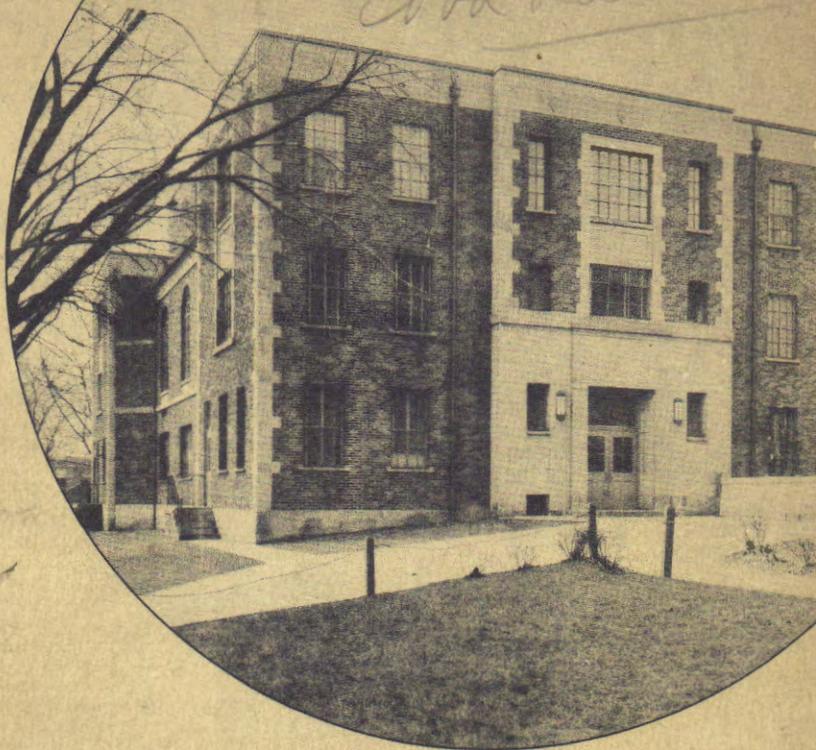


*Edna Larson*  
Edna Larson



# UNIVERSITY OF AKRON

ANNUAL CATALOG

1940-41

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Cover design by Mark Downing '41; cover photograph of the new Student Building by Fred Tambling '41.



## THE UNIVERSITY CALENDAR

1940

- JANUARY 2, TUESDAY .....Classes resumed.
- JANUARY 8-20 .....Advance classification for day session.
- JANUARY 18, THURSDAY .....Founders Day.
- JANUARY 22-27 INCLUSIVE .....Semester final examinations for day and evening sessions.
- JANUARY 25-27 INCLUSIVE .....Final examinations for Division B in co-operative engineering.
- JANUARY 26, 27, 29 .....Registration and classification of entering students.  
FRIDAY, SATURDAY, MONDAY
- JANUARY 30 AND 31 .....Examinations for admission, day and evening sessions.  
TUESDAY AND WEDNESDAY
- FEBRUARY 1, 2, 3 .....Final classification of students in day session.  
THURSDAY, FRIDAY AND SATURDAY
- FEBRUARY 2 AND 3 .....Registration and classification for evening sessions.  
FRIDAY AND SATURDAY, DAY AND EVENING
- FEBRUARY 5, MONDAY .....Classes for day and evening sessions begin. (Division A in co-operative engineering.)
- FEBRUARY 22, THURSDAY .....Washington's Birthday—a holiday.
- MARCH 28, 29, 30 .....Final examinations for Division A in co-operative engineering.  
THURSDAY, FRIDAY, SATURDAY
- APRIL 1-6 INCLUSIVE .....Spring recess.  
MONDAY TO SATURDAY
- APRIL 8, MONDAY .....Classes resumed in day and evening sessions and for Division B in co-operative engineering.
- MAY 11, SATURDAY .....Examinations for candidates for graduate degrees with major or minor in psychology.
- MAY 16, THURSDAY .....R. O. T. C. Annual Inspection.
- MAY 18, SATURDAY .....Examinations for candidates for graduate degrees with major or minor in education.  
Qualifying examination for prospective teachers.
- MAY 27, 28, JUNE 1, 5, 6 .....Semester final examinations for evening session.  
MONDAY, TUESDAY, SATURDAY, WEDNESDAY, THURSDAY
- MAY 29, WEDNESDAY .....May Day.
- MAY 30, THURSDAY .....Memorial Day.

- MAY 31, JUNE 1, JUNE 3-8 IN-  
CLUSIVE .....Semester final examinations in day session.
- JUNE 6-8 INCLUSIVE .....Final examinations for Division B in co-operative  
THURSDAY, FRIDAY, SATURDAY engineering.
- JUNE 9, SUNDAY .....Baccalaureate Service.
- JUNE 11, TUESDAY .....Commencement.
- JUNE 14, FRIDAY .....Examinations for admission.
- JUNE 17, MONDAY .....Registration for summer session.
- JUNE 18, TUESDAY .....Summer session begins.
- JULY 18 AND 19 .....Examinations for candidates for graduate de-  
THURSDAY AND FRIDAY grees.
- JULY 26, FRIDAY .....Summer session closes.
- AUGUST 19, MONDAY, TO NOON,  
SEPTEMBER 7 .....Registration and classification of entering stu-  
dents.
- SEPTEMBER 9-12 INCLUSIVE .....Freshman Week.  
MONDAY, 10 A. M. TO  
THURSDAY
- SEPTEMBER 12, 13 AND 14 .....Registration and classification for day session.  
THURSDAY, FRIDAY, AND (Divisions A and B in co-operative engineer-  
SATURDAY UNTIL NOON ing.)
- SEPTEMBER 16 AND 17 .....Examinations for admission, evening session.  
MONDAY AND TUESDAY,  
7:00 P. M.
- SEPTEMBER 20 AND 21 .....Registration and classification for evening ses-  
FRIDAY, 5:00-9:00 P. M. sion.  
SATURDAY, 1:00-9:00 P. M.
- SEPTEMBER 16, MONDAY .....Classes in day session begin. (Division A in co-  
operative engineering.)
- SEPTEMBER 23, MONDAY .....Classes in evening session begin.
- NOVEMBER 7-9 INCLUSIVE .....Final examinations for Division A in co-opera-  
THURSDAY TO SATURDAY tive engineering.
- NOVEMBER 11, MONDAY .....Final classification for Division B in co-operative  
engineering; classes begin.
- NOVEMBER 21-23 INCLUSIVE .....Thanksgiving recess.  
THURSDAY TO SATURDAY
- DECEMBER 10, TUESDAY .....Qualifying examinations for prospective teachers.
- DECEMBER 23-JANUARY 4 IN-  
CLUSIVE .....Christmas vacation.

1941

- JANUARY 6, MONDAY .....Classes resumed.
- JANUARY 6-18 INCLUSIVE .....Advance classification for day session.
- JANUARY 18, SATURDAY .....Founders Day.
- JANUARY 20-25 INCLUSIVE .....Semester final examinations for day and evening sessions.
- JANUARY 23, 24, 25 .....Final examinations for Division B in co-operative engineering.
- JANUARY 24, 25, 27 .....Registration and classification of entering students.  
FRIDAY, SATURDAY, AND  
MONDAY
- JANUARY 28 AND 29 .....Examinations for admission.  
TUESDAY AND WEDNESDAY  
9:00-4:00, DAY SESSION  
7:00-10:00 P. M., EVENING  
SESSION
- JANUARY 30, 31, FEBRUARY 1.....Final classification of students in day session.  
THURSDAY, FRIDAY, AND  
SATURDAY UNTIL NOON
- JANUARY 31 AND FEBRUARY 1.....Registration and classification for evening session.  
FRIDAY, 5:00-9:00 P. M.  
SATURDAY, 1:00-9:00 P. M.
- FEBRUARY 3, MONDAY .....Classes for day and evening sessions begin. (Division A in co-operative engineering.)
- FEBRUARY 22, SATURDAY .....Washington's Birthday—a holiday.
- MARCH 27, 28, 29 .....Final examinations for Division A in co-operative engineering.
- MARCH 31-APRIL 5 INCLUSIVE.....Spring recess.  
MONDAY TO SATURDAY
- APRIL 7, MONDAY .....Classes resumed in day and evening sessions and for Division B in co-operative engineering.
- MAY 10, SATURDAY .....Examinations for candidates for graduate degrees with major or minor in psychology.
- MAY 17, SATURDAY .....Examinations for candidates for graduate degrees with major or minor in education.
- MAY 17, SATURDAY .....Qualifying examination for prospective teachers.
- MAY 26-29 INCLUSIVE AND  
MAY 31 .....Semester final examinations for evening session.
- MAY 30, FRIDAY .....Memorial Day.
- MAY 31, JUNE 2-7 INCLUSIVE .....Semester final examinations in day session.
- JUNE 5-7 INCLUSIVE .....Final examinations for Division B in co-operative engineering.  
THURSDAY, FRIDAY AND  
SATURDAY
- JUNE 8, SUNDAY .....Baccalaureate Service.
- JUNE 10, TUESDAY .....Commencement.
- JUNE 13, FRIDAY .....Examinations for admission.
- JUNE 16, MONDAY .....Registration for summer session.
- JUNE 17, TUESDAY .....Summer session begins.
- JULY 25, FRIDAY .....Summer session closes.



## UNIVERSITY FACULTY AND ASSISTANTS 1939-40

*Note: The dates in parentheses indicate the beginning of service at Buchtel College or the University of Akron; unless otherwise stated, service began in the month of September.*

- HEZZLETON E. SIMMONS, *President of the University* (1910)  
B.S., Buchtel College; M.S., University of Pennsylvania; D.Sc., College of Wooster;  
LL.D., University of Toledo.
- PAUL ACQUARONE, *Associate Professor of Botany and Geology* (1931)  
B.S., Pennsylvania State College; Ph.D., Johns Hopkins, 1929.
- JOHN ADENDORFF, *Professor of Industrial Engineering* (1929)  
M.E., Cornell University, 1907.
- \*UDO ALBRECHT, *Instructor in Modern Languages* (1931)  
B.A., University of Akron; M.A., Western Reserve University, 1937.
- DAVID E. ANDERSON, *Director of City Testing Laboratory and Assistant Professor of Chemistry* (1923)  
A.B., Augustana College; M.S., University of Chicago, 1923.
- FREDERIC E. AYER, *Dean of the College of Engineering* (1914)  
C.E., Lafayette College, 1900.
- ROBERT W. BAILEY, *Instructor in Finance and Statistics* (1938)  
B.A., DePauw University; M.A., Northwestern University, 1935.
- MRS. JANE S. BARNHARDT, *Associate Professor of Art* (June, 1923)  
B.E., M.Ed. 1930, University of Akron.
- HELEN C. BATTRICK, *Adviser of Women and Assistant Professor of Social Sciences* (1937)  
A.B., Ohio University; A.M., Columbia University, 1929.
- HARRY A. BENDER, *Associate Professor of Mathematics* (1928)  
A.B., Ohio University; A.M., Ph.D. 1923, University of Illinois.
- MORTON W. BLOOMFIELD, *Instructor in English* (1939)  
B.A., M.A., McGill University; Ph.D., University of Wisconsin, 1938.
- MAXWELL P. BOGGS, *Treasurer of the University* (March, 1927)  
A.B., Muskingum College, 1924.
- WILLIAM E. BROWN, *Instructor in Military Science and Tactics* (December, 1936)  
Staff Sergeant, Infantry, U.S.A.
- CHARLES BULGER, *Dean of Graduate Study, Dean of Buchtel College of Liberal Arts, and Hilton Professor of Modern Languages* (February, 1910)  
Ph.B., Buchtel College; A.M., Ph.D. 1925, University of Wisconsin.
- JOHN BULGER, *Professor of Structural Engineering* (1918)  
B.C.E., Ohio State University, 1918.
- RENA NANCY CABLE, *Assistant Professor of Art* (1927)  
B.E., M.Ed. 1931, University of Akron.
- JAMES M. CAMPBELL, *Instructor in English* (part-time) (1933)  
B.A., University of Akron; M.A., Western Reserve University, 1938.
- WALTER A. COOK, *Buchtel Professor of Chemistry* (1926)  
B.A., M.A., Ph.D. 1924, University of Cincinnati.
- RAYMOND D. COOL, *Assistant Professor of Chemistry* (1934)  
B.S., Bridgewater College; M.S., Ph.D. 1928, University of Virginia.
- DAVID H. COWLES, *Professor of Military Science and Tactics* (1939)  
B.S., U. S. Military Academy, 1911. Lieutenant Colonel, Infantry, U. S. A.
- HOWARD I. CRAMER, *Assistant Professor of Chemistry* (1933)  
B.S., University of Akron; M.S., Ph.D. 1929, University of Wisconsin.
- MRS. OTA THOMAS CURRY, *Instructor in Speech* (1939)  
B.A., M.A. 1936, State University of Iowa.
- EARL H. DAVIS, *Instructor in Accounting* (1937)  
B.A., University of Akron; M.A., Northwestern University, 1938.
- HARMON O. DE GRAFF, *Professor of Sociology* (1930)  
B.A., M.A. State University of Iowa; Ph.D., University of Chicago, 1926.
- HJALMER W. DISTAD, *Associate Professor of Elementary Education* (1934)  
B.S.Ed., M.A., Ph.D. 1926, University of Minnesota.

\*Resigned June 30, 1940.

- OTIS W. DOUGLAS, JR., *Assistant Coach of Athletics, and Assistant Professor of Physical Education* (1939)  
B.S., William and Mary College, 1934.
- HOWARD M. DOUTT, *Professor of Secretarial Science* (1926)  
B.A., University of Akron; A.M., University of Chicago, 1934.
- THOMAS M. DOWLER, *Coach of Athletics, and Assistant Professor of Physical Education* (1939)  
A.B., Colgate University, 1931.
- DALLAS L. DOWNING, *Assistant Professor of Vocational Education* (1937)  
A.B., Indiana State Teachers College; A.M., Columbia University, 1928.
- ROSS C. DURST, *Professor of Civil Engineering* (1917)  
B.S.C.E., C.E. 1922, Ohio Northern University.
- ELMER ENDE, *Assistant Professor of Music* (1930)  
B.Mus., American Conservatory of Music, Chicago; M.A., Ohio State University, 1930.
- HOWARD R. EVANS, *Dean of the College of Education and Professor of School Administration; Director of Introductory Course in Hygiene and Physical Education* (1929)  
A.B., Indiana State Teachers College; M.A., Columbia University; Ph.D., Northwestern University, 1930.
- MARGARET F. FANNING, *Assistant Professor of Modern Languages* (1927)  
B.A., University of Akron; A.M., Radcliffe College, 1926.
- ELDORA FLINT, *Assistant Professor of Secretarial Science* (1929)  
B.Ed., University of Akron; M.S.Ed., Syracuse University, 1935.
- CARROLL W. FORD, *Assistant Professor of Economics* (1936)  
A.B., Ph.D. 1936, Cornell University.
- ROY G. FORNWALT, *Assistant Professor of Vocational Education* (February 15, 1940)  
B.Ed., University of Akron, 1936.
- HARRY K. FOSTER, *Instructor in Education* (1939)  
B.S., Bates College; M.A., University of Maine; Ph.D., State University of Iowa, 1939.
- OMER R. FOUTS, *Assistant Professor of Physics* (1926)  
A.B., Wittenberg College; A.M., Ohio State University, 1925.
- ROLLAND D. FOX, *Associate Professor of Bacteriology* (part-time) (1921)  
B.S., M.S. 1923, University of Akron.
- FREDERICK A. FUNKHOUSER, *Special Teacher of Violin* (1939)  
Cleveland, Ohio.
- DONFRED H. GARDNER, *Dean of Students and Professor of History* (1924)  
A.B., A.M. 1923, Princeton University.
- WALTER A. GILMOUR, *Professor of Co-ordination* (1922)  
B.S.C.E., Norwich University, 1914.
- \*JAMES W. GLENNEN, *Instructor in Modern Languages* (1934)  
B.A., University of Akron; A.M., Western Reserve University, 1934.
- DWIGHT E. GRAY, *Assistant Professor of Physics; Director of Introductory Course in Natural Science* (1932)  
A.B., Muskingum College; A.M., Ph.D. 1932, Ohio State University.
- FRED S. GRIFFIN, *Professor of Mechanical Engineering* (1921)  
M.E., Ohio State University, 1911.
- \*JAMES M. GRIMES, *Instructor in History* (1936)  
A.B., M.A. 1933, University of North Carolina.
- EUGENE GEORGE HAAS, *Assistant Professor of Chemistry* (January, 1929)  
B.S., University of Akron; M.S., University of Toronto; Ph.D., University of Pittsburgh, 1935.
- HARLAN W. HAMILTON, *Assistant Professor of English* (1937)  
A.B., Oberlin College; M.A., Columbia University; Ph.D., Cornell University, 1934.
- †LOUIS F. HAMPEL, *Assistant Professor of Commerce and Business Administration* (February, 1933)  
B.S. in Commerce, University of Akron; M.B.A., Northwestern University, 1931.
- C. ARNOLD HANSON, *Acting Adviser of Students* (first semester); *Assistant to the Director of Adult Education, and part-time Instructor in Social Sciences* (February 1, 1940)  
B.A., University of Akron, 1939.
- LESLIE P. HARDY, *Director of Adult Education, and Director of Athletics* (1934)  
B.S.Ed., Kent State University; M.S.Ed., University of Akron, 1935.

\*On leave 1939-40.

†On leave 1938-39 and 1939-40.

- GEORGE L. HAYES, *Professor of Psychology* (1921)  
Ph.B., Ohio University; A.M., Ph.D. 1921, University of Pittsburgh.
- THOMAS C. HILLIARD, *Assistant Professor of Accounting* (1935)  
A.B., Nebraska State Teachers College; M.A., University of Nebraska, 1935.
- GEORGE R. HILTON, *Instructor in Modern Languages* (1939)  
B.A., M.A. 1930, University of Minnesota.
- ORVILLE A. HITCHCOCK, *Professor of Speech* (1937)  
A.B., Pennsylvania State College; M.A., Ph.D. 1936, State University of Iowa.
- FRED F. HOUSEHOLDER, *Professor of Physics, and Chairman of the Division of Natural Science* (1918)  
B.A., M.A. 1916, University of Wisconsin.
- E. VICKERY HUBBARD, *Instructor in Physical Education* (1939)  
B.S., University of Wisconsin, 1932.
- DONATO INTERNOSCIA, *Assistant Professor of Modern Languages* (1938)  
B.A., Broadview College; M.A., Ph.D. 1938, Northwestern University.
- EDGAR P. JONES, *Assistant Professor of Biology* (1932)  
B.S., M.S., Ph.D. 1932, University of Pittsburgh.
- JOHN L. JONES, *Ainsworth Professor of Mathematics* (February, 1920)  
Ph.B., Lafayette College; M.A., Ph.D. 1911, Yale University.
- DON A. KEISTER, *Assistant Professor of English and Director of the Introductory Course in the Humanities* (1931)  
B.A., A.M. 1933, University of Akron.
- CLARA M. KEMLER, *Associate Professor of Primary-Elementary Education* (1928)  
B.A., M.A. 1926, Wittenberg College.
- BLAISDELL C. KENNON, *Assistant Professor of Military Science and Tactics* (1937)  
Major, Infantry, U.S.A.
- DAVID KING, *Assistant Professor of Political Science* (1927)  
A.B., Maryville College; A.M., University of Chicago, 1925.
- CHARLES M. KNIGHT, *Professor Emeritus of Chemistry*  
A.M., Tufts College; D.Sc., Buchtel College, 1897.
- WALTER C. KRAATZ, *Professor of Biology* (1924)  
B.A., University of Wisconsin; M.A., Ph.D. 1923, Ohio State University.
- EMERY L. KUHNES, *Professor of Education* (1923)  
B.S., Upper Iowa University; Pd.M., Ph.D. 1915, New York University.
- EBBA LARSON, *Assistant Registrar* (August, 1926)  
Attended the University of Akron.
- ELIZABETH A. LATHROP, *Assistant Professor of Home Economics* (1927)  
B.S., M.A. 1927, Columbia University.
- WARREN W. LEIGH, *Professor of Commerce and Business Administration* (1926)  
A.B., University of Utah; M.B.A., Ph.D. 1936, Northwestern University.
- MISS WILL LIPSCOMBE, *Assistant Professor of Mathematics* (1921)  
B.S., Florida State College; M.S., Ohio State University, 1926.
- MABEL LOCKE, *Assistant Professor of Physical Education* (1936)  
B.S.Ed., Northwestern University; M.S., University of Wisconsin, 1936.
- PHIL LOFINK, *Instructor in Military Science and Tactics* (1935)  
Sergeant, Infantry, U.S.A.
- HAROLD T. MCKEE, *Assistant Professor of Business Administration* (1929)  
B.S., M.A. 1929, University of Pittsburgh.
- AUSTIN L. MOORE, *Assistant Professor of History* (1936)  
A.B., Oberlin College; A.M., Ph.D. 1938, Columbia University.
- JAY L. O'HARA, *Professor of Economics and Chairman of Division of Social Sciences* (January 1, 1934)  
A.B., University of Michigan; Ph.D., University of Minnesota, 1927.
- RAYMOND B. PEASE, *Professor of English* (1921)  
B.A., University of Wisconsin; A.M., Harvard University; Ph.D., University of Wisconsin, 1921.
- MRS. RUTH PUTMAN, *Instructor in English* (1934)  
A.B., Howard College; M.A., Western Reserve University, 1938.

- \*MRS. MAXINE DYE RABE, *Assistant Professor of Speech* (1930)  
A.B., Penn College; M.A., University of Wisconsin, 1930.
- RUTH MARGUERITE RAW, *Assistant Professor of English in the College of Engineering* (1929)  
A.B., A. M., Hiram College; A.M., Columbia University, 1924.
- EVAN J. REED, *Instructor in Business Law* (part-time) (1937)  
A.B., J.D. 1933, University of Michigan.
- KATHARINE M. REED, *Associate Professor of Modern Languages* (1918)  
B.A., Newcomb College; M.A., Tulane University, 1903.
- GENEVIEVE RIDER, *Assistant Professor of Public School Music* (1928)  
B.M.Ed., Northwestern University; M.A., Western Reserve University, 1935.
- HAROLD O. RIED, *Assistant Professor of Education* (1938)  
A.B., Nebraska Wesleyan University; A.M., Ph.D. 1938, University of Nebraska.
- EDGAR C. ROBERTS, *Assistant Professor of English* (1926)  
B.S.Ed., M.A. 1924, Ohio State University.
- ROLAND G. RUPPENTHAL, *Instructor in History* (1939)  
B.S., M.A., Ph.D. 1939, University of Wisconsin.
- NEWTON OWEN SAPPINGTON, *Professor of History* (1932)  
A.B., Piedmont College; M.A., University of North Carolina; Ph.D., University of Wisconsin, 1932.
- ERNEST F. SCHAEFER, *Assistant Professor of Vocational Education (Employee Training in Industry)* (1921)  
B.E.M., Ohio State University, 1918.
- RICHARD H. SCHMIDT, *Registrar* (April, 1918)  
A.B., Wesleyan University; M.A., Columbia University, 1915.
- FREDERICK S. SEFTON, *Professor of Physical Education* (1915)  
B.S., Colgate; M.Ed., Harvard University, 1925.
- SAMUEL SELBY, *Associate Professor of Mathematics* (1927)  
A.B., A.M., University of Manitoba; Ph.D., University of Chicago, 1929.
- MRS. LUCY T. SELF, *Instructor in Secretarial Science* (February, 1933)  
A.B., Ohio Wesleyan University, 1920.
- †PHILIP S. SHERMAN, *Adviser of Men and Instructor in Economics* (1936)  
B.A., University of Akron, 1936.
- ROY V. SHERMAN, *Associate Professor of Political Science; Director of Introductory Course in Social Science* (1929)  
A.B., A.M., Ph.D. 1927, State University of Iowa.
- KENNETH F. SIBILA, *Instructor in Electrical Engineering* (February, 1940)  
B.S.E.E., M.S.E.E. 1937, Case School of Applied Science.
- HARRY A. SMITH, *Assistant Professor of Physical Education* (1928)  
B.E., M.Ed. 1929, University of Akron.
- PAUL C. SMITH, *Assistant Professor of Electrical Engineering* (1925)  
B.S.E.E., Purdue University, 1917.
- R. J. SPALDING, *Instructor in Vocational Education in the field of Teacher Training* (May, 1938)  
B.A., Illinois State Normal; M.A., Western Reserve University, 1938.
- ALBERT I. SPANTON, *Dean Emeritus of Buchtel College of Liberal Arts, Vice President of the Faculty, and Pierce Professor of English* (1900)  
Ph.B., Buchtel College; A.M., Harvard University, 1905; Litt.D., University of Akron, 1938.
- CHARLES NEIL STARR, *Instructor in Music* (1938)  
B.S., University of Cincinnati; M.A., Northwestern University, 1938.
- JOHN F. STEIN, *Special Teacher of Voice* (1933)  
Private instruction with Herbert Witherspoon, Enrico Rosati, Graham Reed of Chicago Musical College, and Maria Kurenko.
- MERLE A. STONEMAN, *Assistant Professor of Education* (1938)  
A.B., Central College; A.M., Ph.D. 1938, University of Nebraska.
- †JOSEPH R. STROBEL, *Assistant Professor of Vocational Education (Teacher Improvement for Trades and Industries)* (1936)  
B.S., M.A. 1936, Western Reserve University.
- ROBERT W. SUMMERSGILL, *Instructor in Secretarial Science* (1937)  
B.S. in Commerce, Grove City College; Litt.M., University of Pittsburgh, 1939.

\*On leave 1939-40.

†On leave first semester 1939-40.

‡Resigned February 15, 1940.

- MILDRED L. SWIFT, *Professor of Home Economics* (1936)  
B.S., Russell Sage College; M.S., Cornell University, 1930.
- AUDRA TENNEY, *Assistant Professor of Secretarial Science* (1926)  
B.A., University of Akron; M.A., New York University, 1936.
- ROBERT E. THACKABERRY, *Instructor in English* (1938)  
B.A., M.A., Ph.D. 1937, State University of Iowa.
- MRS. HELEN SAUNDERS THACKABERRY, *Instructor in English* (February, 1940)  
A.B., M.A. 1937, State University of Iowa.
- †RAYBURN D. TOUSLEY, *Assistant Professor of Business Administration* (1937)  
B.S. Bus. Adm., A.M. 1933, University of Missouri.
- CLARENCE R. UPP, *Associate Professor of Mechanical Engineering* (1925)  
M.E., Ohio State University, 1910.
- ULYSSES S. VANCE, *University Editor* (1923)  
A.B., State University of Iowa, 1923.
- ‡DONALD S. VARIAN, *Instructor in Speech* (1934)  
A.B., A.M. 1934, University of Wisconsin.
- RAYMOND E. VERMETTE, *Assistant Professor of Military Science and Tactics* (1937)  
Major, Infantry, U.S.A.
- \*MRS. PHYLLIS HACKETT WALKER, *Part-time Instructor in English* (February, 1939)  
B.A., University of Akron; M.A., Western Reserve University, 1938.
- JOHN T. WALTHER, *Professor of Electrical Engineering* (1920)  
B.S.E.E., University of Michigan, 1909.
- MRS. BETTY M. WETTSTYNE, *Part-time Instructor in Secretarial Science* (1939)  
B.S. Sec. Sci., University of Akron, 1939.
- MRS. FLORENCE N. WHITNEY, *Instructor in English* (1936)  
A.B., Dakota Wesleyan; A.M., Columbia University, 1913.
- WILLIAM W. WIARD, JR., *Instructor in Business Administration* (1939)  
B.S., M.S. 1937, Syracuse University.
- RENA WILLS, *Special Teacher of Piano* (1934)  
New England Conservatory, Boston, Mass., three years; Leipzig, Germany, three years.
- EARL R. WILSON, *Assistant Professor of Engineering Drawing* (1929)  
B.M.E., Ohio State University, 1916.
- §CARY C. WOOD, *Messenger Professor of Philosophy* (1928)  
B.S., Ohio University; A.M., Columbia University; Ph.D., University of Cincinnati, 1928.
- ARTHUR M. YOUNG, *Professor of Latin and Greek, and Chairman of the Division of Humanities* (1930)  
A.B., A.M., Ph.D. 1930, Harvard University.
- PAUL MAXWELL ZEIS, *Instructor in Political Science* (1938)  
A.B., University of Akron; A.M., Ph.D. 1936, Princeton University.

## LIBRARY STAFF

- JOSEPHINE A. CUSHMAN, *Librarian* (August, 1919)  
Ph.B., University of Akron; B.L.S., University of Illinois, 1919.
- GENIE J. PRESTON, *Cataloger* (1939)  
A.B., Northwestern University; A.M., University of Illinois, 1936.
- MARY GRACE HARRINGTON, *Circulation Librarian* (1933)  
A.B., University of Akron; A.B.L.S., University of Michigan, 1939.
- ELSIE L. HENNIGAR, *Reference Assistant* (1936)  
A.B., University of Michigan; B.S.L.S., University of Illinois, 1936.
- MRS. DOROTHY HAMLIN MCRREE, *Assistant in the General College Room* (February, 1936)  
A.B., University of Akron, 1928.
- \*LOTTIE-MAY STRAKA, *Assistant in Circulation Department* (1938)  
A.B., University of Cincinnati; B.S.L.S., University of Illinois, 1938.
- MRS. VIRGINIA ZINKHANN BROWN, *Assistant in the General College Room* (December, 1938)  
A.B., University of Akron, 1938.

†On leave 1939-40.

‡On leave 1940-41.

§Retired June 30, 1940.

\*Resigned January, 1940.

- LOIS E. LIEBEGOTT, *Order Assistant* (1939)  
A.B., Wittenberg College; B.S.L.S., Carnegie Institute of Technology, 1939.
- GERTRUDE M. CAHILL, *Assistant in the Upper College Room* (1939)  
A.B., University of Akron, 1939.

## GRADUATE ASSISTANTS

- JOSEPH G. BALASCO, *in the Department of Physics*  
B.S., University of Akron, 1939.
- SAMUEL M. CAPLIN, *in the Department of Biology*  
B.S., University of Akron, 1939.
- THEODORE T. DUKE, *in the Division of Humanities, and in Freshman English*  
B.A., University of Akron, 1939.
- JOSEPH HERSHKOWITZ, *in the Department of Biology*  
B.A., University of Wisconsin; M.S., University of Pennsylvania, 1939.
- CHARLES HOSKIN, *in the Department of Physics*  
B.A., Hiram College, 1939.
- PRESTON KIDDER, *in the Department of Speech*  
A.B., Hiram College; M.A., Ohio University, 1939.
- ROBERT L. LEMMON, *in the Department of Physics*  
B.S., University of Akron, 1939.

## FELLOWS IN CHEMISTRY

- FREDERIC C. SCHAEFER, *The Goodyear Tire and Rubber Company*  
B.S., Syracuse University.
- ROBERT L. LETOURNEAU, *The Firestone Tire and Rubber Company*  
B.S., Wheaton College (Illinois).

## UNIVERSITY HEALTH SERVICE

- WILBUR C. ROBERT, M.D. .... *University Physician*
- MRS. EMMA HENRY ..... *Nurse*

## THE DANIEL GUGGENHEIM AIRSHIP INSTITUTE

- THEODOR TROLLER, *Director*  
D.E., Aachen Institute of Technology, Germany.
- THEODOR VON KARMAN, D.E., *Technical Consultant*  
On the staff of the California Institute of Technology, Pasadena, California.

## PART-TIME INSTRUCTIONAL STAFF

(Not on the regular Day Session staff)

## SUMMER SESSION—1939

## Visiting Lecturers (part-time)

- DR. HARRY J. BAKER ..... *Guidance*  
Detroit Board of Education.
- DR. WILLARD C. OLSON ..... *Guidance*  
Professor of Education and Director of the Child Laboratory, The University of Michigan.
- DR. HUGH V. PERKINS ..... *Guidance*  
Principal, Cleveland Heights School, Cleveland, Ohio.

## Others—Six Weeks Session

- CARL D. COFFEEN, B.S., M.A. .... *School Management*  
Superintendent of Summit County Schools.
- LILLIAN J. DANDO, B.S.ED. .... *Nursery School Assistant*
- MRS. MILDRED R. ETTLING, B.ED., M.A. .... *Director of Kindergarten*  
Teacher in Nursery Schools at Fairlawn and Portage Path Schools.
- L. L. EVERETT, B.S. .... *School Management*  
Barberton Public Schools.
- FRANCES EVERHART, B.S.ED. .... *Activity School*  
Teacher at Lomond School, Shaker Heights, Cleveland, Ohio.

REBECCA FINEBERG, M.MUS. ....	<i>Dalcroze Eurythmics</i>
Instructor at Wayne University, Detroit, Michigan.	
ESSIE J. FISHER, B.C.S. ....	<i>Handwriting Course</i>
Zaner Blosser School, Columbus, Ohio.	
EMILY GIBSON, A.B. ....	<i>Activity School</i>
Akron Public Schools.	
MRS. GENEVIEVE HAYNES, B.S. ....	<i>Director of Nursery School</i>
Western Reserve University.	
MRS. ALVIS C. STEVENS, A.B., A.M. ....	<i>Remedial Reading</i>
Cleveland Board of Education.	
HILDA STOCKER, B.S.ED. ....	<i>Activity School</i>
Mayfield Heights, Cleveland, Ohio.	
MRS. HELEN TROESCH, A.B., A.M. ....	<i>Play Production</i>
Cleveland College, Cleveland, Ohio.	
LEWIS C. TURNER, A.B., M.A. ....	<i>Business Men's Public Speaking</i>
Executive Assistant, Adult Education, Akron Public Schools.	

## Critic Teachers—1939 Summer Session

HONOR M. AULT, B.A., M.A. ....	<i>South High</i>
RUTH CHAMBERLIN .....	<i>Barberton</i>
GRACE DEAN, A.B. ....	<i>South High</i>
L. L. EVERETT, B.S. ....	<i>Barberton</i>
MRS. CORA FENNING, A.B., M.A. ....	<i>South High</i>
GEORGE KIDDER, A.B., M.ED. ....	<i>South High</i>
NORA SANTROCK, B.ED. ....	<i>Barberton</i>
ANNA SIMPSON, B.E., M.A. ....	<i>South High</i>
KATHRYN E. STEPHEN, A.B. ....	<i>South High</i>
GUY SWARTZEL, A.B., M.A. ....	<i>South High</i>

## 1939-40 EVENING SESSION

JAMES R. BERRY .....	<i>Accounting</i>
B.S.Bus.Adm., University of Akron, 1939.	
RALPH C. BUSBEY .....	<i>Advertising</i>
Advertising and Merchandising Counselor, and Manager the Hooven Letter Service, Akron.	
DONN T. CARNEY .....	<i>Credits and Collections</i>
A.B., University of Akron, 1929.	
JEANNE E. COHEN .....	<i>Business English</i>
B.S.Sec.Sci., University of Akron, 1935.	
WALTER J. CONLEY .....	<i>Assistant in Handcrafts</i>
Akron Public Schools, Vocational Education.	
ROBERT S. CURL .....	<i>Heating and Ventilating</i>
B.S. Chem.Eng'g., Case School of Applied Science, 1932.	
BEATRICE M. EARLEY .....	<i>Typewriting</i>
B.S.Ed., University of Akron, 1938.	
WILLIS H. EDMUND .....	<i>Municipal Recreation</i>
B.S., Ohio State University; M.A., New York University, 1932.	
ELLA FACCIUTO .....	<i>Shorthand</i>
B.Ed., University of Akron, 1937.	
L. ADRIAN FRENCH .....	<i>Commercial Art</i>
A.B., University of Akron, 1927; Graduate of Chicago Art Institute.	
CLEO FUNK .....	<i>Office Methods</i>
B.S.Sec.Sci., University of Akron, 1934.	

FRED H. GLENNY	.....	<i>Conservation</i>
B.A., University of Akron, 1936.		
HUBERT GROVE	.....	<i>Metallurgy</i>
B.M.E., M.S. 1932, Ohio State University.		
CARL HAMBURGER	.....	<i>Handcrafts in Elementary Schools</i>
B.S., Kent State University; M.S., Western Reserve University, 1939.		
FLOYD HERSH	.....	<i>Accounting</i>
C.P.A.; Firestone Tire and Rubber Company.		
GEORGE E. HILE	.....	<i>Accounting</i>
B.S.Bus.Adm., Ohio State University, 1927.		
WILLIAM BOYD HUFF	.....	<i>Architectural Drawing</i>
Certified "Professional Engineer" by Ohio State Board of Registration for Professional Engineers and Surveyors.		
MRS. HAROLD H. KLINGLER	.....	<i>Nutrition</i>
B.S., Alabama College.		
ARTHUR H. KRUSE	.....	<i>Community Organization</i>
A.B., University of Akron; M.A., Syracuse University, 1932.		
JOHN LAMPASONE	.....	<i>Laboratory Assistant in Accounting</i>
B.S.Bus.Adm., University of Akron, 1939.		
MRS. NELLIE M. LEISY	.....	<i>Shorthand</i>
A.B., M.A.Ed. 1935, University of Akron.		
ANDREW D. MACLACHLAN	.....	<i>Engineering Drawing</i>
B.S., M.E., Massachusetts Institute of Technology.		
MARVIN C. MARQUARDT	.....	<i>Laboratory Assistant in Accounting</i>
Class of 1940, University of Akron.		
JOHN R. MEEKS	.....	<i>Traffic Management</i>
Akron Chamber of Commerce.		
ELMER L. NOVOTNY	.....	<i>Figure Drawing</i>
B.S., Western Reserve University; M.A., Kent State University, 1936.		
RALPH J. PERRINE	.....	<i>Metallurgy</i>
M.Eng'g., University of Cincinnati.		
EMMANUEL PIERRET	.....	<i>Civilian Pilot Training (October, 1939)</i>
Eleven years of aviation experience; licensed instructor to teach in aircraft ground school.		
THOMAS M. POWERS	.....	<i>Business Law</i>
A.B., Cornell University; LL.B., Cleveland Law School.		
MRS. WINIFRED SMITH READ	.....	<i>General Foods</i>
B.Ed., University of Akron, 1934.		
MARY RIBLET	.....	<i>Art for the Grades</i>
B.E., Cleveland School of Art.		
EDITH MAE RUKGABAR	.....	<i>Speech</i>
B.L., Northwestern University, 1927.		
MRS. RUTH D. SAMSON	.....	<i>Literature for the Upper Grades</i>
M.A.Ed., University of Akron, 1926.		
ANTON G. SIEFRIED	.....	<i>Assistant in Industrial Engineering</i>
E.E., University of Akron, 1931.		
CLARK C. SORENSEN	.....	<i>Personnel Management</i>
A.B., M.C.S. 1937, Dartmouth College.		
ERNEST R. STOTLER	.....	<i>Engineering Drawing</i>
B.S., Bradley Polytechnic Institute; M.A., Columbia University.		
MARY ELIZABETH SULLIVAN	.....	<i>Nutrition</i>
B.S., Rockford College, 1930.		
ERNEST A. TABLER	.....	<i>Mathematics</i>
B.S., Kent State University; M.A., Western Reserve University, 1933.		
GEORGE W. THOMPSON	.....	<i>Race Relations</i>
Association of Colored Community Work, Akron.		
LEWIS C. TURNER	.....	<i>Public Speaking</i>
A.B., Hiram College; M.A., University of Akron, 1929.		
GLADYS M. WELLS	.....	<i>Dalcroze Eurythmics</i>
Certificate, School of Dalcroze Eurythmics.		

### AKRON PUBLIC SCHOOL OFFICERS AND TEACHERS COOPERATING WITH THE COLLEGE OF EDUCATION

RALPH H. WATERHOUSE, B.S. .... *Superintendent of Schools*  
 OTIS C. HATTON, M.A. .... *First Assistant Superintendent*  
 HOWARD R. EVANS, PH.D. .... *Principal, Spicer Demonstration Laboratory School*

### TEACHERS IN SPICER DEMONSTRATION LABORATORY SCHOOL

Mrs. Mary Louise Beverly	Catherine Redinger
Harold F. Foss., B.E. (cadet principal)	Mary Redinger
Sophia Gallets	Eulalie Sauve
Emily Gibson, B.A.	Dorothy Schorle
Mrs. Virginia Gillooly, B.E.	Mrs. Janet Schultz, B.E.
Grace Ion	Mrs. Addie Serfass
Mary J. Kirk	Mrs. Hazel Somerville
Rose Mary Kraus, B.E., M.A.	Mrs. Charlotte Taylor, B.S.M.
Vesta Leight	Fannie Walcott
Mrs. Lucille McConnell	Mrs. Lucille Workman
	Olga Zemlansky, B.E.

### CRITIC TEACHERS

School	School
Rose Ahern, B.E. .... Forest Hill	Elizabeth Kerr, B.E., M.E. .... Rankin
Zeura Allen, B.A. .... West High	Mrs. Florence Killinen .... West High
Roe G. Anderson, B.A. .... Night High	Mrs. Mildred Kreighbaum .... Findley
Florence Babb, B.S.Ed., M.A. .... Central High	Daisy Lower, B.E. .... Kenmore High
Mrs. Doris Pittenger Benson, B.A. .... West High	Mrs. Sylvia MacEachin .... Leggett
Bernhard Berg .... Mason	Ruth Manderbach .... Bryan
Edwin Berglind, Jr., B.S. .... Henry	Gertrude Meyer .... Howe
Mrs. Ercell Bess, A.B., B.M. .... Jackson	Ruth Myers .... Leggett
Mrs. Josephine Brudwick, B.S. .... Night High School	Lydia Oberdeck, B.A., M.A. .... West H.
Harriet Callow, B.S., M.A. .... Hotchkiss	Juliette Parenti, B.A., B.E. .... Garfield High
Annabelle Chalfant, A.B., M.A. .... Central High	Mrs. Florence Porter, B.A., B.E. .... Garfield High
Ruth Chapel .... Bryan	Elsie Quaintance .... Schumacher
Jessie Cherrington, A.B. .... West High	Mrs. Winifred S. Read, B.E. .... Cent. H.
Mrs. Marian Church .... Barber	Harry E. Reed, A.B. .... Buchtel High
Sara Compher, B.A., M.A. .... East High	Emily Roe, B.S.Com., B.S.Ed., M.A. .... South High
Elizabeth Corbett .... Harris	Mrs. Elsa Shafer, B.Ph.Ed., M.Ed. .... Central High
Mrs. Marian Cornell .... Fraunfelder	Mrs. Evelyn Sills .... Ellet
Harriet Crisp, B.A. .... Jennings	Sister Mary Clare, O.P., Ph.D. .... St. Vincent's
Martha Dodge, B.Ed. .... East High	Marjorie Skewes, B.S. .... Garfield High
Clara Eckert .... Mason	Mrs. Lillian Starkey, B.S.Com. .... East High
Anna Mae Flint, B.S. .... Garfield High	Mrs. Adelaide Suloff .... Firestone Park
Mrs. Lulu Frater .... Crouse	Mrs. Angie Theakston, B.E. .... Mason
Frances Gibbs .... Schumacher	Mrs. Bess Tucker, B.A. .... Central High
Mrs. Belle Grensler .... Allen	Mrs. Mabel VanCamp .... Schumacher
Mrs. Grace Hansen, B.E. .... Rankin	Robert White, B.S. .... North High
Mrs. Rose Harris, B.E. .... Henry	Lucy Whitney, Ph.B. .... Findley
Ona Henderson .... Mason	David Zook, Ph.B., M.A. .... South High
Henry Horst, Ph.B., M.A.Ed. .... West High	

### OUTSIDE OF AKRON

Paul R. Howell .... Orrville	Donald D. Kick, B.A. .... Springfield
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## COMMITTEES OF THE FACULTY FOR 1939-40

## EXECUTIVE

Simmons, Ayer, C. Bulger, Evans, Gardner, Hardy, Weeks (Secretary)

## COMMITTEE OF DEANS

C. Bulger, Ayer, Evans

## ADMISSIONS AND ADVANCED STANDING

Schmidt, C. Bulger, Ayer, Evans, Gardner, Hardy

## CLASSIFICATION

<i>Buchtel College of Liberal Arts</i> ....	Registrar, Dean of Buchtel College of Liberal Arts, and Heads of Departments
<i>The College of Engineering</i> .....	Registrar, Dean of the College of Engineering, and Heads of Departments
<i>The College of Education</i> .....	Registrar, Dean of the College of Education, and all members of the College of Education Faculty
<i>The General College</i> .....	Dean of Students, Registrar, and Heads of Departments
<i>The Division of Adult Education</i> ..	Registrar, Director of Adult Education, and Heads of Departments of all Colleges
<i>Graduate Study</i> .....	Registrar, Dean of Graduate Study

## ATHLETICS

Hardy, Leigh, Sefton, Sappington, Dowler

## LIBRARY

Cushman, Spanton, Ayer, C. Bulger, Evans

## UNIVERSITY TEACHING AND TESTING

Evans, Gilmour, R. V. Sherman, Gardner, Gray, Hamilton, Ried

## DISCIPLINE

Simmons, C. Bulger, Ayer, Evans, (Members ex-officio: Gardner, President of the Student Council, President of the Women's League)

## EXTRA-CURRICULAR ACTIVITIES

Gardner, Vance, Hardy, Rogers, Varian, Starr, Battrick, P. Sherman, President of the Student Council, President of the Women's League, and President of the Evening Session Senate

## ASSEMBLY

Battrick, P. Sherman, Hardy, Hitchcock, Starr, C. Rogers, President of the Student Body, President of the Women's League

## ADULT EDUCATION—ADVISORY

Hardy, C. Bulger, Ayer, Evans

## STUDENT LOAN

Boggs, Battrick, P. Sherman

## ASHTON PRIZES

Hitchcock, Boggs, Varian, King

## PIXLEY SCHOLARSHIPS

Schmidt, Hitchcock, Ende, Spanton, Reed

GENERAL INFORMATION
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### HISTORICAL STATEMENT

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 September, 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.

#### PRESIDENTS OF BUCHEL COLLEGE

*S. H. MCCOLESTER, D.D., Litt.D. ....	1872-1878
*E. L. REXFORD, D.D. ....	1878-1880
*ORELLO CONE, D.D. ....	1880-1896
CHARLES M. KNIGHT, Sc.D. (ad interim) .....	1896-1897
*IRA A. PRIEST, D.D. ....	1897-1901
*A. B. CHURCH, D.D., LL.D. ....	1901-1912
PARKE R. KOLBE, Ph.D., LL.D. ....	1913-1914

#### PRESIDENTS OF THE UNIVERSITY OF AKRON

PARKE R. KOLBE, Ph.D., LL.D. ....	1914-1925
GEORGE F. ZOOK, Ph.D., LL.D. ....	1925-1933
HEZZLETON E. SIMMONS, D.Sc., LL.D. ....	1933-

\*Deceased.

### ADMISSION TO THE UNIVERSITY

Students are admitted to the University by high school certificate and the Freshman Week examinations or honorable dismissal from other colleges and universities, or if qualified by reason of maturity and experience and over 21 years of age, as special students not in candidacy for a degree.

For a detailed statement, see under The General College.

### ADMISSION FROM OTHER COLLEGES

Candidates for admission with advanced standing should have transcripts (together with an honorable dismissal) sent directly from the institution last attended to the University Registrar.

For admission, the student must be eligible to re-enter the institution from which he desires to transfer, and must have a satisfactory scholastic record.

In general, 16 credit hours a semester represent a full allowance of credit. Such evaluations and credit allowances are tentative, and depend upon a satisfactory quality of work at the University of Akron. Their validity also depends upon the completion of the course in the standard length of time.

A degree will not be granted a student entering with advanced standing from another college or university unless he spends a full year in residence and completes 32 credit hours of work, three-fourths of which must be done in the college granting the degree. It is expected that the student will do his last year's work at the University of Akron.

### REQUIREMENTS FOR DEGREES

Students on the full-time basis must present 128 semester hours with necessary quality points. Students on the co-operative basis must present 142 semester hours with the necessary quality points.

Candidates for a degree are required to file an application with the Registrar by March 1 of their senior year.

### DEGREE WITH DISTINCTION

Students who have an average grade of 90 per cent, (or a quality point ratio of 3.25) or better over all the work taken during the four undergraduate years shall be graduated with distinction. At least three of the four years of work must be done at the University of Akron. The words "with distinction" shall appear upon the diploma and upon the commencement program.

### EMPLOYMENT FOR STUDENTS

The Office of the Dean of Students serves as a clearing center for employment opportunities which come to the University. Students who need some employment in order to earn money to meet their

expenses should make application at this office and they will be informed of available openings. Students who must earn a large portion or all of their expenses are permitted to carry lighter academic schedules.

#### ACTIVITIES

The University of Akron offers a well-rounded student program of extra-curricular activities through such organizations as the Student Council, Women's League, Y. W. C. .A., The Buchtelite (semi-weekly student newspaper), The Tel-Buch (student yearbook), athletics for men and women, departmental clubs, sororities and fraternities. Participation in this program is facilitated by the Student Building which affords the use of the lounge, cafeteria, dining room, and recreation rooms.

#### INTERCOLLEGIATE ATHLETICS

Intercollegiate sports are under the administration of a Faculty Committee on Athletics appointed by the President of the University.

#### INTRAMURAL SPORTS

All day students carrying eight credit hours or more 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 enrol 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 the treatment of injuries received by athletes while training for, or participating in, intercollegiate sports, unless the treatment is first authorized by the University medical officer for athletes.

#### GYMNASIUM LOCKERS

Gymnasium lockers are obtained by depositing \$1.00 at the office of the Treasurer of the University.

#### THE UNIVERSITY HEALTH SERVICE

To provide for the student body necessary phases of health promotion not included in the field of physical education, the University Health Service has been established. 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 University Physician is in his office in Curtis Cottage one and one-half hours each day, from 11:00 a. m. to 12:30 p. m. A registered nurse is on duty daily.

### MILITARY SCIENCE AND TACTICS

In 1919 the United States Government established at the University of Akron a unit of the Reserve Officers' Training Corps. All men students are required to take Military Science and Tactics unless exempted because of physical disability, age, or other reasons.

### STANDARDS

The University of Akron maintains high academic standards and is accredited by the North Central Association of Colleges and the Ohio College Association. It is a member of the American Council on Education, the Association of American Colleges, the Association of Urban Universities, and the American Association of Teachers Colleges. It is included in the approved list of the Association of American Universities for admission of graduates to graduate and professional schools, and is approved for pre-medical work by the American Medical Association. Its women graduates with approved degrees (requiring at least two years or a minimum of 60 credit hours of non-professional, non-technical work which would be credited toward an A. B. degree) are eligible to membership in the American Association of University Women.

### BUILDINGS AND EQUIPMENT

The University campus lies on Buchtel Avenue at the head of College Street, only a short distance from the business center of the city.

Buildings on the campus include Buchtel Hall, in which are located the administration offices and eight classrooms; Carl F. Kolbe Hall, housing Bierce Library; Knight Chemical Laboratory; Crouse Gymnasium; R.O.T.C. Armory; Curtis Cottage, housing the department of home economics, including laboratories and the University Health Service; Phillips Hall, housing the art department; Olin Hall, at present occupied by the department of biology, with laboratories, and the department of political science; Simmons Hall, housing the departments of commerce, secretarial science, and physics as well as the work of the College of Engineering in classroom and laboratory; and the central heating plant.

The Student Activities Building, first occupied in November, 1939, was constructed at a cost of \$150,000 by means of a loan and grant from the Public Works Administration. It is located on the Carroll Street side of the campus and is 129 feet long and 64 feet wide. On the ground floor, there are a cafeteria, a soda bar, a grill, a private dining room, and a well equipped kitchen. On the next floor above is a room 50 feet by 80 feet which serves a four-fold purpose as lounge, little theatre, auditorium, and dance floor. The stage appointments are complete, with lighting equipment, carpenter shop, and dressing rooms. Other space in the building is occupied by offices of student

publications, meeting and game rooms, bookstore, and ladies' lounge. This building has become the social center of the campus.

Through the courtesy of the Board of Education of the Akron Public Schools, the College of Education occupies a part of the nearby Spicer School building for classroom and office purposes.

The athletic field and stadium are situated about two blocks from the campus.

#### BIERCE LIBRARY

The University Library, known as Bierce Library in recognition of a bequest received from General L. V. Bierce in 1874, occupies Carl F. Kolbe Hall. It contains 52,370 cataloged volumes, 16,000 pamphlets, and a considerable amount of other material (not counted) concerning the history of Buchtel College and the University of Akron, as well as 555 current periodicals, and 910 music recordings.

Departmental libraries are maintained in Olin Hall for the biology department, in Simmons Hall for the departments of engineering and physics, in Phillips Hall for art, and in Curtis Cottage for home economics.

The facilities of Bierce Library are open to the citizens of Akron.

#### THE DANIEL GUGGENHEIM AIRSHIP INSTITUTE

The Guggenheim Foundation for the Promotion of Aeronautics, established in 1926 by the late Daniel Guggenheim, made a gift in October, 1929, to the University of Akron and the California Institute of Technology jointly for the study of lighter-than-air problems. This gift was supplemented by a contribution from the City of Akron, especially for the erection of a suitable building.

The Guggenheim Airship Institute building is located at the northwest corner of the Municipal Airport. The main building, four stories in height, was completed in 1932, and a one-story addition to accommodate a gust tunnel was built in 1936.

On October 19, 1934, the original contract expired, and upon agreement of the parties concerned, control of the institute was transferred to the University of Akron under the directorship of Dr. Theodor Troller. Dr. Theodor von Karman, who had served as Director for the five years, is now Technical Consultant. In connection with the fundamental research carried on at the institute a certain amount of testing is done for industry, for which a charge is made.

#### THE CITY TESTING LABORATORY

The City Testing Laboratory was created January 1, 1914, by a proposal made by the Board of Directors and accepted by the Akron City Council. Until November, 1930, it was known as the Bureau of City Tests. Much of the chemical and physical testing work of the city is done in the laboratory. The laboratory is housed in Simmons Hall and is conveniently close to the testing equipment of the engineering laboratories.

## PRIZES, FELLOWSHIPS, SCHOLARSHIPS, HONORS, AND SPECIAL FUNDS

### THE ASHTON PRIZES

A fund of \$3000 was established in 1887 by Oliver C. Ashton of Bryan, Ohio, endowing the O. C. Ashton Prizes for excellence in reading and speaking. Two oratorical contests are held annually, a General College contest in May and an Upper College contest in January. Three prizes are awarded at each contest, the amounts of the prizes depending upon the income available from the fund.

### 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 who has completed the regular undergraduate curriculum with the highest average grade for the work taken, having carried an average load of 12 credit hours per semester.

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

The Dr. E. B. Foltz Pre-Medical Prize of \$100 is awarded each year to that member of the graduating class who makes the highest average grade in all work taken in the four-year pre-medical course and who plans to enter medical college the following year. The name of the winner is announced at Commencement but the actual award is not made until the winner has enrolled in medical college.

### THE SUMMIT COUNTY HISTORICAL SOCIETY PRIZE

The Summit County Historical Society Prize of \$10.00 is awarded each year to that registered undergraduate student who is enrolled in a course of American History or has taken such a course at the University of Akron, who enters the best essay on a topic concerning the history of Summit County. The object of the contest is to encourage the study of local history. The name of the winner appears on the commencement program.

### FIRESTONE AND GOODYEAR FELLOWSHIPS

Fellowships in the Department of Chemistry are offered by the Firestone Tire and Rubber Company and the Goodyear Tire and Rubber Company for the study of the chemistry and technology of rubber. These fellowships are open to graduates of standard Ameri-

can colleges and universities and are of the value of \$1000 per year, with remission of all University fees.

#### THE OHIO STATE UNIVERSITY GRADUATE SCHOLARSHIP

In the spring of 1935 a number of graduate scholarships were established by the Ohio State University, one to be assigned to each of the Ohio colleges fully accredited by the North Central Association of Colleges and Secondary Schools. The scholarship entitles the student to the exemption of tuition and fees of all kinds except a matriculation fee. Selection is left to the individual colleges.

#### 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 used for the establishment of scholarships in speech, music and literature. The value of the scholarships varies annually to some degree, based upon the income available from the fund.

#### THE PIXLEY SCHOLARSHIPS

In accordance with the terms of the Pixley bequest, there are each semester awards for students of outstanding ability and promise in the fields of literature, music, and speech. To be eligible for one of these awards the student must be enrolled in an upper college or qualified to enter an upper college and must be a major in the department in which the scholarship is awarded, or a divisional major in the humanities division. The awarding of these scholarships is made by a committee of which the Registrar is the chairman. To be eligible for a Pixley scholarship in music a student must have a quality point ratio of at least 2.5 in all work taken; for scholarships in literature or speech a ratio of at least 3 is expected. Applicants for these scholarships should bring their applications to the attention of the chairman of the committee before June 1 for the first semester of the following academic year and before February 1 for the second semester. Re-entering or transfer students must apply on or before September 1 for consideration.

#### THE RUTH DUGAN AERONAUTIC SCHOLARSHIP

One of the accomplishments credited to the Women's Chapter of the National Aeronautic Association is the Ruth Dugan Aeronautic Scholarship of \$100 a year to be awarded to that student who shall be accepted by the scholarship committee of the Akron Women's Chapter upon recommendation by the co-operating advisory committee of the University of Akron. Part of the work included in the course of study will be given at the University of Akron, and the necessary research will be carried on at the Daniel Guggenheim Airship Institute. The scholarship fund first became available for the year 1936-37.

## OTHER SCHOLARSHIPS

During the year 1939-40 a number of organizations contributed money for scholarships at the University. The organizations and the amounts contributed were as indicated below.

The Exchange Club of Akron .....	\$ 50.00
The Akron Panhellenic Association .....	100.00
Pierian .....	50.00
Women's League (Two scholarships of \$25.00 each) .....	50.00

## PHI SIGMA ALPHA HONORARY FRATERNITY

Phi Sigma Alpha is an honorary fraternity founded in 1910 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.

2. A minimum of 108 hours for three and one-half years for those completing the regular four-year course, or of 77 hours for two and one-half years for students who have spent one year at another institution are required.

3. All seniors who have maintained an average grade of not less than 90% (a quality point ratio of 3.25) 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.

4. 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% (a quality point ratio of 3.5) shall be eligible for membership.

5. 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.

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

## PHI CHAPTER OF SIGMA TAU HONORARY FRATERNITY

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 engineering student in the upper college is eligible whose scholastic average for all his previous college work ranks him in the upper third of the combined pre-junior, junior, and senior students.

### SIGMA PI EPSILON HONORARY FRATERNITY

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

### HARRIET PHILLIPS FUND

The Harriet Phillips Fund was created in 1930 by a bequest of \$18,000. The income from this fund is used for the care and maintenance of gifts of paintings, etchings, and other art treasures, together with an Art Library, which was given by Miss Phillips to the University in memory of her family. The building housing the Phillips Art Memorial Collection is known as Phillips Hall, named in honor of the donor and her generous gift to the University.

### LOAN FUNDS

Applications for loans are received at the office of the Dean of Students prior to the opening of each semester, and upon emergencies, during the academic year.

### THE KATHERINE CLAYPOLE LOAN FUND

This fund was 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. The principal of the fund is lent to students "who in mid-semester, as often happens, find themselves without sufficient means to complete the year's work."

### THE AKRON COLLEGE CLUB FUND

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

### EVENING SESSION LOAN FUND

By voluntary contributions each semester since February, 1933, the evening students have accumulated this fund to aid evening session students. Loans are made for short periods to students who have attended this division of the University for at least one year.

#### MABEL JANE ROGERS MEMORIAL FUND

The Mabel Jane Rogers Memorial Fund, amounting to \$100, was given by the alumnae of Flora Stone Mather College, Western Reserve University, in memory of Miss Mabel Jane Rogers who was instructor in Spanish at the University of Akron for eight years. It is used for short emergency loans to women students.

#### THE THOMAS-LITCHFIELD LOAN FUND

This fund was established by two directors of the University, Mr. John W. Thomas and Mr. P. W. Litchfield, in 1932. From it money to pay fees is lent for short periods to upperclassmen who are residents of Akron.

#### THE HARRIET HALE FUND

The money in this fund was given to the University by the trustee of the Harriet Hale estate to be used in the furtherance of education in music. Loans for the payment of fees are made to students specializing in music.

#### THE CUYAHOGA PORTAGE CHAPTER D. A. R. LOAN FUND

The money in this fund was donated by the Cuyahoga Portage Chapter of the Daughters of the American Revolution for the purpose of aiding deserving men and women students of the University.

#### INDIAN TRAIL CHAPTER OF DAUGHTERS OF THE AMERICAN COLONISTS LOAN FUND

The money in this fund was donated by the Indian Trail Chapter of Daughters of the American Colonists for the purpose of making loans to students of the University.

## FEES AND EXPENSES

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

### CLASSIFICATION OF CHARGES

*Tuition* is free to citizens of Akron. Tuition charges for those not citizens of Akron are shown below.

A *Graduation Fee* is payable in connection with the Bachelor's degree and Master's degree.

A *Maintenance Fee* is paid by all students. The amount of the fee depends upon the number of credit hours taken.

*Student Activity Fee (Day Session)* payable by all undergraduate students enrolled for 8 credit hours or more. Payment of this fee provides support for the extra-curricular activities program.

*(Evening Session)* payable by all evening session students. Payment of this fee aids in the support of activities of the evening students.

*(Summer Session)* payable by all summer session students. Payment of this fee aids in the support of activities of the summer students.

*Student Building Fee*, payable by all students in all sessions, makes available the facilities of the student building.

*Laboratory and Breakage Deposits* are charged in some courses to cover the materials used.

*Late Registration Fee.*

*Miscellaneous Fees.*

*Refunds.*

### SUMMARY STATEMENT

For ease in determining approximate costs for each semester, the following tabulation indicates a typical charge of a day student enrolled for a normal full time schedule of work of 16 hours each semester of the academic year.

## FEES FOR FIRST SEMESTER

Tuition fee, for non-residents of Akron .....	\$ 90.00
Maintenance fee, for all students .....	35.00
Student activity fee, for all students .....	7.00
Student building fee .....	3.00
Library fee .....	1.50
Total for non-residents of Akron .....	\$136.50
Total for residents of Akron .....	\$ 46.50

## FEES FOR SECOND SEMESTER

Tuition fee, for non-residents of Akron .....	\$ 90.00
Maintenance fee, for all students .....	35.00
Student activity fee, for all students .....	3.00
Student building fee .....	3.00
Library fee .....	1.50
Total for non-residents of Akron .....	\$132.50
Total for residents of Akron .....	\$ 42.50

For less than 11 semester hours of college work the fees are accordingly less. Laboratory fees, deposits and books are additional and vary with the courses taken.

Students who are permitted to audit work, do not participate in class discussion, and do not receive credit. The fee is the same as for regular enrolment.

## TUITION

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. Any 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 student who makes false statements of fact concerning his eligibility for admission or abatement of tuition charges is liable to immediate expulsion from the University.

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 toward the University levy, by presenting received tax bill for that half year.

### TUITION FEES

Payable only by non-resident students in the day session :	Each Semester
For 1 to 5 credit hours inclusive, per credit hour .....	\$ 6.00
For 6 credit hours .....	35.00
For 7 credit hours .....	50.00
For 8 credit hours .....	60.00
For 9 credit hours .....	70.00
For 10 credit hours .....	80.00
For 11 credit hours or more .....	90.00
Cooperative engineering students (alternating by 9-week periods) .....	60.00
Payable only by non-resident students in the evening session :	
For less than 7 hours .....	No charge
For 7 to 10 hours inclusive, per credit hour in excess of 6 credit hours .....	20.00
For 11 credit hours or more .....	90.00
Summer session .....	No charge

### MUSIC

Two individual half-hour lessons per week, each semester, in Piano, Voice, Violin, Organ or Band Instruments .....	\$60.00
One individual half-hour lesson per week, each semester, in Piano, Voice, Violin, Organ or Band Instruments .....	30.00
Organ rental by special arrangement.	

### MAINTENANCE FEES

Payable by all students both resident and non-resident in the day and evening sessions :

For 1 to 5 credit hours inclusive, per credit hour .....	\$ 6.00
For 6 credit hours or more .....	35.00

Cooperative engineering students (alternating by 9-week periods) ..... 25.00

Payable by all students in the evening session and by Smith-Hughes registrants :

Registration fee, per semester .....	1.00
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Payable by all students in the summer session :

For 1 to 4 credit hours inclusive, per credit hour .....	6.00
For 5 or 6 credit hours, inclusive .....	25.00
For 7 credit hours or more, \$25.00 plus \$6.00 per credit hour in excess of 6 credit hours.	

An advance deposit of \$5.00 is required of all freshmen when applying for admission for the fall semester. This sum is credited on the maintenance fee at entrance and is not subject to refund if the student takes part in Freshman Week.

### GRADUATION FEE

(Payable at time of application for degree)

Bachelor's degree .....	\$ 5.00
Master's degree .....	10.00

### STUDENT ACTIVITY FEE

Payable by all undergraduate students in the day session taking eight credit hours or more :

First semester (including athletic and dramatic ticket) .....	\$ 7.00
Second semester students enrolled first semester .....	3.00
Second semester, new entrants (including athletic and dramatic ticket) .....	5.00

Payable by all Evening Session students, per semester ..... .50

Payable by all students in the Summer Session ..... 1.00

### STUDENT BUILDING FEE

Payable by all students enrolled in the day session taking eight credit hours or more, per semester .....\$ 3.00

Payable by all students enrolled in the day session taking less than eight hours, per semester ..... 1.50

Payable by all Evening Session students, per semester ..... .50

Payable by all students in the Summer Session ..... .50

## LABORATORY FEES

	Each Semester
Art 175, 176 (Figure Drawing) .....	\$ 1.50
Biology 41, 42 (Geology) .....	2.50
Biology 51, 52 (Botany) 61, 62 (Zoology) 113, 114 (Field Botany) .....	4.00
Biology 135, 136, 235, 236 (Physiology) 141 (Invertebrate Zoology) .....	4.00
Biology 144 (Entomology) 217 (Plant Anatomy and Histology) .....	4.00
*Biology 107, 108 (Bacteriology) .....	7.50
Biology 146, 148 (Genetics) .....	1.00
Biology 155 (Vertebrate Anatomy) .....	10.00
Biology 215, 216 (Plant Physiology) 154 (Histological Technique) .....	6.00
Biology 256 (Embryology) .....	7.50
Biology 267, 268 (Biological Probs.) 367, 368 (Research) per credit hr. ....	2.00
*Chemistry 21, 22, 43, 44, 55, 56, 105, 106, 107, 108 .....	10.00
*Chemistry 23, 24 (General) 131, 132 (For Engineers) .....	5.00
*Chemistry 133, 134 (Metallurgy) .....	7.50
Chemistry 138 (Metallurgy) .....	3.00
*Chemistry 207, 208, 209, 213, 214, 321, 322, 307, 308 .....	8.00
*Chemistry 215, 216 .....	15.00
*Chemistry 315, 316 per credit hour .....	5.00
Education 105 (Tests and Measurements), 312 (Educ. Meas.) .....	2.00
Education 126 (Play Materials) 315 (Mental Tests) .....	1.00
*Engineering 21, 22, 43, 101 (Surveying) 108 (Route Surveying) (C.E.) .....	2.00
*Engineering 21, 22, 43, 44 (Ind. Electric.) 55, 56 (Ind. Electronics) (E.E.) .....	2.00
*Engineering 49 (Shop Practice) (M.E.) .....	3.00
*Engineering 58, 123, 124, 136, 147 (E. E. Lab.) (E.E.) .....	3.00
*Engineering 112 (Concrete Lab. C. E.) (C.E.) .....	1.00
*Engineering 117, 118 (Strength of Materials C.E.) .....	1.00
*Engineering 141, 142 (E. E. Lab.) (E.E.) .....	4.00
*Engineering 149 (Engineering Electronics) (E.E.) .....	3.00
*Engineering (137) 150 (Radio Communication) (E.E.) .....	3.00
*Engineering 182, 183 (Mechanical Lab.) (M.E.) .....	2.00
*Engineering 194 (Special M. E. Problems) (M.E.) .....	3.00
Home Economics 45, 46 (Foods) .....	4.50
Home Economics 107, 108 (Textiles) .....	2.00
Home Economics 115, 116 (Foods) .....	5.00
Home Economics 119, 120 (Nutrition) .....	2.00
Hygiene Lab. (Swimming—Men) .....	2.50
Hygiene Lab. (Swimming—Women) .....	5.00
Physical Education 60, 114 (Swimming—Men) .....	2.50
Physical Education 60, 114 (Swimming—Women) .....	5.00
Physics 21, 22, 209, 210, 309, 310 .....	4.00
Physics 43, 44, 51, 52, 53, 203 .....	2.00
Psychology 425, 426 (Clinical) .....	2.00
**R. O. T. C. Basic Course .....	5.00
**R. O. T. C., Advanced Course .....	10.00
Secretarial Science 31, 51, 52 (Typewriting) .....	1.00
Secretarial Science 63, 64 (Adv. Shorthand and Transcription) .....	1.00
Secretarial Science 74 (Secretarial Training) .....	1.00
Sec. Sci. 83, 84, 85, 163, 164, 165, 166, 186, 187, 188 (Dictation) .....	1.00
Secretarial Science 293 (Office Practice) .....	2.50
Speech 161, 162 (Play Production) .....	2.00
Speech 181 (Radio Speaking) .....	1.00

\*Requires a breakage deposit of \$5.00, the unused portion of which will be returned to the student.

\*\*This deposit is returnable at the end of the semester less charges for lost or damaged articles.

## LATE REGISTRATION FEE

A fee of \$5.00 will be charged day students, and \$1.00 for evening students, who have not completed registration, classification, and payment of fees before the class work begins in the college in which they are registered. The late fee for summer session students is \$5.00.

The dates on which this fee will first be payable each semester, 1940-41, are as follows:

First Semester:

Monday, September 16 .....Day and Evening Sessions

Second Semester:

Monday, February 3 .....Day and Evening Sessions

1940 Summer Session:

Tuesday, June 17.

## MISCELLANEOUS FEES

One free transcript of record is furnished a student. A fee of \$1.00 is charged for each additional copy.

After a student has been classified, a charge of \$1.00 is made for any change in his program which is not made at the instance of the University authorities.

A library fee of \$1.50 each semester is charged all students in the University taking eight hours or more of work in a semester.

A fee of \$2.00 is charged for each two- or three-year certificate.

A fee of \$5.00 is charged for each examination in college work not taken in course.

All students graduating from the University are required to pay a graduation fee, payable at time of application for degree, \$5.00 for Bachelor's and \$10.00 for Master's degree.

All graduate students presenting a thesis for a Master's degree are required to pay a thesis fee of \$10.00 and the cost of the thesis binding, which is \$1.00 per copy.

A special fee of \$5.00 per credit hour is charged for Research Problems 436 (College of Education). No registration fee or maintenance fee is required.

All Smith-Hughes courses which the student may desire at some future time to use toward a degree shall be paid for at the time of registration at the rate of \$6.00 per credit hour.

For hours taken in excess of an 18 hour load, a fee of \$6.00 per credit hour is charged. Exceptions are made in the case of students enrolled in the Engineering course whose registration requires an academic load of 18 hours or more in its regularly prescribed curriculum and in the case of credit hours taken in band, glee club, debate and orchestra. This fee is not subject to refund.

REFUNDS

Tuition and fees are not returnable except when withdrawal is caused by serious illness or causes entirely beyond the control of the student. Application for refund must be made before the end of the semester for which the fees have been paid.

No refund will be made on any of the following fees :

- |                         |                                    |
|-------------------------|------------------------------------|
| 1. Advanced deposit.    | 5. In case of students dropped for |
| 2. Change of course.    | academic failure or discipline.    |
| 3. Late registration.   | 6. Excess load fee.                |
| 4. Special examination. | 7. Swimming fee.                   |

To be entitled to a refund in any case the student withdrawing must present to the Treasurer of the University in writing a "Withdrawal Request" setting forth the particulars of his case. Permission to withdraw does not imply that a refund will be made.

1. A statement from the dean of his college that the student is in good standing, is entitled to an honorable dismissal, and is withdrawing with the dean's permission, from the college or courses designated must be presented.
2. A statement from the military department, if he is a student in R.O.T.C., that his uniform account is clear must be secured.
3. If dropping a laboratory subject, he shall return his deposit card certified by the proper person, showing the amount of the refund due him.
4. If dropping an Evening Session or Summer Session subject, he shall present a statement from the Director stating that he is permitted to withdraw from the subject.

When above conditions have been complied with, the request will be ruled upon and refund, if due, will be made in accordance with the following plan :

*Evening Session Fees:* In full for courses advertised that may not actually be given due to insufficient enrolment.

*Student Activity Fee:* Upon return of the student athletic ticket, refund will be made on the same basis as other regular fees.

*Other Regular Fees:* The amount actually paid will be refunded less the proportion to be retained by the University as follows :

FIRST AND SECOND SEMESTERS

TIME OF WITHDRAWAL	AMOUNT RETAINED BY THE UNIVERSITY
After registration and before entering classes	\$1.00 of evening fees or \$5.00 of day school fees
During 1st week	\$5.00
During 2nd week	20% of semester charge
During 3rd and 4th weeks	40% of semester charge
During 5th and 6th weeks	60% of semester charge
During 7th and 8th weeks	80% of semester charge
After 8th week	Full amount of semester charge

SUMMER SESSION

Before entering classes	\$1.00
During 1st week	20% of term charge
During 2nd week	40% of term charge
During 3rd week	60% of term charge
During 4th week	80% of term charge
After 4th week	Full amount of term charge

Time of withdrawal is taken as the date certified by the dean or director.

## GENERAL OBJECTIVES OF THE UNIVERSITY OF AKRON

The University of Akron is a municipal university supported in large measure by city taxes. It, therefore, aims to devote its efforts to the work of higher education especially for the people of Akron.

The University of Akron has as its aims :

To give students a survey of the chief fields of knowledge and thus acquaint them with the world of nature and human life ; to develop their ability to make sound judgments and to profit from experience ; to arouse their intellectual curiosity and stimulate their scholarly growth ; to aid them to develop their physical well-being ; to help them to appreciate beauty in all its forms and thus to furnish them with resources for enjoying their leisure hours.

To develop and strengthen in students a sense of social responsibility so that they have a proper regard for the rights of others ; to prepare them for a sane and loyal family life and an active and intelligent citizenship.

To prepare students for greater social and individual effectiveness in public service, commerce and industry, and the professions ; for the professions of teaching and engineering ; for entering the professional schools of law, medicine, and dentistry, and for advanced study in other fields ; for careers in art, music, home economics, and secretarial science.

In the attainment of these objectives, the University of Akron proposes to utilize its available resources to the utmost. Students who are admitted will be expected to have a satisfactory degree of intellectual maturity, and adequate scholastic preparation along with the necessary aptitudes and interests. It is also expected that their educational objectives will harmonize with those of the University.

The University has further aims :

To provide expert advice for various civic and educational agencies ; to furnish a scientific testing service for commerce and industry ; to offer educational programs for the dissemination of culture and knowledge.

## ORGANIZATION OF THE UNIVERSITY

### I. THE GENERAL COLLEGE

The purpose of the General College is two-fold: (a) to furnish a general cultural education for (1) students who plan to enter an Upper College and secure an academic degree, and (2) students who desire approximately two years of general education, but who do not desire or are unable to enter an Upper College; (b) to furnish pre-professional courses and terminal courses of an occupational nature for students who do not desire or are unable to enter an Upper College.

### II. THE UPPER COLLEGES

After completion of the work in the General College, the student may begin work in his field of concentration in one of the upper colleges.

#### BUCHTEL COLLEGE OF LIBERAL ARTS

The departments of the Liberal Arts College are grouped in three divisions as follows:

<i>Humanities</i>	<i>Social Sciences</i>	<i>Natural Sciences</i>
Art	Commerce	Biology
Latin and Greek	Economics	Chemistry
Literature	History	Mathematics
Modern Languages	Home Economics	Physics
Music	Political Science	
Philosophy	Secretarial Science	
Speech	Sociology	

#### THE COLLEGE OF ENGINEERING

The departments of the College of Engineering are:

Civil Engineering	Industrial Engineering
Electrical Engineering	Mechanical Engineering

#### THE COLLEGE OF EDUCATION

There are no divisions in the College of Education, but preparatory courses are offered in a variety of teaching fields:

Art	Home Economics	Physical Education
Commerce	Kindergarten	Psychology
Elementary	Music	Vocational Education
High School	Primary	

### GRADUATE STUDY

In certain colleges and departments—especially in the College of Education—opportunity is offered properly qualified persons to study for the Master's degree. In some of the departments graduate courses given in connection with the work in Adult Education have been arranged on a rotating plan to enable candidates to meet the requirements for a major or a minor.

For details as to the colleges and departments which offer courses of graduate rank see the catalog material under the various colleges and departments and also the section on graduate study.

### DEGREES

For completion of his work in the Upper College a student is expected to have taken at least fifty per cent.—and it is desirable that he take not more than seventy-five per cent.—of his total work (outside the 36 to 42 hours of required work in general education) in the major division.

A statement of degrees conferred upon completion of courses of study 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.

## DIVISION OF ADULT EDUCATION

### THE EVENING SESSION

All colleges of the University offer courses in the evening. Credit is given toward a degree for regularly prescribed subjects. Full-time or part-time schedules are possible for new and former students in degree, diploma, and certificate courses. Candidates for a diploma or degree must satisfy the entrance requirements of the University.

### THE SUMMER SESSION

A Summer Session of six weeks furnishes instruction to teachers and other persons who seek opportunities for training. Courses are offered to meet the needs of students in all colleges of the University.

### INSTITUTES

Non-credit courses to meet the needs of many persons who already have a degree or desire practical training for a particular vocation or avocation are offered on a short term basis. For further information see section on Community Cooperation.

## 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" or "credit."

### GRADING SYSTEM

93-100 inclusive .....	Excellent .....	A
85-92 inclusive .....	Good .....	B
77-84 inclusive .....	Fair .....	C
70-76 inclusive .....	Poor .....	D
Below 70 .....	{ Conditioned .....	E
	{ Failed .....	F
Incomplete .....		I

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

"*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 converts the grade to F. No higher grade than "D" is given for the removal of a "Condition."

"*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 nine weeks of the next semester in the University converts the grade to F.

### QUALITY REQUIREMENT

For graduation from the University, the student must present 128 semester hours with a quality point ratio of 2 for all work attempted. Quality points are given as follows:

- For each credit hour of A, 4 quality points.
- For each credit hour of B, 3 quality points.
- For each credit hour of C, 2 quality points.
- For each credit hour of D, 1 quality point.
- For each credit hour of F, 0 quality point.

No student is eligible for a degree unless he has the same ratio of quality points in his major subject as is required for graduation.

## PROBATION AND FAILURE

In the General College a student who fails at any time to maintain a quality point ratio of 2 may be subject to change of courses, suspension, or some other form of academic discipline, by the Dean of Students.

In an Upper College a student whose scholarship is unsatisfactory may be placed on probation, suspended for a definite period of time, or dropped from the University at any time by the Dean of the college in which the student is enrolled.

The load for every probationary student is determined by the Dean who has jurisdiction over him.

Students who have been dropped from the University are not eligible to register for any college courses in Day, Evening, or Summer Sessions. Such individuals may, however, enrol for non-credit work in the Community College. Reinstatement of dropped students is under the control of the Committee on Admission and Advanced Standing, and is a prerequisite for enrolling in college work.

## CHANGES IN STUDENT'S PROGRAM

No Upper College student is allowed to drop a study after the opening of a semester, or in any way change his selection of studies for any semester, without permission of the Dean of the college in which he is registered.

Students in the General College will secure the permission of the Dean of Students.

Students who withdraw from a course *with the permission of the Dean* are given a grade for work at the time of withdrawal. (This grade is used for statistical purposes.)

If a student withdraws from a course on the recommendation of the Dean, it shall not count as work attempted except in the compilation of statistical averages.

If a student leaves a course *without the recommendation of the Dean*, or is dropped from any course by the Dean, he is given a failing grade in the course and it is counted as work attempted.

All grades received by students whether passing or failing, withdrawn or dropped, are used in the compilation of statistical averages for student groups.

No student is allowed to enter a course after the first week of the semester.

First-year students are not permitted to elect work above the freshman year except by special permission.

### WITHDRAWAL

A student desiring to withdraw from the University is requested to notify the Dean of the college in which he is enrolled. Otherwise "F" grades may be received in all work carried.

### STUDENT LOAD

Sixteen hours a semester are counted as full work for a student. No student is allowed to take more than 17 hours a semester without the consent of the Dean of the college in which he is enrolled. An excess load charge is made for work taken in excess of 18 hours, except in the case of certain definitely prescribed curricula.

### ABSENCE

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.

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

### PROMOTION TO AN UPPER COLLEGE

For promotion to an Upper College the student must make a quality point ratio of 2 for the work taken in the General College and must complete at least 64 hours of work including all the required general courses. At the discretion of the Division a point ratio higher than this may be required. (It is understood that certain exceptions may be made in the operation of this ruling in the Engineering College and in the Division of Natural Science.)

The admission of students to the Upper College shall be a responsibility of the academic deans in consultation with the Dean of Students and the heads of the departments concerned.

At the discretion of the Division, an examination over the courses preparatory to the work of that Division may be required.

### GENERAL FINAL EXAMINATIONS

A general final examination covering the major field of study is required in many of the departments of instruction. In divisions and departments of the University which give a general final examination, the passing of that examination is a requirement for graduation.

The administration of these examinations is in the hands of a committee consisting of the Registrar as chairman, and one member from each college faculty appointed by the deans of the respective faculties.

In the College of Education the fourfold qualifying examinations at the close of the junior year are regarded as the general final examination.

## SYSTEM OF NUMBERING

1-99. Courses given in the General College. (Numbers 1-19 are reserved for required courses in General Education.)

100-199. Courses of Upper College rank.

200-299. Undergraduate courses for which graduate credit may be obtained for a greater amount and a higher quality of work than that required of undergraduates.

300-399. Graduate courses to which a few undergraduates who have shown unusual ability may be admitted.

400-499. Graduate courses for which the prerequisite is a bachelor's degree.

## THE GENERAL COLLEGE

### ENTRANCE REQUIREMENTS

The admission of any student to the University of Akron will depend upon the evidences of his preparation and ability to do college work in a satisfactory manner. The evidences are: (1) graduation from an accredited four-year secondary school or its equivalent; (2) quality of the work done in the secondary school; (3) ranking in certain tests given by the university to determine preparation, ability, and aptitudes; (4) attitude toward college work.

In determining the admission of any applicant, consideration is given to the above factors. A low ranking in any one will require a higher ranking in the others. For example, a student whose secondary school average is low may be admitted if his ranking in the tests is high. Also, an applicant with a fair secondary school record may make such a poor ranking in these tests as not to qualify for admission.

Any student applying for admission is expected to have a satisfactory grounding in both oral and written English. Without such grounding the student will encounter difficulty in his college studies. Provision is made for special non-credit classes in basic English, and students who are seriously deficient are required to enrol in these classes. A description of this requirement may be obtained from the Registrar.

Such college courses as Latin and mathematics cannot be taken until the prerequisites are met.

For admission to the engineering course at least  $1\frac{1}{2}$  units of high school algebra and 1 unit of plane geometry are required. It is recommended that each candidate desiring college training in technical and scientific lines include in his preparatory work an adequate high school training in mathematics and science.

### SPECIAL STUDENTS

Students of maturity, over 21 years of age, who have not graduated from high school, may be admitted to certain courses upon presentation of sufficient evidence of preparation, aptitude, ability, and interest. These students are known as special students, and work taken by them does not count toward a degree until entrance requirements are met.

#### IRREGULAR STUDENTS

Students who have fulfilled the entrance requirements, but who are not pursuing a regular course, are known as irregular students. Students carrying a load of less than eight credit hours are classed as irregular students.

#### 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 Registrar a transcript of his record and an honorable dismissal.

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.

#### REGISTRATION AND CLASSIFICATION

A student who wishes to gain admission by certificate should ask his high school principal to mail a statement of high school record on a blank supplied by the University Registrar upon request. If the certificate is satisfactory, the applicant is notified, and is expected to present himself in person to register between August 19 and September 7. *Entering freshmen are not allowed to register after noon of September 7.* A \$5.00 deposit, required at the time of registration, is applied on semester fees.

#### FRESHMAN WEEK

To aid the freshman in adjusting himself to university life, the week preceding the opening of the regular session is devoted to a program consisting of a general assembly, tests, physical examination, lectures, and payment of fees.

For the first semester 1940-41, all entering freshmen are *required* to report at 10 a. m. on Monday, September 9, and attend all sessions, Monday to Thursday, inclusive. Sessions of this program will occupy the time from 8 a. m. to 4 p. m. of the days specified.

#### REGISTRATION DAYS

The registration days for day session students previously enrolled are as follows: All Upper College students, Thursday, September 12; General College students, Thursday, Friday and Saturday, September 12, 13 and 14, from 8:30 a. m. until 4 p. m. except Saturday.

Evening Session students will register between 5 p. m. and 9 p. m. on Friday, September 20, and between 1 p. m. and 9 p. m. on Saturday, September 21.

The dates for the second semester are printed in the calendar at the beginning of this catalog.

After these dates, a late registration fee of \$5.00 will be charged to day students and a late fee of \$1.00 to evening session students.

CURRICULUM OF THE GENERAL COLLEGE

Courses in the General College have been planned and organized in scope, content, method of approach, and method of presentation, to attain as fully as possible the general objectives of the University.

While there are no separate departmental divisions in the General College, the different divisions of the upper colleges, through their various departments, will offer, in addition to certain subjects required for students majoring in the department, other introductory courses, open to all students in the General College, but ordinarily not open to students of the upper colleges.

GENERAL EDUCATION

Ordinarily the work in the General College will cover two years; however, abler students may shorten the time by taking examinations for credit. The required courses in general education are:

1. English, Oral and Written .....6 hours, first year
2. Hygiene, Physical and Mental .....6 hours, first year
3. Introduction to the Social Sciences .....6 hours, first year
- ††4. Introduction to the Natural Sciences .....6 hours, first or second year
- ††5. Introduction to the Humanities .....6 hours, first or second year
- ††6. Mathematics, Accounting, or Foreign Language .....6 or 8 hours, first or second year
7. Military Science and Tactics (for men) .....6 hours  
(One from 4 and 5, and one from 6 must be taken the first year)

PRE-PROFESSIONAL AND TERMINAL COURSES

In addition to the work offered in general education, the General College offers certain pre-professional courses and terminal courses of an occupational nature for students who do not desire to remain longer at the University or who are unable to do so.

REQUIREMENTS FOR PROMOTION  
TO UPPER COLLEGE WORK  
COLLEGE OF EDUCATION

	Kdgn. Prim.	Prim. Elem.	Ele- men- tary	Hyg. and Ph. Ed.	High School	Music	Art
English .....	6	6	6	6	6	6	6
Hygiene and Physical Education ....	6	6	6	6†	6	6	6
Int. Social Science .....	6	6	6	6	6	6	6
Int. Humanities .....	6	6	6	6	6	6	6
Int. Natural Science .....	6	6	6	6	6	6	6
Mathematics .....				6	6	6	6
*Accounting .....				or	or	or	or
Foreign Language .....				8	8	8	8
**Military Science and Tactics .....	6	6	6	6	6	6	6
General Psychology .....	3	3	3	3	3	3	3
Educational Psychology .....	3	3	3	3	3	3	3
Int. Education .....	3	3	3	3	3	3	3
Literature .....	6	6	6	6	6	6	6

\* In some curricula Accounting may be chosen instead of Mathematics or Foreign Language.  
 \*\* Required of men.  
 † Refer to description of Hygiene, Physical and Mental 15-16 in the department of Physical Education, College of Education.  
 †† In certain curricula other courses may be permitted or specified.

REQUIREMENTS FOR PROMOTION TO THE UPPER COLLEGE, COLLEGE OF LIBERAL ARTS

	DIVISION OF HUMANITIES								DIVISION OF SOCIAL SCIENCE						DIVISION OF NATURAL SCIENCE							
	Latin and Greek	Art	English	Music	Philosophy-Psychology	Speech	Modern Language	Commerce	Economics	History	Home Economics	Home Economics	General Course	Political Science	Secretarial Science	Sociology	Biology	Chemistry	Mathematics	Physics	Pre-Medical	
English (Freshman) .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Hygiene and Physical Education .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Int. Social Science .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Int. Humanities .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Int. Natural Science .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Military Science and Tactics .....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Foreign Language .....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In Major Field .....	12	18	6	7	12	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Accounting .....								6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Business Administration .....								3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Selling and Advertising .....								3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Economics 41 and 48 .....								6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Shorthand .....															6	6	6	6	6	6	6	6
Typewriting .....															4	4	4	4	4	4	4	4
Zoology .....																	8	8	8	8	8	8
Botany .....																	8	8	8	8	8	8
Chemistry .....											6	6	6	6	6	6	8	8	8	8	8	8
Mathematics .....																	17	17	17	17	17	17

Each student is expected to take during his first year one of the following : Accounting 6 hrs. ; Foreign Language, 6 or 8 hrs. ; Mathematics, 7 hrs.

- \* All majors in these departments are required for graduation to complete the second year of a foreign language on the college level.
- \*\* German required for graduation.
- ‡ See below under special subjects.
- † Second year French or German required for graduation.
- †† Second year French required for graduation.
- \*\*\* Introd. to Natural Science may be waived as a requirement in part or in whole at the jurisdiction of the proper academic officers.

## PREREQUISITES FOR THE UPPER COLLEGES

In addition to the required courses in general education, there are definite prerequisite and recommended studies in the General College for the various majors or fields of concentration in the upper colleges. Students should note the prerequisites carefully, as given below, and plan to take them during their first two years:

### BUCHTEL COLLEGE OF LIBERAL ARTS

#### THE HUMANITIES DIVISION

**ART**—*Required*: Appreciation of Art 29-30, Structural Art 21, Design 22, Design 43, Drawing and Rendering 45-56, Modeling 59-60. *Recommended*: Psychology 41-42, Sociology 41, Shakspeare 41.

**ENGLISH**—*Required*: The following courses should be taken in the General College, and must be taken before graduation: Shakspeare 41, Short Story Writing 43-44 or Essay Writing 63-64, American Literature 47-48. *Suggested Electives*: Appreciation of Art 29-30, Appreciation of Music 22, Typewriting 31.

**LATIN AND GREEK**—*Required*: Latin 43-44. *Recommended*: Shakspeare 41, Psychology 41-42.

\***MODERN LANGUAGES**—*Required*: Modern foreign language, both years.

**MUSIC**—*Required*: General Theory 21, Appreciation of Music 22, Elementary Harmony 43-44. *Recommended*: Psychology 41-42, Philosophy 55-56, Shakspeare 41.

**PSYCHOLOGY AND PHILOSOPHY**—*Required*: Philosophy 55-56, Psychology 41-42. *Recommended*: Sociology 41-42, Literature, especially Shakspeare 41.

**SPEECH**—*Required*: Speech 41. *Suggested Electives*: Interpretation 51 and any other General College speech courses, the basic courses in the social sciences, and psychology; Shakspeare 41, Word Study 42, Structural Art 21.

Since Upper College work in speech embraces the fields of public speaking, debate, dramatics, speech correction, and interpretation, the student should elect a program in General College that will apply directly to the specific interests in the field of speech which he proposes to follow in Upper College.

#### THE SOCIAL SCIENCE DIVISION

**ECONOMICS**—*Required*: Economics 41, and 3 hours to be chosen from 42, 44, or 48. *Recommended*: Accounting 21-22, Business Administration 61, Psychology 41-42, Mathematics 21-22, Sociology 41-42, Political Science 41-42.

**HISTORY**—*Required*: None. *Recommended*: Social Science.

**HOME ECONOMICS**—*Required*: Textiles 21, Clothing 22, General Foods 45-46, Home Economics Survey 53, Consumer Economics 82, second-year foreign language (French for Textiles and Clothing majors). Foods and Nutrition majors take in addition Chemistry 23-24.

\* Second year of German is required for graduation from the Upper College in the case of Chemistry, Physics, and Pre-Medical majors, and the second year of either French or German in the case of Biology and Mathematics majors.

In the Humanities and Social Science Divisions (except Commerce and Secretarial Science), the requirement is the second year of a foreign language on the college level, ordinarily taken in the General College.

**POLITICAL SCIENCE**—*Required*, one of the following: American National Government 41, American State and Local Government 42, Comparative Government 43 or American Diplomacy 44. *Recommended*: Social Science.

**SOCIOLOGY**—*Required*: Sociology 41-42. *Recommended*: Psychology 41-42, Speech 41, English, Home Management Survey 53 (for women intending to enter social service).

**COMMERCE**—*Required*: Accounting 21-22, Business Administration 61, Selling and Advertising 81, Economics 41-48. *Recommended*: Analytical Accounting 43; Economic Geography 54; Typewriting 31; Sociology 41-42; Psychology 41, 62; Philosophy 55-56.

**SECRETARIAL SCIENCE**—*Required*: Shorthand Theory 41-42, Typewriting 51-52. *Recommended*: Accounting 21-22 or 41-42, Business Law 51, Business Administration 61, Economics 41-42, Secretarial Procedure 21, Filing and Machine Calculation 26.

#### NATURAL SCIENCE DIVISION

**BIOLOGY**—*Required*: Zoology 61-62, Botany 51-52, Inorganic Chemistry 21-22.

**PRE-MEDICAL**—*Required*: Zoology 61-62, Inorganic Chemistry 21-22, Qualitative Analysis 43, Introductory Organic Chemistry 44, Algebra 21, Trigonometry 22, German 21-22.

**CHEMISTRY**—*Required*: Inorganic Chemistry 21-22, Qualitative Analysis 43, Elementary Organic Chemistry 44, Algebra 21, Trigonometry 22, Analytics 43-44, Calculus 45-46.

**MATHEMATICS**—*Required*: Algebra 21, Trigonometry 22, Analytics 43-44, Calculus 45-46.

**PHYSICS**—*Required*: Physics 21-22; 43-44; Algebra 21; Trigonometry 22; and Analytics 43-44 and Calculus 45 and 46 or Chemistry 21-22.

#### THE COLLEGE OF ENGINEERING

For the courses required in the first two years of engineering, see the Engineering College section of this catalog.

#### THE COLLEGE OF EDUCATION

##### *Freshman Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3	English 2 .....	3
Introduction to Social Science 5	3	Introduction to Social Science 6	3
Hygiene, Physical and Mental 15	3	Hygiene, Physical and Mental 16	3
Elective .....	6	Elective .....	6
Military Training 11 (Men) .....	1½	Military Training 12 (Men) .....	1½

##### *Sophomore Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Introduction to Humanities 7	3	Introduction to Humanities 8	3
Introduction to Natural Science 9	3	Introduction to Natural Science 10	3
General Psychology 41	3	Educational Psychology 52	3
Introduction to Education 55	3	Fundamentals of Speech 76	3
Literature .....	3	Literature .....	3
Military Training 43 (Men) .....	1½	Military Training 44 (Men) .....	1½

COURSES OFFERED IN THE GENERAL COLLEGE  
BUCHTEL COLLEGE OF LIBERAL ARTS  
*Humanities Division*

	Cr. Hrs.	MODERN LANGUAGES	Cr. Hrs.
<b>ART</b>			
*Structural Art 21 .....	2	*French 21-22 .....	8
*Design 22 .....	2	*French 43-44 .....	6
*Appreciation of Art 29-30 .....	4	*German 21-22 .....	8
*Design 43 .....	2	*German 43-44 .....	6
*Draw. and Rendering 45-46 .....	4	*Spanish 21-22 .....	8
*Modeling 59-60 .....	4	*Spanish 43-44 .....	6
Still Life 47-48 .....	4		
<b>ENGLISH</b>		<b>MUSIC</b>	
*English 1 .....	3	*General Theory 21 .....	1
*English 2 .....	3	*Appreciation of Music 22 .....	2
**Shakspeare 41 .....	3	*Elementary Harmony 43-44 .....	4
Word Study 42 .....	2	Glee Club, Orchestra, Voice, Instruments	
**Short Story Writing 43-44 .....	4	<b>PHILOSOPHY</b>	
**Essay Writing 63-64 .....	4	*Introduction to Phil. 55 .....	3
Appreciation of Prose 45 .....	3	*The Field of Philosophy 56 .....	3
Appreciation of Poetry 46 .....	3	<b>SPEECH</b>	
Appreciation of Drama 50 .....	3	*Speech 41 .....	3
**American Literature 47-48 .....	6	Speech 42 .....	3
News Writing 51-52 .....	6	Oral Argument 45-46 .....	4
News Writing and Edit. 53 .....	2	Bus. and Prof. Spk. 47-48 .....	4
History of Journalism 55 .....	2	*Interpretation 51 .....	3
Feature Writing 56 .....	2	Interpretation 52 .....	3
Editorial Writing 57 .....	2	Public Discussion 56 .....	3
<b>LATIN AND GREEK</b>		Debate 57, 58, 59, 60 .....	1 or 2
Latin 21-22 .....	6	Acting 63-64 .....	6
*Latin 43-44 .....	6	Speech Improvement 65-66 .....	2
Greek 21-22 .....	8	History of the Theater 67 .....	3
Classical Mythology 99 .....	3	Fundamentals of Speech 76 .....	3
		<b>Social Science Division</b>	
<b>***ECONOMICS</b>	Cr. Hrs.		Cr. Hrs.
Production, Prices and In- come 41 .....	3	Social Anthropology 45 .....	3
Current Economic Prob. 42 .....	3	Modern Social Problems 43 .....	3
Development of Economic Institutions 44 .....	3	<b>HOME ECONOMICS</b>	
Money and Banking 48 .....	3	*Textiles 21 .....	3
<b>HISTORY</b>		*Clothing 22 .....	3
American History 41-42 .....	6	*General Foods 45-46 .....	8
European History 45-46 .....	6	*Home Economics Survey 53 .....	3
†POLITICAL SCIENCE		<b>COMMERCE</b>	
American National Gov. 41 .....	3	*Accounting 21-22 .....	6
American State and Local Government 42 .....	3	†Accounting 41-42 .....	6
Comparative Government 43 .....	3	§Analytical Accounting 43 .....	3
American Diplomacy 44 .....	3	Intermediate Accounting 44 .....	3
<b>SOCIOLOGY</b>		Cost Accounting 46 .....	3
*Sociology 41 .....	3	†Business Law 51 .....	3
*Social Attitudes 42 .....	3	§Economic Geography 54 .....	3
		*Business Administration 61 .....	3
		*Selling and Advertising 81 .....	3
		Consumer Economics 82 .....	3

\* Required for majors.

§ Required of majors for graduation, but not for admission to the Upper College.

† Especially for Secretarial Science students.

\*\*\* Required for majors, 6 credits.

‡ 3 hours required for majors.

\*\* Courses 41, 47-48, and either 43-44 or 63-64 are required of English majors. They should be taken in the sophomore year, but may be taken in the junior year.

*Social Science Division (Continued)*

	Cr. Hrs.		Cr. Hrs.
SECRETARIAL SCIENCE		*Shorthand Theory 41-42	6
§Secretarial Procedure 21	3	*Typewriting 51-52	4
§Filing and Machine Calculation 26	3	Secretarial Training 74	2
Typewriting 31	2	Advanced Shorthand and Transcription 63-64	8
Business English 35	2		

*Natural Science Division*

	Cr. Hrs.		Cr. Hrs.
BIOLOGY		MILITARY SCIENCE AND TACTICS	
Geology 41-42	8	Military Science and Tactics 11-12	3
*Botany 51-52	8	Military Science and Tactics 43-44	3
*Zoology 61-62	8	PHYSICS	
Sanitation 71-72	6	Physics 21-22	8
Conservation 82	3	Physics 43-44	8
CHEMISTRY		Physics 51-52, 53	12
*Chemistry 21-22	8	MATHEMATICS	
§§Inorganic Chemistry 23-24	6	*Algebra 21	4
§Qual. Analysis 43	5	*Trigonometry 22	3
*Organic Chemistry 44	4	*Analytical Geometry 43-44	4
§§Organic Chemistry 55	4	*Calculus 45-46	6
§§Physiological Chemistry 56	4	Business Mathematics 58	3

THE COLLEGE OF ENGINEERING  
(All required in one course or another.)

	Cr. Hrs.		Cr. Hrs.
Personnel Problems 21	1	Surveying 43	2
Surveying 21-22	2	Engineering Geology 44	2
Engineering Drawing 21-22	4	Heat Power Engineering 46	3
Descriptive Geometry 44	3	Elements of Electrical Engineering 58	3
Shop Practice 49	2	Strength of Materials 46	3
Survey of Engineering 24	1	English 61-62	2
Machine Drawing 23	2		

## THE COLLEGE OF EDUCATION

	Cr. Hrs.		Cr. Hrs.
Physical Education 45-46	6	Principles of Geography 71	3
General Psychology 41	3	Geography of N. America 72	3
Applied Psychology 42	3	Geography of S. America 73	2
Educational Psychology 52	3	Geography of Europe 74	3
Handicrafts in Elementary Schools 41	2	Introduction to Music 81	2
Introd. to Education 55	3	Music Literature and Appreciation 82	2
Business Psychology 62	3	Second Year Sight Singing 83-84	4
Educational Sociology 65	3	Children's Literature 86	3
Story Telling 83-84	6		

## GENERAL INTRODUCTORY COURSES

	Cr. Hrs.		Cr. Hrs.
Freshman English 1-2	6	Introd. to Humanities 7-8	6
Hygiene, Phys. and Mental 15-16	6	Introd. to Natural Science 9-10	6
Introd. to Social Science 5-6	6		

§ Required of majors for graduation, but not for admission to the Upper College.

\* Required for majors.

§§ For students not majoring in chemistry, and especially for Home Economics students specializing in foods and nutrition.

**REQUIRED COURSES IN GENERAL EDUCATION****1-2. FRESHMAN ENGLISH, ORAL AND WRITTEN. 3 credits each semester.**

Instruction in reading, writing, and speaking the English language. Assigned readings, correlated with the general introductory courses, provide models for analysis and stimulate expression, both oral and written, on the part of the student. During the first semester, this material is primarily expository in character; during the second, the narrative and descriptive methods of reporting experience are stressed. The course provides a review of the principles of English usage, and instruction in taking notes and using the library.

Students in English 1 who prove to be inadequately prepared will be required to attend class two extra periods each week, without credit, in order to review fundamentals.

HAMILTON, BLOOMFIELD, PUTMAN, RAW,  
ROBERTS, H. THACKABERRY, R. THACKABERRY, WHITNEY

**15-16. HYGIENE, PHYSICAL AND MENTAL. 3 credits each semester.**

This course has three major objectives. The first is to assist the student to master certain knowledges and to develop attitudes, habits, and skills which will be effective in enabling him to live at a high level of physical efficiency. The second is to enable him to explore, analyze, and evaluate his abilities, interests, and needs as a sound basis upon which to make satisfactory adjustments of a personal and social character. The third purpose is to assist the student to improve his ability to do school work. The course is based upon two lectures a week, one discussion group, and two laboratory periods.

Students are required to enrol in one of the following sections each semester in connection with the Hygiene course. Students may be permitted to elect some of these beyond the two required. Students majoring in physical education must take all sections during the first two years.

**MEN**

The sections offered will be selected from the following activities:

- I Calisthenics (each semester).
- II Tumbling, Stunts, and Apparatus (each semester).
- III Swimming (each semester).
- IV Minor Sports—Speedball, Soccer, Volley Ball, Tennis, etc. (each semester).
- V Remedial Gymnastics (each semester).
- VI Athletics—Football, Basketball, Track (each semester).
- VII Wrestling.

## WOMEN

- I Folk and National Dancing (first semester).
- II Clog and Tap Dancing (second semester).
- III Danish Gymnastics (first semester).
- IV Tumbling, Stunts, Apparatus (second semester).
- V Team Sports—Soccer or Hockey, Volley Ball, Basketball, Baseball (each semester).
- VI Beginning Swimming (first semester). (For those who cannot swim or those who wish to develop form in their strokes.)
- VII Advanced Swimming and Life Saving (second semester). (Permission of instructor.)
- VIII Individual and Leisure Time Sports—Archery, Badminton, Ping Pong, Paddle Tennis, Deck Tennis, Horseshoes, Tennis, etc. (each semester).
- IX Remedial Gymnastics (first semester). (For those who show marked postural defects at the time of the physical examination.)
- X Modern Dancing (either semester).

EVANS, AYER, E. P. JONES, LOCKE, RIED,  
 CURRY, DOUGLAS, DOWLER, FOSTER, HITCHCOCK,  
 HUBBARD, SEFTON, H. A. SMITH, STONEMAN

5-6. INTRODUCTION TO THE SOCIAL SCIENCES. 3 credits each semester.

The purpose of this course is to give each student an appreciation of, an interest in, and a general comprehension of, the fundamental institutions of modern civilization. It is based upon the thesis of social change and organized primarily around the social, economic, and political problems of our time. It is intended to serve as a terminal course for students who concentrate in other fields, and as a foundation for students going into the social science division.

R. V. SHERMAN, BATTRICK, DOUTT, HANSON, KING, ZEIS

7-8. INTRODUCTION TO THE HUMANITIES. 3 credits each semester.

This course introduces the student to man's cultural achievements. In order to give a clear interpretation, first a general study is made of the various institutions developed by man, after which—against this institutional background of civilization—the various phases of man's intellectual activity through the course of the ages are considered, especially as expressed in literature, philosophy, religion, art and architecture, and music. The work is divided into certain periods: Ancient Oriental Empires; the Hellenic Age; the Hellenistic Period; the Roman Era; the Medieval Period; the Renaissance; the Reformation; the Expansion of Europe—the early modern period and the recent period.

KEISTER, BLOOMFIELD, DUKE,  
 RUPPENTHAL, THACKABERRY, YOUNG

9-10. INTRODUCTION TO THE NATURAL SCIENCES. 3 credits each semester.

A study of how the development of science has affected the course of human life and made modern civilization a possibility. The course begins with the study of man's placing himself in his universe. Many of the great discoveries in science which have liberated men from the limitations of time and distance as well as from superstitious fear are discussed. Illustrative material is drawn from the biological and physical sciences. The aims of the course are: to encourage the habit of using objective methods of reasoning, and to develop an appreciation of the contributions made by the great scientists; to give the student a greater knowledge of the fundamental principles of science, and some ideas concerning the techniques, skills, and habits of thought which are a part of the scientific world.

GRAY, ACQUARONE, CRAMER, GILMOUR, E. P. JONES, SCHMIDT

PRE-PROFESSIONAL AND TERMINAL COURSES

SPECIAL TWO-YEAR CERTIFICATE COURSE IN SECRETARIAL SCIENCE

A special two-year secretarial course (at least 64 semester hours) is offered for those who feel unable to spend more than two years at college in preparation. Students who desire the advantages of college education should supplement this program by as much additional study as possible, preferably completing the work for a degree. Desirable positions are demanding broad education as distinguished from specialized training.

This curriculum may be modified in the case of students who have had commercial courses prior to entering the University. For additional information, see the Secretarial Science section of the catalog.

		<i>First Year</i>	
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Shorthand Theory 41 .....	3	Shorthand Theory 42 .....	3
Typewriting 51 .....	2	Advanced Typewriting 52 .....	2
English, Oral and Written 1 ....	3	English, Oral and Written 2 ....	3
Hygiene, Physical and Mental 15 .....	3	Hygiene, Physical and Mental 16 .....	3
Introduction to Social Sciences 5	3	Introduction to Social Sciences 6	3
Secretarial Procedure 21 .....	3	Filing and Machine Calculation 26 .....	3

		<i>Second Year</i>	
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Introduction to Humanities 7 ....	3	Introduction to Humanities 8 ....	3
Introduction to Natural Science 9 .....	3	Introduction to Natural Science 10 .....	3
Accounting 21 or 41 .....	3	Accounting 22 or 42 .....	3
Advanced Typewriting and Transcription 63 .....	4	Advanced Shorthand and Tran- scription 64 .....	4
Business English 35 .....	2	Secretarial Training 74 .....	2

## THREE-YEAR ELEMENTARY COURSE IN EDUCATION

	Cr. Hrs.
English 1-2 .....	6
Introduction to Social Science 5-6 .....	6
Introduction to Humanities 7-8 .....	6
Introduction to Natural Science 9-10 .....	6
Hygiene, Physical and Mental 15-16 .....	6
Introduction to Education 55 .....	3
Literature .....	6
Art .....	4
Music .....	4
Story Telling 83 .....	3
Children's Literature 86 .....	3
General and Educational Psychology .....	6
Geography .....	3
Fundamentals of Speech 76 .....	3
Child Psychology 105 .....	3
The Teaching of Reading 135 .....	3
The Teaching of Arithmetic 136 .....	2
The Teaching of Language Arts 137 .....	2
The Teaching of Social Studies and Science 138 .....	2
Science for Elementary Grades 133 .....	3
Principles of Education 201 .....	3
School Administration 115 .....	2
Student Teaching 124 .....	4
Electives .....	7
Total .....	96

## PRE-NURSING

The Pre-Nursing course is individualized to answer the needs of the student and the requirements of the nurses' training school she plans to attend.

A minimum of two years broad cultural education is suggested. This means the completion of the General College requirements with elementary sciences elected the second year.

For entrance to certain nurses' training schools, three or four years of college are required, the third and fourth years to include additional work in sciences, sociology, psychology and cultural subjects.

For students interested in hospital administrative positions, four years of college are advised; and accounting, economics and foods should be included in addition to the subjects listed above.

## MILITARY SCIENCE AND TACTICS

### RESERVE OFFICERS' TRAINING CORPS

LIEUTENANT COLONEL DAVID H. COWLES, INFANTRY, *Professor*;  
MAJOR BLAISDELL C. KENNON, INFANTRY, *Assistant Professor*;  
MAJOR RAYMOND E. VERMETTE, INFANTRY, *Assistant Professor*;  
TECHNICAL SERGEANT WILLIAM E. BROWN, *Instructor*;  
STAFF SERGEANT PHIL LOFINK, *Instructor*

In 1919 the United States 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, required of all freshman and sophomore men who are physically fit; and the advanced course of the last two years, elective for the men who have completed satisfactorily the basic course and the first two years of scholastic work, and who have been selected by the President of the University and the Professor of Military Science and Tactics.

#### 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 regular 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 eight hours of work.
- f. Men who present a certificate of having completed forty-eight semester hours of work from another accredited college or university.
- g. Men above the age of twenty-six.
- h. Men who submit written declaration of valid religious or conscientious objections to military service similar to those in effect during the late war entitling one to exemption from service.

The work is given three hours per week for the first two years.  $1\frac{1}{2}$  hours of credit is given each semester for this course. Students are required to provide themselves with the text books designated by the P. M. S. & T. These books are on sale at the University Book Store. Old texts are not acceptable, as anything published prior to January, 1940, is obsolete.

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 must provide one pair of military pattern russet shoes and brown or tan socks for use with the uniform. Uniforms must be turned in at the completion of each year, or at the time of leaving; they are replaced at the beginning of the next academic year. A deposit of \$5.00 is required, which is returned when the uniform is turned in.

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 semester and ascertain the amount of credit which can be given them on account of such previous military instruction.

<i>First Year</i>		Hours	<i>Second Year</i>		Hours
Military Fundamentals .....	11		Leadership .....	36	
Military Sanitation and First Aid...	6		Infantry Weapons .....	18	
Military Organization .....	8		Combat Training .....	42	
Map Reading .....	16				
Leadership .....	40				
Rifle Marksmanship .....	15				

#### ADVANCED COURSE

This course consists of five hours per week (three credit hours per semester) during the junior and senior years. It is open to all students who have satisfactorily completed the basic course, provided they have been selected by the President of the University and the Professor of Military Science and Tactics. A deposit of \$10 is required, which is returned to the student when he has United States pay credits sufficient to cover the cost of his uniform. During this course the government not only furnishes uniforms and equipment, but also allows commutation of subsistence, which at the present time is 25 cents per calendar day. Upon 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. Chemistry majors are commissioned in the Chemical Warfare Service. Promotions thereafter are made in accordance with Army Regulations governing the Organized Reserve.

The advanced course, once entered upon, must be completed as a prerequisite for graduation.

Instruction consists of theoretical classroom work with proper preparation of subjects for recitations, and practical work either indoors or out, putting into execution the lessons learned.

#### 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 must 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, and pay at the rate of 70 cents per day, while in attendance at the camp, is allowed. Clothing, equipment, medical attention, and food 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.

<i>First Year</i>		Hours	<i>Second Year</i>		Hours
Aerial Photograph Reading .....	5		Military History and Policy .....	16	
Leadership .....	34		Military Law .....	16	
Infantry Weapons .....	50		Officers Reserve Corps Regulations..	2	
Combat Training .....	60		Leadership .....	40	
Motor Vehicles .....	4		Weapons .....	8	
Administration .....	7		Combat Training .....	75	
			Property and Funds .....	3	

## THE UPPER COLLEGES

### BUCHTEL COLLEGE OF LIBERAL ARTS

CHARLES BULGER, PH.D., *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, and is known as Buchtel College of Liberal Arts.

#### OBJECTIVES OF THE LIBERAL ARTS COLLEGE WITH REFERENCE TO ITS STUDENTS

1. To acquaint them with the world of nature and human life by giving them a survey of the chief fields of knowledge.
2. To train them in the scientific method, and help them form habits of clear thinking.
3. To arouse their intellectual curiosity and stimulate their scholarly growth.
4. To give them the necessary general preparation for post-graduate study; for entering schools of law, medicine, dentistry, and other professions; or for careers in art, music, and other cultural fields.
5. To help them appreciate beauty in all its forms, and thus furnish them with resources for enjoying their leisure hours.
6. To develop and strengthen in them a sense of social responsibility in order that they may have a proper regard for the rights of others, and to prepare them for an active and intelligent citizenship.
7. To help them acquire good manners and develop a moral strength adequate to cope with the various situations in which they find themselves.

#### DIVISIONS OF THE LIBERAL ARTS COLLEGE

Buchtel College of Liberal Arts includes three divisions : Humanities, Social Sciences, and Natural Sciences.

The allocation of departments and particular fields of study to the several colleges does not mean that election of courses is restricted to students enrolled in a particular college. The student may cross college lines, under proper supervision, should this be necessary to enable him to select the courses best suited to his needs.

### SUBJECTS OF INSTRUCTION IN THE DIVISIONS

The departments and subjects of instruction are grouped under the divisions as follows:

HUMANITIES	NATURAL SCIENCES	SOCIAL SCIENCES
Art	Biology	Commerce
Latin and Greek	Chemistry	Economics
English	Mathematics	History
Modern Languages	Physics	Home Economics
Music		Political Science
Philosophy		Secretarial Science
Speech		Sociology

### ENTRANCE REQUIREMENTS

In order to be enrolled in a division, the student must have completed with a quality point ratio of two, 64 semester hours in the General College (including the required courses in general education), including such prerequisites as may be prescribed for his field of concentration.

The admission of students to the Upper College is a responsibility of the academic deans in consultation with the Dean of Students and the heads of the departments concerned.

### FIELDS OF CONCENTRATION

Each student chooses some field of concentration within the division. These fields of concentration vary, depending upon the student's preparation, interests, and objectives. The chief aim is to have the student pursue, under the guidance of the department head and the divisional chairman, that program of studies which most adequately meets his individual needs. The emphasis is not on any prescribed and inflexible program which all students must take, but rather on the individual student himself and what will best prepare him for his future work.

### DIVISIONAL MAJORS

For students who do not desire any narrower field of concentration than the division itself, the following divisional majors are provided:

*In Humanities*, at least 49 hours in the division, at least 18 hours of which must be in courses of 100 level or above.

*In Social Science*, consult the divisional chairman.

*In Natural Science*, at least five semester courses on the upper college level. These courses may be taken in two or more departments, if the student has had the necessary prerequisites.

Students choosing divisional majors, in humanities or the social sciences, are required to pass a general final examination in the second semester of the senior year.

### DEGREES

The following degrees are granted in the divisions:

*The Humanities:* A. B.; B. S. in Applied Art.

*The Social Sciences:* A. B.; B. S. in Business Administration;  
B. S. in Secretarial Science.

*The Natural Sciences:* B. S. (However, at the discretion of the divisional chairman, students majoring in mathematics may be granted the A. B. degree if much of their work is in the humanities or social sciences.)

### REQUIREMENTS FOR GRADUATION

1. A minimum of 128 semester hours, including the work in the General College.
2. A minimum quality point ratio of two in the major field and for all work attempted.
3. The recommendation of the student's major professor.
4. Except in commerce and secretarial science, completion of the second year of a foreign language on the university level.
5. Exclusive of the required courses in general education in the General College, students are expected to take at least fifty per cent—and it is desirable that they take not more than seventy-five per cent—of their total work for graduation in their major division.

### PREPARATION FOR HIGH SCHOOL TEACHING

All Liberal Arts students who wish to prepare for high school teaching must register with the Dean of the College of Education two years prior to the time at which they expect to begin teaching.

Each prospective high school teacher is expected to be prepared to teach in one major and two minor fields, according to the grouping of subjects by the State Department of Education.

Each student will be required to pass the qualifying examination before entering upon practice teaching.

For additional information concerning requirements see College of Education.

Professional requirements and their sequence:

*Second Year General College*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
General Psychology .....	3	Educational Psychology .....	3
Introduction to Education .....	3		
(first or second semester)			

*First Year Upper College*

Methods .....	3	*Tests and Measurements .....	2
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*Second Year Upper College*

Principles of Education .....	3	Student Teaching .....	6
		School Management .....	2

OR

Student Teaching .....	6	Principles of Education .....	3
School Management .....	2		

OR

THE ARTS-TEACHERS COMBINATION COURSE

A five-year combination Liberal Arts-Education program, leading to the degree Bachelor of Arts and the degree Bachelor of Arts in Education, is offered students preparing for teaching. Students interested in taking such a combination course should confer with the Dean of the College of Education before entering the Upper College.

\* People who have taken Educational Psychology 52 since September, 1939, are exempt from this requirement.

## THE HUMANITIES DIVISION

### OBJECTIVES OF THE HUMANITIES DIVISION

1. To develop in the student an awareness of, and appreciation for, man's cultural heritage in literature, art, music, and philosophy, together with an understanding of the necessity for its preservation and enrichment.
2. To send out into the world men and women who not only can do things but also can understand things; who view the present in its proper relation to the past; who remain hopeful because they have enjoyed an ennobling acquaintance with the aspirations and achievements of the world's great creative artists; who are better citizens because they are thoughtful citizens; who are happier human beings because they can enjoy the use of their own minds.
3. To aid the student in his efforts to express himself clearly and forcefully in his mother tongue.
4. To motivate the student toward independent study so that he may continue to pursue his aesthetic and philosophical interests after he has finished his college work.
5. To offer the student such training in the individual subject fields that he may be able to pursue his chosen study beyond his undergraduate work.
6. To encourage the student to develop latent creative ability.

### DEGREES

The degrees granted in this division are A.B.; B.S. in Applied Art.

### ART

ASSOCIATE PROFESSOR BARNHARDT, ASSISTANT PROFESSOR CABLE,  
MR. FRENCH, MISS RIBLET, MR. NOVOTNY

*Prerequisites in the General College:* To enter art as a field of concentration, students should have completed in the General College the following courses in addition to the required courses in general education: Structural Art, 2 credits; Art Appreciation, 4 credits; Design, 4 credits; Drawing and Rendering, 4 credits; Modeling, 4 credits; and the second year of a foreign language. Courses suggested but not required: Psychology 41-42, Sociology 41, Shakspeare 41.

*General Final Examination:* Students majoring in art will be required, in the second semester of the senior year, to pass a general final examination in the subject.

#### *Required Courses in the Upper College:*

	Cr. Hrs.
History of Art .....	6
Commercial Art .....	4
Graphic Arts .....	4
Crafts .....	4
Weaving .....	4
Costume .....	6
Interior Decoration .....	6
Illustration .....	4
Figure Drawing .....	4
Classical and Medieval Art .....	3
	45

*Suggested Electives:* Ancient and Medieval History, 12 credits; Greek Masterpieces, 4 credits; Drama, 6 credits.

## GENERAL COLLEGE

- 21. STRUCTURAL ART. Either semester. 2 credits.
- 22. DESIGN. Second semester. 2 credits. Prerequisite, 21.
- 29-30. APPRECIATION OF ART. 2 credits each semester.
- 43. ADVANCED DESIGN. First semester. 2 credits. Prerequisite, 22.
- 45-46. DRAWING AND RENDERING. 2 credits each semester.
- 47-48. STILL LIFE. 2 credits each semester. Prerequisite, 46.
- 59. CLAY MODELING. First semester. 2 credits. Prerequisite, 22.
- 60. MODELING. Second semester. 2 credits. Prerequisite, 59.

## UPPER COLLEGE

- 101-102. CRAFTS, APPLIED DESIGN. 2 credits each semester.  
Prerequisite, 43.
  - 104. GRAPHIC ARTS: DRY-POINT ETCHING, BLOCK PRINTING.  
Second semester. 2 credits. Prerequisite, 46.
  - 105. GRAPHIC ARTS: ACID ETCHING, STENCIL, PROVINCETOWN  
PRINT. First semester. 2 credits. Prerequisite, 104.
  - 106-107. WEAVING. 2 credits each semester. Prerequisite, 43.
  - 113. CLASSICAL AND MEDIEVAL ART. First semester. 3 credits.  
Given in cooperation with the department of Latin and Greek.
  - 131-132. COMMERCIAL ART. 2 credits each semester.  
Prerequisite, 22, 45. 1940-41 and alternate years.
  - 141-142. ADVANCED COMMERCIAL ART. 2 credits each semester.  
Prerequisite, 132.
  - 151-152. COSTUME. 3 credits each semester. Prerequisite, 43.  
1941-42 and alternate years.
  - 161-162. COSTUME. 2 credits each semester. Prerequisite, 43.  
Evening and Summer sessions.
  - 171-172. INTERIOR DECORATION. 3 credits each semester.  
Prerequisite, 43. 1940-41 and alternate years.
  - 175-176. FIGURE DRAWING. 2 credits each semester.  
Prerequisite, 112. Fee, \$1.50 each semester.
  - 179-180. ILLUSTRATION. 2 credits each semester. Prerequisite, 176.  
1941-42 and alternate years.
  - 201. HISTORY OF ART, RENAISSANCE. First semester. 3 credits.  
Prerequisite, 113.
  - 202. HISTORY OF ART, MODERN. Second semester. 3 credits.  
Prerequisite, 201.
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- 181-182. INTERIOR DECORATION. 2 credits each semester.  
Prerequisite, 43. Evening and Summer sessions.
211. CLASSICAL AND MEDIEVAL ART. 2 credits.  
Evening and Summer sessions.
212. HISTORY OF ART, RENAISSANCE. First semester. 2 credits.  
Evening and Summer sessions.
213. HISTORY OF ART, MODERN. Second semester. 2 credits.  
Evening and Summer sessions. Prerequisite, 212.

## ENGLISH

PROFESSORS SPANTON AND PEASE; MR. VANCE (*Journalism*);  
ASSISTANT PROFESSORS HAMILTON, ROBERTS, KEISTER and RAW;  
MRS. PUTMAN, MRS. WHITNEY, MR. THACKABERRY, MR. CAMPBELL,  
MRS. WALKER, MR. BLOOMFIELD, MR. DUKE, MRS. THACKABERRY

*Required Courses:* Students majoring in English must take, in the General College, Shakspeare 41, Short Story Writing 43-44, or Essay Writing 63-64, and American Literature 47-48. These courses should be taken in the sophomore year; certainly not later than the junior year. In the Upper College students must take at least 20 hours in the department, exclusive of courses in Journalism and including Chaucer 201 and History of the English Language 162. They are also expected to take Greek Masterpieces in Translation 149-150, Latin Masterpieces in Translation 152, and English History 151-152.

*General College Courses Suggested:* Appreciation of Art 29-30, Appreciation of Music 22, Typewriting 31, American History 41-42.

## GENERAL COLLEGE

- 1-2. ENGLISH, ORAL AND WRITTEN. 3 credits each semester.  
Described in the General College section.
41. SHAKSPERE. First semester. 3 credits.  
Required of English majors for graduation. Students planning to major in English should elect this course in the sophomore year.
42. WORD STUDY. Second semester. 2 credits.
45. APPRECIATION OF PROSE. Either semester. 3 credits.
46. APPRECIATION OF POETRY. Either semester. 3 credits.
50. APPRECIATION OF THE DRAMA. Either semester. 3 credits.

Courses 45, 46, and 50 constitute the General College program in appreciation of literature. They may be taken in any order. Prerequisite for any of these courses is normally English 2.

Each unit of the work offers a critical approach to specific literary forms, and the three units combine to provide an introduction to general reading and to an understanding of the contribution made by literature to a well-rounded life. Required readings include both standard literary works and contemporary writings.

- 47-48. AMERICAN LITERATURE SINCE 1820. 3 credits each semester.

43-44. SHORT STORY WRITING. 2 credits each semester. 1940-41 and alternate years. Required for English majors. Prerequisite, 2.

63-64. ESSAY WRITING. 2 credits each semester. 1941-42 and alternate years. Prerequisite, 2. Required for English majors.

Both 43-44 and 63-64 are courses in advanced composition for students who have some special aptitude for writing.

#### JOURNALISM

51. NEWS WRITING. First semester. 3 credits. The class meets two periods each week. The third credit is given for laboratory work on the student newspaper.

52. NEWS WRITING. Second semester. 3 credits. A continuation of 51, but may be taken either before or after it.

53. NEWS WRITING AND EDITING. First semester. 2 credits. Evening session only.

55. HISTORY OF JOURNALISM. First semester. 2 credits. 1940-41 and alternate years.

56. FEATURE WRITING. Second semester. 2 credits.

57. EDITORIAL WRITING. First semester. 2 credits. 1941-42 and alternate years.

#### UPPER COLLEGE

102. SIXTEENTH CENTURY LITERATURE. Second semester. 3 credits. 1940-41 and alternate years.

103. SEVENTEENTH CENTURY LITERATURE. First semester. 3 credits. 1941-42 and alternate years.

104. EIGHTEENTH CENTURY LITERATURE. Second semester. 3 credits. 1941-42 and alternate years.

105-106. NINETEENTH CENTURY LITERATURE. 3 credits each semester. 1940-41 and alternate years.

112. TENNYSON AND BROWNING. Second semester. 3 credits. 1941-42 and alternate years.

113-114. THE ENGLISH BIBLE AS LITERATURE. 3 credits each semester. 1940-41 and alternate years.

116. AMERICAN LITERATURE (1620-1820). Second semester. 3 credits. 1941-42 and alternate years.

117. CONTEMPORARY BRITISH POETRY. First semester. 2 credits. 1940-41 and alternate years.

118. CONTEMPORARY AMERICAN POETRY. Second semester.  
2 credits. 1940-41 and alternate years.
- 121-122. ENGLISH FICTION: DEVELOPMENT OF THE NOVEL.  
3 credits each semester. 1941-42 and alternate years.
- 131-132. SEMINAR. 2 credits each semester. Required of senior  
English majors.
162. HISTORY OF THE ENGLISH LANGUAGE. Second semester.  
3 credits. 1941-42 and alternate years.
201. CHAUCER. First semester. 3 credits. 1941-42 and alternate  
years.
- 203-204. THE DRAMA. 3 credits each semester. 1940-41 and alter-  
nate years.
- 205-206. ANGLO-SAXON. 3 credits each semester.  
All English majors intending to teach should take this course. 1940-41  
and alternate years. No credit given toward graduation for less than  
the full year's work.
- 207-208. MIDDLE ENGLISH. 3 credits each semester.  
No credit given toward graduation for less than the full year's work.  
1941-42 and alternate years.
209. SHAKSPERE. Second semester. 3 credits.  
An intensive study of three selected plays.
212. MILTON. Second semester. 2 credits.  
A study of Milton's poetry and prose, with emphasis upon Paradise  
Lost and Samson Agonistes. 1941-42 and alternate years.

## JOURNALISM

- 153-154. EDITING. 2 credits each semester. Prerequisite, News  
Writing 51-52 or the equivalent.

## LATIN AND GREEK

## PROFESSOR YOUNG

*Required courses for majors: in the General College, Latin 43-44; in the  
Upper College, Latin and Greek Masterpieces.*

*General College courses suggested: Shakspeare 41, Psychology 41-42.*

*Major: Twenty-four hours of Latin.*

*General Final Examination: Students majoring in this department are sub-  
ject to general final examination in their senior year to test their achievement in  
their chosen field of study.*

## GENERAL COLLEGE

At least two units of high school Latin are required in order to enter Latin  
21. Students presenting four units for admission are expected to enrol in Course  
43; those presenting three units should consult the instructor.

Credit toward graduation is not given for less than a full year's work in  
elementary Greek.

21. CAESAR AUGUSTUS: RES GESTAE, AND NEPOS: LIFE OF HANNIBAL. First semester. 3 credits.
22. CICERO: LETTERS, AND PLINY: LETTERS. Second semester. 3 credits. Prerequisite, 21, or high school equivalent.
43. OVID: METAMORPHOSES. First semester. 3 credits. Prerequisite, 22, or 4 high school credits.
44. PLAUTUS: MOSTELLARIA, AND APULEIUS: GOLDEN ASS. Second semester. 3 credits. Prerequisite, 43, or high school equivalent.
- 21-22. ELEMENTARY GREEK. 4 credits each semester. 1940-41 and alternate years.
- ADVANCED GREEK will be given on sufficient demand.
99. CLASSICAL MYTHOLOGY. Second semester. 3 credits. 1941-42 and alternate years.

## UPPER COLLEGE

105. HORACE: ODES. First semester. 3 credits. Prerequisite, 44. 1941-42 and alternate years.
106. VERGIL: AENEID, AND JUVENAL: SATIRES. Second semester. 3 credits. Prerequisite, 44. 1941-42 and alternate years.
107. CATULLUS, AND VERGIL: GEORGICS. First semester. 3 credits. Prerequisite, 44. 1940-41 and alternate years.
108. LATIN EPIGRAPHY, AND SUETONIUS: LIVES OF CAESARS. Second semester. 3 credits. Prerequisite, 44. 1940-41 and alternate years.
- 109-110. LATIN PROSE COMPOSITION. 1 credit each semester. Indispensable for prospective graduate students and candidates for teaching positions. Prerequisite, 44. 1940-41 and alternate years.
112. CLASSICAL SEMINAR. Second semester. 1 credit. Prerequisite, senior rank. Required for majors.
152. LATIN MASTERPIECES IN ENGLISH TRANSLATIONS. Second semester. 3 credits. 1940-41 and alternate years. Required for majors.
113. CLASSICAL AND MEDIEVAL ART. First semester. 3 credits.
- 149-150. GREEK MASTERPIECES IN ENGLISH TRANSLATIONS. 2 credits each semester. 1941-42 and alternate years. Required for majors.
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## MODERN LANGUAGES

PROFESSOR BULGER, ASSOCIATE PROFESSOR REED,  
ASSISTANT PROFESSORS FANNING AND INTERNOSCIA,  
MR. ALBRECHT, MR. HILTON, MR. GLENNEN

Students who concentrate in foreign languages at the upper level are required to take, toward the end of the senior year, a general final examination in the language particularly emphasized.

Major: At least 24 hours in one language.

Credit for college work in Modern Languages is indicated by the following table:

High School Credits	Course Entered in College	Credit Given
1 unit	First year	Full credit
	*Second year	Full credit
2 units	Second year	Full credit
	First year	Half credit
	†Third year	Full credit
3 units	Second year	Half credit
	First year	No credit
4 units	Third year	Full credit
	Second year	No credit

\* Superior students may enter the second year course.

† Superior students may enter the third year course.

Credit toward graduation is not given for less than a full year's work in the first year of a modern language.

## GENERAL COLLEGE

- 21-22. FIRST YEAR FRENCH. 4 credits each semester.  
43-44. SECOND YEAR FRENCH. 3 credits each semester.  
Prerequisite, 21-22.
- 21-22. FIRST YEAR GERMAN. 4 credits each semester.  
43-44. SECOND YEAR GERMAN. 3 credits each semester.  
Prerequisite, 21-22.
- 21-22. FIRST YEAR SPANISH. 4 credits each semester.  
43-44. SECOND YEAR SPANISH. 3 credits each semester.  
Prerequisite, 21-22.

## UPPER COLLEGE

- 101-102. THIRD YEAR FRENCH: THE FRENCH NOVEL. 2 credits each semester. Prerequisite, 44.
- 103-104. FRENCH COMPOSITION. 2 credits each semester.  
Prerequisite, 44.
105. FRENCH PHONETICS. First semester. 1 credit.

209 to 216. ADVANCED FRENCH. 3 credits each semester.  
Prerequisite, 102 or 104.

Two of the following French courses are given each year :

209-210. MODERN FRENCH LITERATURE.

211-212. SURVEY OF FRENCH LITERATURE.

213-214. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY.

215-216. HISTORY OF THE FRENCH NOVEL TO THE NINETEENTH CENTURY.

101-102. GERMAN DAILY LIFE AND COMPOSITION. 3 credits each semester. Prerequisite, 44.

207 to 218. ADVANCED GERMAN. 3 credits each semester.  
Prerequisite, 44.

One of the following German courses is offered each year :

207-208. SCHILLER.

209-210. GOETHE.

211-212. SURVEY OF GERMAN LITERATURE.

213-214. MODERN GERMAN DRAMA.

215-216. FAUST.

217-218. SHORT STORY.

One of the following Spanish courses is offered each year :

103-104. APPLIED SPANISH COMPOSITION. 3 credits each semester.  
Prerequisite, 44.

207-208. MODERN SPANISH LITERATURE. 3 credits each semester.  
Prerequisite, 44.

209-210. SPANISH LITERATURE OF THE GOLDEN AGE AND EIGHTEENTH CENTURY (1550-1800). 3 credits each semester.  
Prerequisite, 44.

211-212. SURVEY OF SPANISH LITERATURE. 3 credits each semester.  
Prerequisite, 44.

## MUSIC

ASSISTANT PROFESSORS ENDE AND RIDER, MR. STARR,  
MR. STEIN, MISS WILLS, MR. FUNKHOUSER

The work in music is open to election by all students of the University who are properly qualified to take the courses offered, and may be included in certain fields of concentration in the Humanities Division and in the College of Education. All theory courses may be taken for credit, but not more than 8 credits of instruments or voice and 4 credits of choral work, orchestra, or band may be counted toward a degree except in the School Music course. Those desiring instruction in music must arrange for it on registration days as part of their regular assignment of work for the semester. If a student wishes to major in music, he must have reached a satisfactory degree of achievement in voice, or in some instrument before entering college.

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*Prerequisites for Majors:* To enter music as a field of concentration, the student must have credit in the General College for General Theory 21, Appreciation of Music 22, and Elementary Harmony 43-44. Other General College courses suggested, are: Psychology 41-42, Philosophy 55-56, and Shakspeare 41.

*General Final Examination:* Majors in music will be required, in the second semester of the senior year, to pass a general final examination in the theory and history of music.

*Requirements:* The requirements for a music major leading to the A.B. degree are 41 credits in music in addition to the general requirements for a degree. Of this number 29 credits must be in theory and 12 credits in applied music. The requirements in applied music are 8 credits of instruments or voice and 4 credits of glee club or orchestra.

#### GENERAL COLLEGE

21. GENERAL THEORY. Either semester. 1 credit.  
A general introductory course required of all students taking individual lessons in applied music. Not required of students in the voice classes unless they wish credit, in which case they may substitute Introduction to Music 81.
22. APPRECIATION OF MUSIC. Either semester. 2 credits.
- 43-44. ELEMENTARY HARMONY. 2 credits each semester.  
Prerequisite, the ability to play hymns on the piano.
- 45-46. VOICE CLASS. 1 credit each semester.
- 47-48. ADVANCED VOICE CLASS. 1 credit each semester.  
Prerequisite, 46.

#### UPPER COLLEGE

- 101-102. ADVANCED HARMONY. 2 credits each semester.  
Prerequisite, 44.
- 103-104. COUNTERPOINT. 2 credits each semester. Prerequisite, 44.
- 105-106. HISTORY OF MUSIC. 2 credits each semester.  
Prerequisite, 22.
108. FORM AND ANALYSIS. Second semester. 3 credits.  
Prerequisite, 101 and 103.
109. KEYBOARD HARMONY. First semester. 2 credits.  
Prerequisite, 102.
111. COMPOSITION. First semester. 2 credits. Prerequisite, 102 and 108.
113. CONDUCTING. First semester. 2 credits. Prerequisite, permission of the instructor.
114. ORCHESTRATION. Second semester. 3 credits.  
Prerequisite, 102.
- 115-116. WIND INSTRUMENT CLASS. 1 credit each semester.
- 117-118. STRING INSTRUMENT CLASS. 1 credit each semester.

## APPLIED MUSIC

Credit for individual lessons in applied music in the College of Liberal Arts is allowed only on the basis of 2 credits in theory for 1 credit in applied music.

General Theory or Sight Singing required: Students taking individual lessons in applied music are required to take General Theory 21 concurrently during the first semester of study. Students taking class lessons will receive no credit until General Theory or one semester of Sight Singing is taken. Class lessons cannot be substituted for individual lessons where instruments or voice are required.

Students in applied music may be required from time to time to participate in recitals or appear before a committee selected for the purpose of judging their progress.

Not more than one credit of choral work may be earned in a semester.

INDIVIDUAL LESSONS: Two half-hour lessons a week, 2 credits each semester, \$60. One half-hour lesson a week, 1 credit each semester, \$30.

ORGAN. 1 or 2 credits each semester. (Organ rental by special arrangement.)

PIANO. 1 or 2 credits each semester.

VIOLIN. 1 or 2 credits each semester.

VOICE. 1 or 2 credits each semester.

WIND INSTRUMENTS. 1 or 2 credits each semester.

## MUSICAL ORGANIZATIONS

MEN'S GLEE CLUB. 1 credit each semester.

WOMEN'S GLEE CLUB. 1 credit each semester.

MIXED CHORUS. 1 credit each semester.

ORCHESTRA. 1 credit each semester.

BAND. 1 credit each semester.

## PIXLEY SCHOLARSHIPS IN MUSIC

See section on Scholarships and Prizes.

## PHILOSOPHY

## PROFESSOR WOOD

Students may choose a combination of Philosophy and Psychology as a field of concentration, but not Philosophy or Psychology alone. Prerequisites in the General College are Philosophy 55-56, and Psychology 41-42; Sociology 41-42 and Shakspeare 41 are suggested.

*Required Upper College courses:* All the courses offered in Philosophy, and, ordinarily, the following courses in Psychology: Child Psychology, Mental Hygiene, Abnormal Psychology, Experimental Psychology, Social Psychology, Genetic Psychology, and Psychology of Adolescence.

*General Final Examination:* Students majoring in Philosophy and Psychology will be required to pass a general final examination the second semester of the senior year.

## GENERAL COLLEGE

55. INTRODUCTION TO PHILOSOPHY. First semester. 3 credits.  
56. THE FIELD OF PHILOSOPHY. Second semester. 3 credits.  
Prerequisite, 55.

## UPPER COLLEGE

103. HISTORY OF PHILOSOPHY. First semester. 3 credits.  
Prerequisite, 56. 1940-41 and alternate years.  
104. LOGIC. Second semester. 3 credits.  
1940-41 and alternate years.  
105. ETHICS. First semester. 3 credits.  
1941-42 and alternate years.  
106. PHILOSOPHY OF RELIGION. Second semester. 3 credits.  
1941-42 and alternate years.

See College of Education for courses in Psychology.

## SPEECH

PROFESSOR HITCHCOCK, ASSISTANT PROFESSOR RABE,  
MR. VARIAN, MRS. CURRY, MR. TURNER, MR. KIDDER

*Prerequisites:* To enter speech as a field of concentration the student must have credit in the General College for Speech 41. Interpretation 51 is strongly recommended. For General College courses suggested, see General College section under requirements for promotion.

24 credit hours constitute a major in speech. The following courses are required: 41, 51, 172, 191, 192, and 193.

*General Final Examination:* Students majoring in speech are required, in the second semester of the senior year, to take a general final examination covering the field.

## GENERAL COLLEGE

41. PUBLIC SPEAKING. Either semester. 3 credits.  
42. ADVANCED PUBLIC SPEAKING. Either semester. 3 credits.  
Prerequisite, 41.  
45-46. ORAL ARGUMENT. 2 credits each semester. Prerequisite, 41.  
47. BUSINESS AND PROFESSIONAL SPEAKING. Either semester.  
2 credits.  
48. ADVANCED BUSINESS AND PROFESSIONAL SPEAKING. Either  
semester. 2 credits.  
51. INTERPRETATION (READING ALOUD). First semester. 3 credits.  
52. ADVANCED INTERPRETATION. Second semester. 3 credits.

56. PUBLIC DISCUSSION AND GROUP PROCEDURE. Second semester. 3 credits. Prerequisite, permission.
- 57-58. INTERCOLLEGIATE DEBATE. 1 or 2 credits each semester.
- 59-60. INTERCOLLEGIATE DEBATE. 1 or 2 credits each semester.
- 65-66. SPEECH IMPROVEMENT. 1 credit each semester.
67. HISTORY OF THE THEATER. First semester. 3 credits.
76. FUNDAMENTALS OF SPEECH. Either semester. 3 credits.  
For students in the College of Education.

## UPPER COLLEGE

143. FORMS OF PUBLIC ADDRESS. First or second semester. 3 credits. 1940-41 and alternate years.
144. FORMS OF PUBLIC ADDRESS. First semester. 3 credits. 1941-42 and alternate years.
154. VOICE TRAINING. Either semester. 1 credit.
161. PLAY PRODUCTION. First semester. 3 credits. Fee, \$2.00.
162. ADVANCED PLAY PRODUCTION. Second semester. 3 credits. Fee, \$2.00.
- 163-164. ACTING. 3 credits each semester. Prerequisite, 51.
- 165-166. SPEECH IMPROVEMENT (ADVANCED). 1 credit each semester.
172. SPEECH SCIENCE AND SPEECH CORRECTION. Second semester. 3 credits. 1941-42 and alternate years.
181. RADIO SPEAKING. Either semester. 3 credits. Fee, \$1.00.
- 191-192. SEMINAR: HISTORY AND DEVELOPMENT OF SPEECH. 2 credits each semester.
193. SPEECH SEMINAR: RESEARCH. Second semester. 2 credits.
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## THE SOCIAL SCIENCE DIVISION

### OBJECTIVES OF THE SOCIAL SCIENCE DIVISION

To give students cultural and useful information in the fields of commerce, economics, history, home economics, political science, secretarial science, and sociology.

To prepare students for graduate study in the professions, in public service, and in business; and in so doing to emphasize sound methods of inquiry, fair criticism, and love of truth.

To inculcate in students a sense of social responsibility, and a respect for the opinions and the rights of others; to equip them with a knowledge of human relationships and with qualities of leadership so that they may function worthily in, and seek to improve, our social order; and to enable them to enjoy human fellowship and to maintain a saving sense of humor in the process of social adjustment.

To supply the local community with expert service in the field of social science.

### DEGREES

The degrees granted in this division are A.B.; B.S. in Business Administration; and B.S. in Secretarial Science.

### COMMERCE

PROFESSOR LEIGH, ASSISTANT PROFESSORS MCKEE, HAMPEL,  
TOUSLEY AND HILLIARD, MR. DAVIS, MR. BAILEY, MR. WIARD,  
MR. POWERS, MR. BUSBEY, MR. REED, MR. HERSH,  
MR. BERRY, MR. MEEKS, MR. SORENSON

The department of commerce offers professional training to young men and women who plan to enter the fields of industry, trade, or transportation. The curriculum 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 lectures, inspection trips, and problems the student is kept in touch with the actual developments in the various phases of commerce.

In addition to the 36 hours specified in the General College requirements, the following specific requirements should be met for admission to the commerce department: Accounting 21-22; Business Administration 61; Selling and Advertising 81; Economics 41-48. For General College courses recommended but not required, see General College section.

For a degree in business administration, the following additional requirements must be taken during the second or third year: Analytical Accounting 43, Economic Geography 54, Typewriting 31.

The degree of Bachelor of Science in Business Administration will be granted to those students who complete the prescribed curriculum in Business Administration, including two hours of seminar.

## THE BUSINESS ADMINISTRATION COURSE

<i>Third Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Business Law 141 .....	3	Business Law 142 .....	3
Marketing 183 .....	3	†Business Management 162 or } .....	3
Business Finance 171 .....	3	†Advertising 185 .....	3
§Approved Elective .....	3	Statistics 147 .....	4
		§Approved Elective .....	3

<i>Fourth Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Electives in Majors .....	6	Electives in Majors .....	6
Seminar .....	1	Business Policy 268 .....	3
		Seminar .....	1

In addition to the particular courses specified above, each business administration student will elect and complete 14 hours, including Seminar, in some major. Five fields of specialization are available to him; namely, Accounting, Finance, Advertising and Marketing, Management, and General Business. The courses applicable and required (starred courses required) toward each major are listed below.

## ACCOUNTING

Courses	Cr. Hrs.	Prerequisites
*Accounting 44 .....	3	.....Accounting 43
*Cost Accounting 46 .....	3	.....Accounting 43
Advanced Cost Accounting 127-128 .....	6	.....Accounting 43
Auditing 229 .....	3	.....Accounting 44
Advanced Accounting 231-232 .....	6	.....Accounting 44
Specialized Accounting Problems 235 .....	3	.....Advanced Accounting 231-232
Income Tax 233 .....	3	.....Consent of Instructor
Accounting Systems 230 .....	3	.....Consent of Instructor
*Seminar .....	2	

## FINANCE

Courses	Cr. Hrs.	Prerequisites
*Money and Banking 48 .....	3	
Economics 108 .....	3	.....Business Finance 171
Insurance and Risk Bearing 158 .....	3	.....Money and Banking 45
Banking Practice and Management 176 .....	3	.....Money and Banking 48
*Investments 172 .....	3	{ Money and Banking 48
		{ Business Finance 171
Security Markets 277 .....	3	.....Money and Banking 48
Problems in Finance 279 .....	3	{ Money and Banking 48
		{ Business Finance 171
*Seminar .....	2	

† Majors in management and accounting should take Business Management; majors in finance and marketing should take Advertising; majors in general business must take Business Management and Advertising.

§ The following courses are particularly recommended: Commercial Art, Labor Problems, Public Finance, Business Mathematics, Government and Business, Business Psychology, and Business Correspondence.

\* Required courses in the particular major.

## ADVERTISING AND MARKETING

Courses	Cr. Hrs.	Prerequisites
Commercial Art 131-132 .....	4	
*Advertising 185 .....	3	
Advanced Advertising 186 .....	3	Advertising 185
Retailing 192 .....	3	
Problems in Marketing 193 .....	3	
*Sales Administration 291 .....	3	Marketing 183
Market Analysis 296 .....	3	Marketing 183
*Seminar .....	2	

## MANAGEMENT

Courses	Cr. Hrs.	Prerequisites
*Cost Accounting 46 .....	3	9 hours of accounting
Personnel Administration IE-154 .....	3	Business Administration 61
Industrial Management Problems IE-156 .....	3	Personnel Administration IE-154
Purchasing 189 .....	2	Business Administration 61
*Sales Administration 291 .....	3	Marketing 183
*Seminar .....	1	

## GENERAL BUSINESS

Courses	Cr. Hrs.	Prerequisites
Cost Accounting 46 .....	3	9 hours of accounting
Transportation 155 or Foreign Trade	3	Money and Banking 48
Personnel Management 164 .....	3	Business Administration 61
*Advertising 185 .....	3	
Purchasing 189 .....	2	Money and Banking 48
Problems in Finance 279 .....	3	Business Finance 171
Sales Administration 291 .....	3	Marketing 183
*Seminar .....	2	

## GENERAL COLLEGE

- 21-22. ACCOUNTING. 3 credits each semester. No credit is given toward graduation for less than the full year's work.
- 41-42. SECRETARIAL ACCOUNTING. 3 credits each semester. A course designed especially for secretarial science students. However, such students may take either this course or Accounting 21-22.
43. ANALYTICAL ACCOUNTING. First semester. 3 credits.  
Prerequisite, 22.
44. INTERMEDIATE ACCOUNTING. Second semester. 3 credits.  
Prerequisite, 43.
46. COST ACCOUNTING. Second semester. 3 credits.  
Prerequisite, 43.
51. BUSINESS LAW. First semester. 3 credits.  
Designed especially for students in secretarial science.
54. ECONOMIC GEOGRAPHY. First semester. 3 credits.

\* Required courses in the particular major.

- 61. BUSINESS ADMINISTRATION. Either semester. 3 credits.
- 81. SELLING AND ADVERTISING. Either semester. 3 credits.
- 82. CONSUMER ECONOMICS. Second semester. 3 credits.

## UPPER COLLEGE

- 123. BUDGETING. First semester. 3 credits. Prerequisite, 43.
- 125. ENGINEERING ACCOUNTING. 3 credits.
- 127\*-228. ADVANCED COST ACCOUNTING. 3 credits each semester.  
Prerequisite, 43. 1941-42 and alternate years.
- 229. AUDITING. First semester. 3 credits. Prerequisite, 44.  
1940-41 and alternate years.
- 230. ACCOUNTING SYSTEMS. 3 credits. Prerequisite, 44.  
Given only when demand warrants.
- 231-232. ADVANCED ACCOUNTING. 3 credits each semester.  
Prerequisite, 44 or equivalent.
- 233-234. INCOME TAX. 3 credits each semester.  
Prerequisite, 44. Given in alternate years.
- 236. SPECIALIZED ACCOUNTING PROBLEMS. 3 credits.  
Prerequisite, 231. Open to accounting majors and to others by per-  
mission of the instructor.
- 141-142. BUSINESS LAW. 3 credits each semester.
- 144. LAW OF CREDIT AND COLLECTIONS. Second semester. 2 credits.
- 146. REAL ESTATE LAW. Second semester. 2 credits.
- 147. STATISTICS. Either semester. 4 credits. Prerequisite, 6 credits  
in Economics.
- 248. ADVANCED STATISTICS. 3 credits. Prerequisite, 147.  
Given only when demand warrants.
- 151. TRANSPORTATION. First semester. 3 credits. Prerequisite,  
Economics 41 and 48.
- 152. TRAFFIC MANAGEMENT. 2 credits. Prerequisite, 151.
- 156. FOREIGN TRADE. Second semester. 3 credits. Prerequisite,  
Economics 41 and 48.

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\* Credit will not be granted for both 46 and 127.

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158. **INSURANCE AND RISK BEARING.** First semester. 3 credits.  
Prerequisite, Economics 41 and 48.
162. **BUSINESS MANAGEMENT.** Second semester. 3 credits.  
Prerequisite, 61.
164. **PERSONNEL MANAGEMENT.** 3 credits. Prerequisite, 61.  
Given only when demand warrants.
268. **BUSINESS POLICY.** Second semester. 3 credits.  
Required of all commerce seniors.
171. **BUSINESS FINANCE.** First semester. 3 credits. Prerequisite,  
Economics 41 and 48.
172. **INVESTMENTS.** Second semester. 3 credits. Prerequisite, 171.
174. **CREDITS AND COLLECTIONS.** Second semester. 2 credits.  
This is a course covering the general principles of credit management.
176. **BANKING PRACTICE AND MANAGEMENT.** 3 credits.  
Prerequisite, Economics 48. Given only when demand warrants.
277. **SECURITY MARKETS.** Second semester. 3 credits.  
Prerequisite, 171.
279. **PROBLEMS IN FINANCE.** Second semester. 3 credits.  
Prerequisite, 171.
183. **MARKETING.** First semester. 3 credits. Open to juniors.  
Prerequisite, Economics 41 and 48.
185. **PRINCIPLES OF ADVERTISING.** Either semester. 3 credits.
186. **ADVANCED ADVERTISING.** Second semester. 3 credits.  
Prerequisite, 185.
189. **PURCHASING.** 2 credits. Given only when demand warrants.
192. **RETAILING.** Second semester. 3 credits. Prerequisite, junior  
standing or consent of instructor.
291. **SALES ADMINISTRATION.** Second semester. 3 credits.  
Prerequisite, 183.
293. **PROBLEMS IN MARKETING.** Second semester. 3 credits.  
Prerequisite, 183. Given in alternate years.
296. **MARKET ANALYSIS.** Second semester. 3 credits.  
Prerequisite, 190, or equivalent.
- 297-298. **SEMINAR.** 1 credit each semester. Required of all senior  
commerce majors.

## ECONOMICS

PROFESSOR O'HARA, ASSISTANT PROFESSOR FORD, MR. P. S. SHERMAN

Students emphasizing economics in their field of concentration are expected to take at least 24 hours of work in the field of economics. The courses included in this requirement are determined by the needs and interests of the individual student. In order to insure the best possible sequence of courses to meet the objectives of the student, it is important: (1) that the student select his field of concentration as early as possible in his course, and (2) that he consult the head of his department promptly and arrange his tentative program for the remaining years of his course.

The following courses are accepted in meeting the requirements for a degree in economics. Except as indicated, all have as prerequisites Economics 41 and 42, 44 or 48, (offered in the General College). In special cases, these prerequisites may be modified.

For General College courses suggested but not required, see General College section.

## GENERAL COLLEGE

- 41. PRODUCTION, PRICES, AND INCOME. First semester. 3 credits.
- 42. CURRENT ECONOMIC PROBLEMS. Second semester. 3 credits.
- 44. DEVELOPMENT OF ECONOMIC INSTITUTIONS. Either semester. 3 credits.
- 48. MONEY AND BANKING. Second semester. 3 credits.

## UPPER COLLEGE

- 106. LABOR PROBLEMS. Second semester. 3 credits.
- 108. PUBLIC FINANCE. Second semester. 3 credits.
- 141. ANALYTICAL ECONOMICS. First semester. 3 credits.
- 147. STATISTICS. Either semester. 4 credits.
- 155. TRANSPORTATION. First semester. 3 credits.
- 156. FOREIGN TRADE. Second semester. 3 credits.
- 171. BUSINESS FINANCE. First semester. 3 credits.  
Prerequisite, 48.
- 183. MARKETING. First semester. 3 credits.  
(Courses 147, 155, 156, 171, 183 are given in the commerce department.)
- 204. MONETARY AND BANKING POLICY. Second semester. 3 credits. Prerequisite, 48.
- 291. ECONOMIC CYCLES. First semester. 2 credits.
- 293. DEVELOPMENT OF ECONOMIC THOUGHT. First semester. 3 credits.
- 294. CONTEMPORARY ECONOMIC THOUGHT. Second semester. 3 credits.
- 298. SEMINAR IN ECONOMICS. Second semester. 2 credits.  
Required of all candidates for the degree with an economics major.

## HISTORY

PROFESSORS SAPPINGTON AND GARDNER,

ASSISTANT PROFESSOR MOORE, MR. GRIMES, MR. RUPPENTHAL

*General Final Examination:* In order to be recommended for a degree, students emphasizing history in the Division of Social Sciences will be required to pass a general final examination covering Historiography and four of the following fields: Ancient, Medieval European, Modern European, American, American Colonial.

## GENERAL COLLEGE

41. AMERICAN HISTORY THROUGH THE CIVIL WAR. First semester. 3 credits.
42. AMERICAN HISTORY SINCE THE CIVIL WAR. Second semester. 3 credits.
- 45-46. MODERN EUROPEAN HISTORY. 3 credits each semester.

## UPPER COLLEGE

111. ORIENTAL AND GREEK CIVILIZATION. First semester. 3 credits.
112. ROMAN CIVILIZATION. Second semester. 3 credits.
125. AMERICAN FRONTIER. First semester. 3 credits. 1941-42 and alternate years.
- 151-152. ENGLISH HISTORY. 3 credits each semester. 1941-42 and alternate years.
217. EARLY MEDIEVAL CIVILIZATION. First semester. 3 credits.
218. LATER MEDIEVAL CIVILIZATION. Second semester. 3 credits.
221. AMERICAN COLONIAL HISTORY. First semester. 3 credits. 1940-41 and alternate years.
222. FOUNDATIONS OF AMERICAN NATIONALITY. Second semester. 3 credits. 1940-41 and alternate years.
223. UNITED STATES IN THE LATER NINETEENTH CENTURY (1865-1900). First semester. 3 credits. 1941-42 and alternate years.
224. RECENT UNITED STATES. Second semester. 3 credits. 1941-42 and alternate years.
241. FRENCH REVOLUTION. First semester. 3 credits.
242. HISTORIOGRAPHY AND HISTORICAL METHODOLOGY. Second semester. 3 credits.
245. EUROPE 1870-1914. First semester. 3 credits. 1940-41 and alternate years.
246. RECENT EUROPE. Second semester. 3 credits.

## 412. INDIVIDUAL READING AND RESEARCH.

Open only to those who have completed an undergraduate major, or at least 24 hours, in history, and have received special permission from the chairman of the department. Not more than 3 credits will be given in any one semester.

## HOME ECONOMICS

PROFESSOR SWIFT, ASSISTANT PROFESSOR LATHROP,  
MRS. READ, MISS SULLIVAN, MRS. KLINGLER

Home Economics is a program of studies based on sound fundamental training in the physical, biological, and social sciences.

For subjects that home economics majors must take in the General College, see General College section.

Three majors in home economics are offered:

*Foods and Nutrition Major*, planned for those students whose professional interest may point to such commercial work as that of food analyst, nutritionist, camp director, or demonstrator, or whose interest may be in the many individual feeding idiosyncrasies. The field is rich for both men and women.

*Clothing or Textile Major*, for students who wish to prepare themselves to follow some line of clothing work in the commercial field. Students may begin work on this major in the freshman year.

*General Home Economics Major*, a non-professional major planned for students who wish a broad cultural background with the emphasis on effective home living.

Following are the home economics subjects required in the Upper College for the respective majors:

## FOODS AND NUTRITION

First Semester		<i>Third Year</i>		Second Semester	
	Cr. Hrs.				Cr. Hrs.
Advanced Foods 115 .....	3	Advanced Foods 116 .....			3
Nutrition 119 .....	3	Nutrition 120 .....			3
		Clothing 22 .....			3
		<i>Fourth Year</i>			
Child Development 125 .....	3				
Home Economics Education 151 .....	3				

## TEXTILES AND CLOTHING

		<i>Third Year</i>			
	Cr. Hrs.				Cr. Hrs.
Advanced Clothing 105 .....	3	Advanced Clothing 106 .....			3
		Home Management 122 .....			3
		<i>Fourth Year</i>			
Advanced Textiles 107 .....	3	Advanced Textiles 108 .....			3
Child Development 125 .....	3				
Historic Costume 117 .....	3				
Selection of House Furnishings 113 .....	3				

## GENERAL COURSE

		<i>Third Year</i>			
	Cr. Hrs.				Cr. Hrs.
Nutrition 119 .....	3	Nutrition 120 .....			3
Advanced Foods 115 .....	3	Advanced Foods 116 .....			3
		Home Management 122 .....			3
		<i>Fourth Year</i>			
Child Development 125 .....	3				
Selection of House Furnishings 113 .....	3				

## GENERAL COLLEGE

21. TEXTILES. First semester. 3 credits.  
 22. CLOTHING SELECTION. Second semester. 3 credits.  
 45-46. GENERAL FOODS. 3 credits each semester.  
 Laboratory fee, \$4.50 each semester. Credit not given for less than the full year's work.  
 53. HOME ECONOMICS SURVEY. First semester. 3 credits.

## UPPER COLLEGE

- 105-106. ADVANCED CLOTHING. 3 credits each semester.  
 107-108. ADVANCED TEXTILES. 3 credits each semester.  
 Fee, \$2.00 each semester.  
 118. SELECTION OF HOUSE FURNISHINGS. Second semester.  
 3 credits.  
 115-116. ADVANCED FOODS. 3 credits each semester.  
 Prerequisite, 45-46. Fee, \$5.00 each semester.  
 117. HISTORIC COSTUME. First semester. 3 credits.  
 119. NUTRITION IN HEALTH. First semester. 3 credits.  
 120. NUTRITION IN DISEASE. Second semester. 3 credits.  
 Credit not given for less than a year's work in Nutrition.  
 121. FIELD WORK IN HOME ECONOMICS. 2 credits.  
 Open to seniors.  
 112. HOME MANAGEMENT. Second semester. 3 credits.  
 125. CHILD DEVELOPMENT. First semester. 3 credits.  
 151. HOME ECONOMICS EDUCATION. 3 credits. First semester.

## POLITICAL SCIENCE

ASSOCIATE PROFESSOR SHERMAN, ASSISTANT PROFESSOR KING,  
 ASSISTANT PROFESSOR ZEIS

Students emphasizing political science in their field of concentration are expected to have at least 24 hours in the field of political science. Students preparing to teach will find that the State Department of Education considers political science and history as one subject major or minor.

*Prerequisites:* At least three hours of political science in the General College are required. These three hours may be selected from four courses, any one of which will satisfy the requirement: American National Government 41, American State and Local Government 42, Comparative Government 43, and American Diplomacy 44.

## GENERAL COLLEGE

41. AMERICAN NATIONAL GOVERNMENT. Either semester. 3 credits.  
 42. AMERICAN STATE AND LOCAL GOVERNMENT. Second semester.  
 3 credits.  
 43. COMPARATIVE GOVERNMENT. Second semester. 3 credits.  
 44. AMERICAN DIPLOMACY. First semester. 3 credits.

## UPPER COLLEGE

*Courses Offered Each Year*

103. POLITICAL PARTIES. First semester. 3 credits.  
 109. GOVERNMENT AND SOCIAL WELFARE. First semester. 3 credits.  
 110. GOVERNMENT AND BUSINESS. Second semester. 3 credits.  
 112-113. FIELD WORK IN PUBLIC ADMINISTRATION. 3 credits each semester.  
 Open only to senior majors with 6 hours of public administration. This course is for the student who wants a career in public service. It places him in contact with competent public officials and develops his ability in public administration.  
 115-116. POLITICAL THEORY. 2 credits each semester.  
 205. CONSTITUTIONAL LAW. First semester. 3 credits.  
 211. INTERNATIONAL RELATIONS. First semester. 3 credits.  
 212. INTERNATIONAL LAW. Second semester. 3 credits.  
 298. SEMINAR IN POLITICAL SCIENCE. Second semester. 2 credits. Required for senior majors. Seniors taking 112-113 may be excused from seminar.

*Courses Offered 1940-41 and Alternate Years*

101. MUNICIPAL GOVERNMENT. First semester. 3 credits.  
 102. MUNICIPAL ADMINISTRATION. Second semester. 3 credits.  
 206. MUNICIPAL CORPORATIONS. Second semester. 3 credits.

*Courses Offered 1941-42 and Alternate Years*

108. PARLIAMENTARY LAW AND LEGISLATIVE PROCEDURE. Second semester. 3 credits.  
 207. MUNICIPAL FINANCE. Second semester. 2 credits.  
 213-214. PUBLIC ADMINISTRATION. 3 credits each semester.

## SECRETARIAL SCIENCE

PROFESSOR DOUTT, ASSISTANT PROFESSORS FLINT AND TENNEY,  
 MRS. SELF, MR. SUMMERSGILL, MISS COHEN, MRS. LEISY,  
 MISS FUNK, MRS. WETTSTYNE, MISS EARLY

Students interested in preparing themselves for the higher grade secretarial and office positions may choose between two programs offered in Secretarial Science: a two-year certificate course, listed in the General College, and a four-year course which is essentially a combination of the technical work required in business and the broad cultural education needed for effective living. Considerable latitude is allowed for the planning of each individual's program to meet his particular needs.

*Admission:* Admission to the department is open to all who have satisfactorily met the requirements of the General College and who have completed one year of shorthand and typewriting (41-42 and 51-52 or equivalent). However, it is advisable to elect the other General College courses listed below.

*Combination Courses:* Two special five-year programs are available, each leading to two degrees: (1) Secretarial Science—Liberal Arts, and (2) Secretarial Science—Education. Those interested should confer with the head of the department.

*Requirements for Graduation:* In addition to the regular requirements of the University for graduation, students must pass a general final examination (field of specialization only) in the senior year.

*Shorthand and Typewriting:* Those who have had shorthand and typewriting before entrance will begin these courses in college at such point as their degree of proficiency permits as indicated by placement tests. Approved electives, preferably academic subjects, will be taken in place of the work omitted. Full credit will not be granted where undue repetition exists.

A program for students specializing in this field must include:

*First Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Secretarial Procedure 21 .....	3	Filing and Machine Calculation 26 .....	3

*Second Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Shorthand Theory 41 .....	3	Shorthand Theory 42 .....	3
Typewriting 51 .....	2	Typewriting 52 .....	2
Accounting 41 or 21 .....	3	Accounting 42 or 22 .....	3

*Third Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Intermediate Dictation 163 .....	4	Intermediate Dictation 164 .....	4
Economics 41 .....	3	Economics 42, 44 or 48 .....	3
Business Law 51 .....	3	Business Administration 61 .....	3
Business Correspondence 133 .....	3		

*Fourth Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Advanced Dictation 165 .....	4	Advanced Dictation 166 .....	4
Office Practice 293 .....	3	Office Organization and Management 296 .....	3

GENERAL COLLEGE

21. SECRETARIAL PROCEDURE. Either semester. 3 credits.
23. SECRETARIAL PROCEDURE. Either semester. 2 credits.  
Given in the evening only.
26. FILING AND MACHINE CALCULATION. Either semester. 3 credits.
31. TYPEWRITING (PERSONAL). Either semester. 2 credits.  
Fee, \$1.00.
35. BUSINESS ENGLISH. Either semester. 2 credits.
- 41-42. SHORTHAND THEORY. 3 credits each semester.  
Credit toward graduation is not given unless 42 is completed.

46. SHORTHAND REVIEW. Second semester. 3 credits.  
A thorough review of Gregg Shorthand Theory, covering one year's work. Credit not allowed for this course and also for 41-42.
51. TYPEWRITING. First semester. 2 credits. Fee, \$1.00.
52. ADVANCED TYPEWRITING 52: BUSINESS FORMS, TABULATING, AND DUPLICATING. Second semester, 2 credits. Fee, \$1.00.
- 63-64. ADVANCED SHORTHAND AND TRANSCRIPTION. 4 credits each semester. Prerequisite, 42 and 52, or equivalent.
74. SECRETARIAL TRAINING. 2 credits.  
Must accompany 64. Fee, \$1.00. Credited toward a certificate but not toward a degree. Prerequisite, 52.
- 83-84. INTERMEDIATE DICTATION. 3 credits each semester.  
Prerequisite, 42 and 52; also 35 and 93, or English 2. Fee, \$1.00 each semester.
85. INTERMEDIATE DICTATION. First semester. 2 credits.  
Prerequisite, Intermediate Dictation 84. Fee, \$1.00 each semester.
93. BUSINESS LETTERS. Either semester. 2 credits.

#### UPPER COLLEGE

133. BUSINESS CORRESPONDENCE. Either semester. 3 credits.  
Prerequisite, English 2.
- 163-164. INTERMEDIATE DICTATION. 4 credits each semester.  
Prerequisite, 42 and 52, or equivalent. Fee, \$1.00 each semester.
- 165-166. ADVANCED DICTATION. 4 credits each semester.  
Prerequisite, 64 or 164, or equivalent. Fee, \$1.00 each semester.
186. ADVANCED DICTATION. Second semester. 2 credits.  
Prerequisite, 85, or equivalent. Fee, \$1.00.
- 187-188. ADVANCED DICTATION. 3 credits each semester.  
Prerequisite, 86, or equivalent. Fee, \$1.00 each semester.
293. OFFICE PRACTICE. First semester. 3 credits.  
Prerequisite, 26 and 164. Fee, \$2.50.
296. OFFICE ORGANIZATION AND MANAGEMENT. Second semester.  
3 credits. Prerequisite, 21, 26, and Commerce 61.

#### SOCIOLOGY

PROFESSOR DEGRAFF, MR. KRUSE, MR. THOMPSON, MR. HANSON

For General College courses suggested but not required, see General College section.

Students emphasizing Sociology in their field of concentration are expected to take 24 hours in the field of Sociology. The courses in this requirement are selected with special reference to the needs of the individual student. In special cases, either more or less than the 24 hours may be required.

Students emphasizing social welfare work as their field of concentration are required to take Field Work, 111-112; Technique of Social Case Work 251-252;

Theory of Social Work 221; Government and Social Welfare 109; Sanitation 71-72; Community Organization 206; Child Welfare 117. Specific courses in economics, home economics, and biology are also recommended.

Students may do their supervised field work with the Summit County Children's Home, the Family Service Society, the Juvenile Court, the City Hospital, Y. M. C. A., or the Girl Scouts.

A course in statistics is required for all students.

The following courses count toward the 24-hour requirement. The courses all have Sociology 41 and 42 (offered in the General College) as a prerequisite. However, with permission of the head of the department, the prerequisite may be taken collaterally with these courses.

Courses 251-252, 221, 209, and 117 are planned to meet the needs of both University students and field workers in social agencies and institutions in Akron.

#### GENERAL COLLEGE

41. INTRODUCTION TO SOCIOLOGY. First semester. 3 credits.
42. SOCIAL ATTITUDES. Second semester. 3 credits.  
Prerequisite, 41.
43. MODERN SOCIAL PROBLEMS. 3 credits.
45. SOCIAL ANTHROPOLOGY. First semester. 3 credits.

#### UPPER COLLEGE

##### *Courses Offered Each Year*

- 109-110. SEMINAR AND THESIS. 2 credits each semester.  
For seniors only. Required.
- 111-112. FIELD WORK. 3 credits for 150 hours of work.  
For seniors only.
- 251-252. TECHNIQUE OF SOCIAL CASE WORK. 2 credits each semester.

##### *Courses Offered 1940-41 and Alternate Years*

114. CRIMINOLOGY. Second semester. 3 credits.
117. CHILD WELFARE. First semester. 3 credits.
205. THE SOCIOLOGY OF LEISURE TIME. First semester. 3 credits.
206. COMMUNITY ORGANIZATION. Second semester. 3 credits.
207. SOCIAL THEORY. First semester. 2 credits.
208. SOCIAL ORIGINS. Second semester. 2 credits.
209. WELFARE ASPECTS OF SOCIAL SECURITY. Second semester.  
3 credits.
221. THEORY OF SOCIAL WORK. First semester. 3 credits.

##### *Courses Offered 1941-42 and Alternate Years*

104. LEADERSHIP. Second semester. 2 credits.
113. URBAN-RURAL SOCIOLOGY. First semester. 2 credits.
204. THE FAMILY. Second semester. 3 credits.
210. POPULATION MOVEMENTS. Second semester. 3 credits.
213. THE JUVENILE DELINQUENT. First semester. 3 credits.
217. RACE RELATIONS. First semester. 3 credits.

## THE NATURAL SCIENCE DIVISION

## OBJECTIVES OF THE NATURAL SCIENCE DIVISION

1. To acquaint the student with the various fields of science as an aspect of world culture.
2. To prepare the student for further training in the graduate, professional, and technical schools.
3. To provide that still larger group who either do not desire or are unable to continue their academic training, with such knowledge, techniques, and skills as will enable them to become competent citizens.
4. To make technical service and information available to the city and its industries through the libraries and laboratories of the division.

In order to accomplish these objectives, the division offers courses designed to prepare students for the following fields:

- Graduate study in biology, chemistry, mathematics, physics.
- The study of medicine.
- The teaching of science in high school.
- Technical laboratory work in rubber chemistry.
- Technical laboratory work in applied physics.
- Position as hospital technician.
- Expert technical service.

## DEGREES

B.S. (At the discretion of the divisional chairman, students majoring in mathematics may be granted the A.B. degree if much of their work is in the humanities or social sciences.)

## BIOLOGY

PROFESSOR KRAATZ, ASSOCIATE PROFESSORS FOX AND ACQUARONE,  
ASSISTANT PROFESSOR JONES, MR. GLENNY

Biology major students must secure 36 credits in the department; for some graduate schools more is essential.

Students who expect to enter a medical school must take the Pre-Medical course.

Major students must include Zoology 61-62 and Botany 51-52, in the General College. Either can be taken in the freshman year, and the other in the sophomore year, or both in the sophomore year. If one of these is deferred until the junior year, it will be impossible to work in a sequence of advanced courses in that science in the remaining year.

The trend in the Upper College may be in three directions: (1) General Biological, which may include any combination of Upper College biology courses, but including Biology Seminar; (2) Zoological, which must include Biology Seminar, General Genetics, Human Physiology, (or General Physiology) and at least two of the following: Invertebrate Zoology, Entomology, Vertebrate Anatomy, Vertebrate Embryology, and Organic Evolution; (3) Botanical, which must include Biology Seminar, Field Botany, Plant Physiology, and General Genetics or Plant Anatomy, or at least one semester of Bacteriology.

Biological Problems is open to seniors, *and in exceptional cases to juniors*, who desire to work on some definite problem, a type of minor research.

Geology and Conservation of Natural Resources do not count in the Biology Major. They are free electives.

Required work in other departments: Chemistry 21-22 and a second year, preferably either Organic Chemistry 44 and 107 or Organic Chemistry 55 and Physiological Chemistry 56, but for other biology majors, interested more in social sciences or in meeting teaching requirements, only Chemistry 21-22; German 43-44 or French 43-44; and Psychology 41. Recommended are: Physics 51-52, Mathematics 21-22, and Sociology 41.

*General Final Examination:* All Biology Major and Pre-Medical Course students must take a general final examination covering in a comprehensive way all work taken in the department.

### PRE-MEDICAL MAJOR COURSE

#### *First Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3	English 2 .....	3
Hygiene, Physical and Mental 15 .....	3	Hygiene, Physical and Mental 16 .....	3
Int. Soc. Sci. 5 .....	3	Int. Soc. Sci. 6 .....	3
Mathematics 21 .....	4	Mathematics 22 .....	3
Inorg. Chem. 21 .....	4	Inorg. Chem. 22 .....	4
Military Training .....	1½	Military Training .....	1½

#### *Second Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
General Zoology 61 .....	4	General Zoology 62 .....	4
Qual. Analysis 43 .....	5	Org. Chem. (El.) 44 .....	4
Int. Humanities 7 .....	3	Int. Humanities 8 .....	3
German 21 .....	4	German 22 .....	4
Military Training .....	1½	Military Training .....	1½

#### *Third Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Bacteriology 107 .....	4	Bacteriology 108 .....	4
Org. Chem. (Int.) 107 .....	4	Physics 52 .....	4
Physics 51 .....	4	German 44 .....	3
German 43 .....	3	Psychology 41 .....	3

#### *Fourth Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Vert. Anatomy 155 .....	4	Vertebrate Embryology 256 .....	4
Gen. Physiology 235 .....	3	Gen. Physiology 236 .....	3
Physics (light) 53 .....	4	Human Genetics 142 .....	2
Quant. Analysis 105 .....	4	Quant. Analysis 106 .....	4

Biological courses listed in third and fourth years may have to be reversed in the schedule because Biology 155, 256, 235, 236, and 142 are given in alternate years.

## PRE-TECHNICIANS' COURSE

For entrance to the year of hospital training specified by the Registry of Medical Technologists, three years of college work are required. Under the influence of the American Medical Association the tendency will be to raise requirements to four years and a degree. It is advisable to plan a four-year course with electives and additional biology to complete a biology major. The three-year plan follows.

First Semester		<i>First Year</i>		Second Semester		Cr. Hrs.	
English 1 .....	3	English 2 .....	3	Hygiene, Physical and Mental 15 .....	3	Chemistry 22 (Inorganic) .....	4
Hygiene, Physical and Mental 15 .....	3	Chemistry 21 (Inorganic) .....	4	Elective or Zoology 62 .....	4	Military Training .....	1½
Chemistry 21 (Inorganic) .....	4	Algebra 21 or Zoology 61 .....	4				
Algebra 21 or Zoology 61 .....	4	Military Training .....	1½				
Military Training .....	1½						
First Semester		<i>Second Year</i>		Second Semester		Cr. Hrs.	
Social Science 5 (or in 1st yr.)..	3	Social Science 6 (or in 1st yr.)..	3	Humanities 8 .....	3	Zoology 62 or Electives .....	4 to 6
Humanities 7 .....	3	Humanities 8 .....	3	*Org. Chemistry 55 .....	4	*Physiological Chem. 56 .....	4
Zoology 61 or Algebra 21 .....	4	Zoology 62 or Electives .....	4 to 6	Military Training .....	1½		
*Org. Chemistry 55 .....	4						
Elective .....	3						
Military Training .....	1½						
First Semester		<i>Third Year</i>		Second Semester		Cr. Hrs.	
Physics 51 .....	4	Physics 52 .....	4	Histological Technique 154 .....	3	Bacteriology 108 .....	4
Qual. Analysis 43 .....	5	Physics 52 .....	4	Bacteriology 108 .....	4	Physiology 136 or 236 .....	3
Bacteriology 107 .....	4	Histological Technique 154 .....	3	Physiology 136 or 236 .....	3	Electives .....	3
Physiology 135 or 235 .....	3	Bacteriology 108 .....	4	Electives .....	3		
		Physiology 136 or 236 .....	3				
		Electives .....	3				

## GENERAL COLLEGE

No credit is given toward graduation for less than a full year's work in 41-42, 51-52, and 61-62.

35. NATURE STUDY. 3 credits.

A biological course stressing common animal types, local fauna, and flora, and other natural history aspects. Adapted to use of teachers of nature study. Some field trips will be made. No prerequisites.

41-42. GENERAL GEOLOGY. 4 credits each semester. 1941-42 and alternate years. Laboratory fee, \$2.50 each semester.

51-52. GENERAL BOTANY. 4 credits each semester.

Required of biology majors. Laboratory fee, \$4.00 each semester.

61-62. GENERAL ZOOLOGY. 4 credits each semester.

Required of biology major and pre-medical majors. Laboratory fee, \$4.00 each semester.

71-72. SANITATION. 3 credits each semester.

Three lectures a week.

82. CONSERVATION OF NATURAL RESOURCES. Second semester. 3 credits.

Three lectures with class discussion a week. 1940-41 and alternate years.

\* Chemistry 55-56, given in alternate years, can be taken in the third year, and Physics 51-52 in the second year. Algebra should precede Physics; in that case Zoology fits into the second year.

## UPPER COLLEGE

107-108. BACTERIOLOGY. 4 credits each semester.  
Prerequisite 51-52 or 61-62, or with the consent of the instructor without 51-52 or 61-62 in the case of advanced home economics and chemistry majors, nurses, etc. Some knowledge of chemistry is essential. Required of pre-medical majors. Laboratory fee, \$7.50 each semester; breakage fee, \$5.00 each semester.

113-114. FIELD BOTANY. 3 credits each semester.  
May follow 51-52, or with consent of instructor without 51-52. 1940-41 and alternate years. Laboratory fee, \$4.00 each semester.

215-216. PLANT PHYSIOLOGY. 4 credits each semester.  
Prerequisite, 51-52, and knowledge of general chemistry. 1941-42 and alternate years. Laboratory fee, \$6.00 each semester.

217. PLANT ANATOMY. First semester. 4 credits.  
Prerequisite, 51-52. 1940-41 and alternate years. Laboratory fee, \$4.00.

135-136. HUMAN PHYSIOLOGY. 3 credits each semester.  
This course meets the requirement for physiology in the home economics course, and is open also to biology majors. Two class periods and one laboratory period per week. 1941-42 and alternate years. Laboratory fee, \$4.00 each semester.

235-236. GENERAL PHYSIOLOGY. 3 credits each semester.  
Prerequisite, Zoology 61-62, General and Organic Chemistry. Two class periods and one 3-hour laboratory per week. Required of pre-medical students. 1940-41 and alternate years. Laboratory fee, \$4.00 each semester.

141. INVERTEBRATE ZOOLOGY. First semester. 4 credits.  
Prerequisite 61-62. Two lectures and 6 hours of laboratory work a week. A more advanced study than in 61-62, of all invertebrate phyla and classes (exclusive of insects). 1941-42 and alternate years. Laboratory fee, \$4.00.

144. GENERAL ENTOMOLOGY. Second semester. 4 credits.  
Prerequisite, 61-62. 1941-42 and alternate years. Laboratory fee, \$4.00.

146. GENERAL GENETICS. First or second semester. 3 credits.  
Prerequisite, 51-52 or 61-62. May be taken with consent of the instructor without 51-52 or 61-62, by advanced students. 1940-41 and alternate years. Fee, \$1.00.

148. HUMAN GENETICS. First or second semester. 2 credits.  
Prerequisite, 61-62. May be taken with the consent of the instructor without 61-62, by advanced sociology majors. Required of pre-medics. 1940-41 and alternate years. Fee, \$1.00.

151. ORGANIC EVOLUTION. First semester. 3 credits.  
Prerequisite, 61-62 or 51-52, preferably 61-62, as the course is primarily animal evolution. 1941-42 and alternate years.

154. HISTOLOGICAL TECHNIQUE. Second semester. 3 credits.  
Required in pre-technicians' course. One lecture and 6 hours of laboratory work a week. Prerequisite, 61-62. 1941-42 and alternate years. Laboratory fee, \$6.00.

155. VERTEBRATE ANATOMY. First semester. 4 credits.  
Required of pre-medical majors. Prerequisite, 61-62. 1940-41 and alternate years. Laboratory fee, \$10.00.

256. EMBRYOLOGY OF VERTEBRATES. Second semester. 4 credits.  
Required of pre-medical students. Prerequisite, 155. 1940-41 and alternate years. Laboratory fee, \$7.50.

265. BIOLOGY SEMINAR. First semester. 3 credits.  
Required of all biology major seniors; not required of pre-medical students.

267-268. BIOLOGICAL PROBLEMS. 1-3 credits each semester. Two continuous semesters are advisable. Open to seniors and in exceptional cases to juniors. Laboratory fee, \$2.00 per credit.

367-368. RESEARCH. 3 credits each semester.  
Open to qualified graduate students. Laboratory fee, \$2.00 per credit.

### CHEMISTRY

PROFESSOR COOK, ASSISTANT PROFESSORS CRAMER, COOL,  
HAAS, AND ANDERSON

*Fellows in Rubber Chemistry:* MR. LETOURNEAU (Firestone) AND  
MR. SCHAEFER (Goodyear)

In order that a student be properly qualified for admission to the prescribed work (listed below) in the Upper College, he must have completed in the General College the required courses in general education and in addition the following or their equivalent: Algebra and Trigonometry, 7 hours; Analytics and Calculus, 10 hours; Chemistry 21-22, 8 hours; Chemistry 43, 5 hours; Chemistry 44, 4 hours.

*Fees:* In addition to laboratory fees, a deposit of \$5.00 for breakage is required in each course.

### GENERAL COLLEGE

21-22. GENERAL INORGANIC CHEMISTRY. 4 credits each semester.  
No credit is given toward graduation for less than the full year's work. Laboratory fee, \$10.00 a semester.

23-24. INORGANIC CHEMISTRY. 3 credits each semester. Laboratory fee, \$5.00 a semester. 1940-41 and alternate years.

43. QUALITATIVE ANALYSIS. First semester. 5 credits.  
Prerequisite, 22. Laboratory fee, \$10.00.

44. ELEMENTARY ORGANIC CHEMISTRY. Second semester.  
4 credits. Prerequisite, 22. Laboratory fee, \$10.00.

Courses 23-24, 55, and 56 are for students not majoring in chemistry, and especially for students specializing in foods and nutrition.

55. ORGANIC CHEMISTRY. First semester. 4 credits.  
Prerequisite, 24. Laboratory fee, \$10.00. 1941-42 and alternate years.

56. PHYSIOLOGICAL CHEMISTRY. Second semester. 4 credits.  
Prerequisite, 55 or its equivalent. Laboratory fee, \$10.00. 1941-42 and alternate years.

## UPPER COLLEGE

<i>Third Year</i>	<i>Cr. Hrs.</i>	<i>Fourth Year</i>	<i>Cr. Hrs.</i>
Introductory Physics 51-52 .....	8	Advanced Physics 53 and elec-	
Intermediate Organic 107 .....	4	tive .....	8
Advanced Organic 108 .....	4	Physical Chemistry 213-214 .....	10
Quantitative Analysis 105-106 ..	8	Special Topics 209 .....	3
Chemical Calculations 118 .....	2	German 43-44 .....	6
German 21-22 .....	8		

105-106. QUANTITATIVE ANALYSIS. 4 credits each semester.  
Prerequisite, 43-44. Laboratory fee, \$10.00 each semester.

107. INTERMEDIATE ORGANIC CHEMISTRY. First semester. 4 credits.  
Prerequisite, 44. Laboratory fee, \$10.00.

108. ADVANCED ORGANIC CHEMISTRY. Second semester. 4 credits.  
Prerequisite, 107. Laboratory fee, \$10.00.

118. CHEMICAL CALCULATIONS. Second semester. 2 credits.  
Prerequisite, 43-44.

131-132. ENGINEERING CHEMISTRY. See College of Engineering.

133-134. METALLURGY. See College of Engineering.

137-138. METALLURGY. See College of Engineering.

209. SPECIAL TOPICS IN ORGANIC CHEMISTRY. First semester.  
3 credits. Prerequisite, 108.

213-214. PHYSICAL CHEMISTRY. 5 credits each semester.  
Prerequisite, 106, 107, 118, and Physics 51-52. Laboratory fee, \$8.00 each semester.

215-216. CHEMISTRY OF RUBBER TECHNOLOGY. 4 credits each semester.  
Prerequisites, 106, 107. Laboratory fee, \$15.00 each semester.

250. INDUSTRIAL CHEMISTRY. Second semester. 2 credits.
- 307-308. ORGANIC ANALYSIS, QUALITATIVE OR QUANTITATIVE.  
2 credits each semester.  
Prerequisite, 106 and 108. Laboratory fee, \$8.00 each semester.
- 313-314. CHEMICAL THERMODYNAMICS. 2 credits each semester.  
Prerequisite, 214 and Calculus.
- 315-316. RESEARCH. 1-3 credits each semester.  
The fee is \$5.00 per credit. Open to properly qualified students.
- 321-322. ADVANCED INORGANIC PREPARATIONS. 2 credits each semester.  
Prerequisite, 106, 107, 214. Laboratory fee, \$8.00 each semester.
324. COLLOID CHEMISTRY. Second semester. 2 credits.  
Prerequisite, 108 and 214.
326. CHEMISTRY OF LATEX TECHNOLOGY. 2 credits.

Courses 313-314, 321-322, 324 and 326 are offered only when the demand warrants.

### MATHEMATICS

PROFESSOR JONES, ASSOCIATE PROFESSORS BENDER AND SELBY,  
ASSISTANT PROFESSOR LIPSCOMBE, MR. TABLER

All students whose work of concentration lies in the Division of Natural Science, except those in the Biological Sciences, must have taken in the General College Mathematics 21, 22, 43-44, 45-46. Pre-medical students, however, must take 21, 22, and students taking the Pre-technicians' course must take 21.

Students preparing to teach Mathematics, or who expect to take some engineering courses, must take Physics.

Students majoring in mathematics must take 201, 202, 203, 204, and at least two other courses not including 213, 214.

### GENERAL COLLEGE

21. COLLEGE ALGEBRA. Either semester. 4 credits.
22. TRIGONOMETRY. Either semester. 3 credits.
33. ANALYTIC GEOMETRY. First semester. 2 credits.  
For engineering students.
- 43-44. ANALYTIC GEOMETRY. 2 credits each semester.  
Prerequisite, 21, 22.
45. DIFFERENTIAL CALCULUS. First semester. 3 credits.  
Prerequisite, 21, 22. Course 43 must be taken either before or with 45.
46. INTEGRAL CALCULUS. Second semester. 3 credits.  
Prerequisite, 45.
58. BUSINESS MATHEMATICS. Second semester. 3 credits.  
Prerequisite, 21.

## UPPER COLLEGE

104. HISTORY OF MATHEMATICS. Second semester. 3 credits.  
Prerequisite, 21-22. 1941-42 and alternate years.
105. HISTORY OF MATHEMATICS. Summer session. 2 credits.  
Prerequisite, 21-22.
121. MATHEMATICS OF INSURANCE. First semester. 3 credits.  
Prerequisite, 58. 1941-42 and alternate years.
- 125-126. ASTRONOMY. 2 credits each semester.  
Prerequisite, 21-22. 1941-42 and alternate years.
- 201-202. ADVANCED CALCULUS. 2 credits each semester.  
Prerequisite, 46. 1941-42 and alternate years.
- 203-204. DIFFERENTIAL EQUATIONS. 2 credits each semester.  
Prerequisite, 46. 1940-41 and alternate years.
205. THEORY OF EQUATIONS. First semester. 3 credits.  
Prerequisite, 46. 1941-42 and alternate years.
206. HIGHER GEOMETRY. Second semester. 3 credits.  
Prerequisite, 46. 1940-41 and alternate years.
207. HIGHER ALGEBRA. First semester. 3 credits.  
Prerequisite, 46. 1940-41 and alternate years.
- 213-214. ADVANCED ENGINEERING MATHEMATICS. 1 credit each semester.  
Prerequisite, 46. Given on cooperative basis for engineers.

## PHYSICS

PROFESSOR HOUSEHOLDER, ASSISTANT PROFESSORS FOUTS AND GRAY

Students who desire to elect physics as their field of concentration should elect at least eight hours of mathematics and eight hours of physics in the General College. In addition to this it will be necessary to have another year of each unless they have removed part of the requirement in chemistry or in German. Students who plan to continue their academic training in the graduate school should elect Physics 51, 52, 53, mathematics through the calculus and German in the General College. Students who are more interested in the applications of physics would find courses 21, 22, 43 and 44 more suited to their needs. They should also elect two years of mathematics in the General College. Such students may substitute engineering courses for the German. A total of 30 hours of physics together with Chemistry 21, 22, 43 and 44 and the Calculus, are required. No student may be admitted unconditionally into the Upper Division, who has not satisfied all of the requirements of the General College.

Students wishing to concentrate in the Applied Physics field may substitute twenty hours of engineering courses for the foreign language. This substitution must include Strength of Materials (C. E. 46); Applied Mechanics (C. E. 109-110); Elements of Electrical Engineering (E. E. 58); Engineering Drawing (M. E. 21-22); Heat and Power Engineering (M. E. 46).

## GENERAL COLLEGE

- 21-22. MECHANICS. 4 credits each semester.  
Required of all students who plan to enter the College of Engineering or major in applied physics. Students in this course must have com-

pleted the freshman mathematics courses or be taking them. Two recitation and two laboratory periods a week. Laboratory fee, \$4.00 each semester.

43-44. HEAT, MAGNETISM, ELECTRICITY AND SOUND.  
4 credits each semester.

A continuation of 21-22. Required of all students who plan to enter Engineering College or major in Applied Physics. Prerequisite, Algebra, Trigonometry, and Physics 21-22. The student *must* also be taking sophomore mathematics. Three recitations and one laboratory period a week. Laboratory fee, \$2.00 each semester.

51-52. GENERAL PHYSICS. 4 credits each semester.  
Three lectures and one laboratory period a week. Laboratory fee, \$2.00 each semester.

53. OPTICS. First semester. 4 credits.  
Three lectures, one laboratory period a week. Laboratory fee, \$2.00.

#### UPPER COLLEGE

203. ADVANCED ELECTRICITY AND MAGNETISM. 4 credits.  
Prerequisite, Physics 44 (or 52) and Calculus. Laboratory fee, \$2.00.

204. INTRODUCTION TO ATOMIC PHYSICS. 3 credits.  
Prerequisites, Physics 203 or 53 and Calculus. Three lectures per week.

209-210. ADVANCED PHYSICAL MEASUREMENTS. 2 credits each semester.

Senior laboratory problems. Laboratory fee, \$4.00 each semester.

221-222. COLLOQUIUM. 1 credit each semester.

302. THEORETICAL MECHANICS. First semester. 3 credits.  
Prerequisite, Physics 52 or 44 and Calculus.

306. PHYSICAL OPTICS. Second semester. 4 credits.  
Prerequisite, Physics 203, and Calculus. Laboratory fee, \$2.00.

307. ELECTROMAGNETIC THEORY. 3 credits.  
Prerequisite, Physics 204 and Calculus.

308. NUCLEAR PHYSICS. 3 credits.  
Prerequisite, Physics 307 and Calculus.

309-310. ADVANCED PHYSICAL MEASUREMENTS. 2 credits each semester.

Advanced laboratory problems. Laboratory fee, \$4.00 each semester.

311-312. THERMODYNAMICS. 3 credits each semester.

314. X-RAYS. 4 credits.  
Prerequisites, Physics 53 and 203, and Calculus. Three lectures and one laboratory period a week. Laboratory fee, \$2.00.

(Courses on the 300 level are offered in alternate years.)

## THE COLLEGE OF ENGINEERING

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."

### THE CO-OPERATIVE PLAN

The essential features of co-operative education in any field are:

First, the underlying science is acquired in an educational institution under trained teachers.

Second, practical experience is acquired by working under commercial, competitive conditions.

Third, the acquisition of theory and practice proceeds concurrently. This means that the student must do his outside work while he is in college and not before he comes or after he leaves.

It follows from the foregoing that there are many types of truly co-operative plans in operation. They vary in the relative amounts of college and outside work, time of commencing practice, kinds of experience required and accepted, length of alternating periods, and many other details, and yet all include the three essential features.

Moreover, strict adherence to the fundamentals still leaves room for flexibility with which to meet changing industrial conditions. For example, the prevalence of the 24 to 36 hour week in Akron together with the four-shift plan made it both possible and desirable for students to work and attend college at the same time. Of course, their classroom load was adjusted correspondingly.

Employment conditions are now such that the alternating plan is preferable. Therefore, third and fourth year and first-semester fifth year engineering students now alternate between work and school by half-semester periods.

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.

### ENGINEERING OPPORTUNITIES

The erroneous impression prevails in many quarters that an engineering graduate must practice his profession. The number of such graduates successfully pursuing other occupations indicates that engineering training adds to earning power in almost any field of endeavor.

Also, the profession itself offers a diversity of opportunities for those of widely variant inclinations. The sales engineer must be able to recommend the particular type and size of equipment which his customers' needs require. The production engineer must be able to understand and handle personnel and management problems. Design, development, research, and appraisal are some of the other subdivisions which are found in nearly every branch of engineering.

In order to conduct a co-operative course, the college must be located in or near an industrial center, and, while there are over a thousand 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 engineering education was selected as being 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 endeavor so to 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. This work is required and begins with the student's admission to the Upper College. The alternation is by half semester periods until the last semester of the senior year, the whole of which is spent in college.

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. 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 in 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, not to enable him to earn money. The student's earnings are not sufficient to pay his expenses and he 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 directly from their employer.

## DEGREES

The degrees of Bachelor of Civil Engineering, Bachelor of Mechanical Engineering, and Bachelor of Electrical Engineering, 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 SCIENCE AND TACTICS

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 are required to take the two-year basic course.

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

## PROMOTION

Students are promoted to Upper College work in the College of Engineering after satisfactory completion of two years of work in the General College as indicated in the program outlined on the next page. A minimum of 64 semester hours and 128 quality points is required for promotion.

## ESTIMATED EXPENSE OF FIRST YEAR

*First Semester*

	Resident	Non-Resident
Tuition .....	Free	\$ 90.00
Fees .....	\$ 62.50	62.50
Books and Drawing Instruments .....	40.00	40.00
<b>Total</b> .....	<b>\$102.50</b>	<b>\$192.50</b>

*Second Semester*

	Resident	Non-Resident
Tuition .....	Free	\$ 90.00
Fees .....	\$ 48.50	48.50
Books .....	8.00	8.00
<b>Total</b> .....	<b>\$ 56.50</b>	<b>\$146.50</b>

OUTLINE OF REQUIRED COURSES

THE GENERAL COLLEGE

*First Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Science and Tactics ....	1½	Military Science and Tactics ....	1½
Hygiene and Physical Education		Hygiene and Physical Education	
15 .....	3	16 .....	3
Physics 21 (Mechanics) .....	4	Physics 22 (Mechanics) .....	4
Math. 21 (Algebra) .....	4	Math. 22 (Trigonometry) .....	3
English 1 .....	3	English 2 .....	3
Engineering Drawing 21 .....	2	Engineering Drawing 22 .....	2
Surveying 21 .....	1	Surveying 22 .....	1
		Personnel Problems 21 .....	1
		Survey of Engineering 24 .....	1
	18½		19½

*Second Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Military Science and Tactics..	1½	Military Science and Tactics..	1½
Physics 43 (Heat and Elec- tricity) .....	4	Physics 44 (Electricity, Light, and Sound) .....	4
Math. 33 (Analytic Geometry)	2	Math. 46 (Integral Calculus)..	3
Math. 45 (Differential Calculus)	3	Strength of Materials CE 46..	3
*Machine Drawing ME 23 or	} 2	*Machine Drawing ME 23 or	} 2
*Shop Practice ME 49		*Shop Practice ME 49	
**Engineering Geology CE 44	} 3	**Surveying C. E. 43	} 3
Descriptive Geometry ME 44..		Heat Power Engineering ME	
Elective .....	3	46 .....	3
	18½	Elements of Electrical En- gineering EE 58 .....	3
			19½

The first two years the student is enrolled in the General College, and attends classes full time. During the third and fourth years, and the first semester of the fifth year, he attends classes one-half of each semester and works in industry the other half. The last semester of the senior year, he attends classes full time.

All of the above credit hours are on the full-time basis.

\* For Mechanical and Electrical Engineering students.  
 \*\* For Civil Engineering students.

## CIVIL ENGINEERING

PROFESSORS DURST, \*GILMOUR, BULGER

## OUTLINE OF COURSES

*Pre-Junior Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Engineering Chemistry 131 .....	2½	Engineering Chemistry 132 .....	2½
Engineering Mathematics 213....	1	Engineering Mathematics 214 ....	1
Applied Mechanics CE 109 .....	1½	Applied Mechanics CE 110 .....	1½
Strength of Materials CE 117 ....	1½	Strength of Materials CE 118 ....	1½
Elements of Electrical Engineer- ing EE 123 .....	3	Surveying CE 101 .....	3
	<u>9½</u>		<u>9½</u>

*Junior Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 61 (Report Writing) ....	1	English 62 (Report Writing) ....	1
Roofs and Bridges CE 103 .....	2½	Roofs and Bridges CE 104 .....	2½
Route Surveying CE 108 .....	3	Highways CE 107 .....	3
Concrete Laboratory CE 112 ....	1	Structural Design CE 114 .....	3
Hydraulics ME 184 .....	2½		
	<u>10</u>		<u>9½</u>

*Senior Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Water Supply CE 115 .....	3	Sewerage CE 116 .....	3
Structural Design CE 121 .....	3½	Structural Design CE 124 .....	5
Statically Indeterminate Struc- tures CE 123 .....	3	Thesis CE 126 .....	2
	<u>9½</u>	Elective in Industrial Engineer- ing .....	3
		Economics .....	3
		Elective .....	2

18

All credit hours are based on a complete semester period.

The Pre-Junior, Junior, and Senior years are on the co-operative basis with the exception of the second semester of the Senior year when the students are in school full time.

The above courses are required for the degree of Bachelor of Civil Engineering. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a minimum of 142 credit hours.

## GENERAL COLLEGE

21-22. SURVEYING. 1 credit each semester.  
Laboratory fee, \$2.00 each semester.

24. SURVEY OF ENGINEERING. Second semester. 1 credit.  
Lectures, readings, and motion pictures covering scope of the work in various branches of engineering.

\*Professor of Coordination.

- 43. SURVEYING. Second semester. 2 credits. Laboratory fee, \$2.00.
- 44. ENGINEERING GEOLOGY. First semester. 2 credits.
- 46. STRENGTH OF MATERIALS. Second semester. 3 credits.

## UPPER COLLEGE

- 101. SURVEYING. Second semester. 3 credits. Prerequisite, 21-22. Laboratory fee, \$2.00.
- 102. STRUCTURAL DRAWING. Second semester. 2 credits.
- 103-104. ROOFS AND BRIDGES. 2½ credits each semester. Prerequisite, 109.
- 107. HIGHWAYS. Second semester. 3 credits.
- 108. ROUTE SURVEYING. First semester. 3 credits. Prerequisite, 101. Laboratory fee, \$2.00.
- 109-110. APPLIED MECHANICS. 1½ credits each semester. Prerequisite, Math. 56, and Physics 44.
- 112. CONCRETE LABORATORY. First semester. 1 credit. Laboratory fee, \$1.00.
- 114. STRUCTURAL DESIGN. Second semester. 3 credits. Simple steel structures. Prerequisite, 118.
- 115. WATER SUPPLY. First semester. 3 credits. Prerequisite, Hydraulics.
- 116. SEWERAGE. Second semester. 3 credits. Prerequisite, Hydraulics.
- 117-118. STRENGTH OF MATERIALS. 1½ credits each semester. Prerequisites, Calculus, Physics, and 46. Laboratory fee, \$1.00 each semester.
- 121. STRUCTURAL DESIGN. First semester. 3½ credits. Students may continue steel and wood structures or begin the study of concrete structures.
- 123. STATICALLY INDETERMINATE STRUCTURES. First semester. 3 credits. Redundant structures.
- 124. STRUCTURAL DESIGN. Second semester. 5 credits. Reinforced concrete structures.
- 126. THESIS. Second semester. 2 credits. An approved design or research project.

ELECTRICAL ENGINEERING  
PROFESSOR WALTHER, ASSISTANT PROFESSOR SMITH  
MR. SIBILA

OUTLINE OF COURSES

<i>Pre-Junior Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Engineering Chemistry 131 .....	2½	Engineering Chemistry 132 .....	2½
Engineering Mathematics 213.....	1	Engineering Mathematics 214.....	1
Applied Mechanics CE 109 .....	1½	Applied Mechanics CE 110 .....	1½
Strength of Materials CE 117.....	1½	Strength of Materials CE 118.....	1½
Elements of Electrical Engineer- ing EE 123 .....	3	Elements of Electrical Engineer- ing EE 124 .....	3
<hr/>		<hr/>	
$9\frac{1}{2}$		$9\frac{1}{2}$	
<i>Junior Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 61 (Report Writing).....	1	English 62 (Report Writing).....	1
Industrial Engineering IE 147.....	1½	Industrial Engineering IE 148.....	1½
Hydraulics ME 184 .....	2½	Machine Design ME 178 .....	2½
Electricity and Magnetism EE 145 .....	2	Electricity and Magnetism EE 146 .....	2
A. C. Circuits EE 147 .....	3	Electrical Measurements EE 136	2½
<hr/>		<hr/>	
10		$9\frac{1}{2}$	
<i>Senior Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Engineering Electronics EE 149	2½	Radio Communication and Elec- tron Tube Applications EE 150	3
Alternating Current Machinery EE 139 .....	2	A. C. Machinery and Power Transmission EE 140 .....	4
Alternating Current Laboratory EE 141 .....	2½	Senior Electrical Engineering Problems EE 142 .....	5
Thermodynamics ME 189 .....	2½	Economics .....	3
<hr/>		<hr/>	
$9\frac{1}{2}$		3	
<i>Senior Year</i> (Industrial Engineering Option)			18
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Time Study IE 157 .....	1	Motion Study IE 158 .....	1
Industrial Production Problems IE 155 .....	1½	Industrial Management Prob- lems IE 156 or	3
Alternating Current Machinery EE 139 .....	2	Personnel Administration IE 154	
Alternating Current Laboratory EE 141 .....	2½	Engineering Accounting .....	3
Engineering Electronics EE 149	2½	Economics .....	3
<hr/>		<hr/>	
$9\frac{1}{2}$		4	
A. C. Machinery and Power Transmission EE 140 .....			4
Senior Electrical Engineering Problems EE 142 .....			5
<hr/>			<hr/>
			19

All credit hours are based on a complete semester period.

The Pre-Junior, Junior and Senior years are on the co-operative basis with the exception of the second semester of the Senior year when the students are in school full time.

The above courses are required for the degree of Bachelor of Electrical Engineering. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a minimum of 142 credit hours.

## GENERAL COLLEGE

21-22. INDUSTRIAL ELECTRICITY. 4 credits each semester. Includes one 2-hour laboratory period. Prerequisite, High School Algebra. Laboratory fee, \$2.00 each semester.

43-44. ADVANCED INDUSTRIAL ELECTRICITY. 2 credits each semester. Includes one 2-hour laboratory period. Prerequisite, 22. Laboratory fee, \$2.00 each semester. Not offered 1940-41.

55-56. INDUSTRIAL ELECTRONICS. 2 credits each semester. Includes one 2-hour laboratory period. Prerequisite, 22. Laboratory fee, \$2.00 each semester.

58. ELEMENTS OF ELECTRICAL ENGINEERING. Second semester. 3 credits.

Two recitations and one three-hour laboratory or computing period. Prerequisite, Physics 43. Laboratory fee, \$3.00.

## UPPER COLLEGE

123-124. ELEMENTS OF ELECTRICAL ENGINEERING. 3 credits each semester.

Four recitations, one 4-hour laboratory period. Prerequisite, 58. Laboratory fee, \$3.00 each semester.

136. ELECTRICAL MEASUREMENTS. Second semester.  $2\frac{1}{2}$  credits. One recitation and two 4-hour laboratory periods. Prerequisite, 124. Laboratory fee, \$3.00.

139. ALTERNATING CURRENT MACHINERY. First semester. 2 credits. Prerequisite, 147. Concurrent with 141.

140. ALTERNATING CURRENT MACHINERY AND POWER TRANSMISSION. Second semester. 4 credits. Prerequisite, 139. Concurrent with 142.

141. ALTERNATING CURRENT LABORATORY. First semester.  $2\frac{1}{2}$  credits. Concurrent with 139. Laboratory fee, \$4.00.

142. SENIOR ELECTRICAL ENGINEERING PROBLEMS. Second semester. 5 credits. Concurrent with 140. Laboratory fee, \$4.00.

145-146. ELECTRICITY AND MAGNETISM. 2 credits each semester. Prerequisite, 123.

147. ALTERNATING CURRENT CIRCUITS. First semester. 3 credits. Three recitations and two 3-hour laboratory periods. Laboratory fee, \$3.00. Prerequisite, 124.

149. ENGINEERING ELECTRONICS. First semester.  $2\frac{1}{2}$  credits. Three recitations. One 4-hour laboratory period. Prerequisite, 124. Laboratory fee, \$3.00.

150. RADIO COMMUNICATION AND ELECTRON TUBE APPLICATIONS.  
Second semester. 3 credits. Laboratory fee, \$3.00.  
One recitation and one 4-hour laboratory period. Prerequisite, 149.

## INDUSTRIAL ENGINEERING

PROFESSOR ADENDORFF

GENERAL COLLEGE

21. PERSONNEL PROBLEMS. Second semester. 1 credit.

UPPER COLLEGE

- 147-148. INDUSTRIAL ENGINEERING.  $1\frac{1}{2}$  credits each semester.  
149-150. RUBBER PRODUCTION METHODS.  $1\frac{1}{2}$  credits each semester.  
151. METAL PROCESSES. First semester. 3 credits.  
Pattern Shop, Foundry, and Machine Shop.  
153. HUMAN ENGINEERING. First semester. 3 credits.  
154. PERSONNEL ADMINISTRATION. Second semester. 3 credits.  
155. INDUSTRIAL PRODUCTION PROBLEMS. First semester.  
 $1\frac{1}{2}$  credits.  
156. INDUSTRIAL MANAGEMENT PROBLEMS. Second semester.  
3 credits.  
157. TIME STUDY. First semester. 1 credit.  
158. MOTION STUDY. Second semester. 1 credit.  
One recitation alternating with laboratory period.  
160. SEMINAR. Second semester. 2 credits.

## MECHANICAL ENGINEERING

PROFESSOR GRIFFIN, ASSOCIATE PROFESSOR UPP,

ASSISTANT PROFESSOR WILSON, MR. STOTLER, MR. MACLACHLAN

## OUTLINE OF COURSES

*Pre-Junior Year*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Engineering Chemistry 131 .....	2½	Engineering Chemistry 132 .....	2½
Engineering Mathematics 213....	1	Engineering Mathematics 214....	1
Applied Mechanics CE 109 .....	1½	Applied Mechanics CE 110 .....	1½
Strength of Materials CE 117....	1½	Strength of Materials CE 118 ....	1½
Elements of Electrical Engineer- ing EE 123 .....	3	Elements of Electrical Engineer- ing EE 124 .....	3
	9½		9½

<i>Junior Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 61 (Report Writing).....	1	English 62 (Report Writing)....	1
Industrial Engineering IE 147....	1½	Industrial Engineering IE 148..	1½
Hydraulics ME 184 .....	2½	*Machine Design ME 178 .....	2½
*Mechanism ME 172 .....	2½	Mechanism Drawing ME 174....	1
Thermodynamics ME 189 .....	2½	Mechanical Engineering Labora-	
		tory ME 182 .....	2
	10	Chemistry 136 (Fuels and Com-	
		bustion) .....	1½
			9½

<i>Senior Year</i>			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Steam Power Plants ME 185....	2	Machine Design ME 179 .....	4
Gas and Oil Engines ME 190		Special Mechanical Engineering	
or	2½	Problems ME 194 .....	3
Refrigeration ME 192		Steam Power Plants ME 186 ....	3
Heating and Air Conditioning		Inspection Trips ME 196 .....	1
ME 187 .....	3	Metallurgy 133 .....	3
Mechanical Engineering Labora-		Economics .....	3
tory ME 183 .....	2½	Elective .....	2
	10		19

<i>Senior Year</i> (Industrial Engineering Option)			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Time Study IE 157 .....	1	Motion Study IE 158 .....	1
Industrial Production Problems		Industrial Management Prob-	
IE 155 .....	1½	lems IE 156 .....	3
Mechanical Engineering Labora-		Personnel Administration	
tory ME 183 .....	2½	IE 154 .....	3
Steam Power Plants ME 185 ....	2	Engineering Accounting .....	3
Heating and Air Conditioning		Economics .....	3
ME 187 .....	3	Machine Design ME 179 .....	4
	10	Inspection Trips ME 196 .....	1
			18

<i>Senior Year</i> (Aeronautical Engineering Option)			
First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
General Aeronautics 163 .....	2½	Airplane Design 164 .....	3
Gas & Oil Engines 190 .....	2½	Aeronautical Problems 168 .....	3
Aerodynamics 165 .....	3	Machine Design 179 .....	4
Aerodynamics Lab. 167 .....	2	Inspection Trips 196 .....	1
	10	Metallurgy 133 .....	3
		Economics .....	3
		Elective .....	2
			19

All credit hours are based on a complete semester period.

The Pre-Junior, Junior and Senior years are on the co-operative basis, with the exception of the second semester of the Senior year when the students are in school full time.

The above courses are required for the degree of Bachelor of Mechanical Engineering. In no case, however, will a degree be awarded until the student has passed, with necessary quality points, a minimum of 142 credit hours.

\* In the academic year 1940-41, Machine Design 178 will be given the first semester and Mechanism 172 the second semester.

## GENERAL COLLEGE

- 21-22. ENGINEERING DRAWING. 2 credits each semester.
23. MACHINE DRAWING. Either semester. 2 credits.  
Prerequisite, 22.
44. DESCRIPTIVE GEOMETRY. First semester. 3 credits.  
Prerequisite, 22.
46. HEAT POWER ENGINEERING. Second semester. 3 credits.  
Prerequisite, Physics 43.
49. SHOP PRACTICE. Either semester. 2 credits.  
Laboratory fee, \$3.00.

## UPPER COLLEGE

172. MECHANISM. First semester.  $2\frac{1}{2}$  credits.
174. MECHANISM DRAWING. Second semester. 1 credit.  
Prerequisite, 172.
178. MACHINE DESIGN. Second semester.  $2\frac{1}{2}$  credits.  
Prerequisite, C. E. 118.
179. MACHINE DESIGN. Second semester. 4 credits.  
Prerequisite, 178.
180. MACHINE DESIGN. 2 credits.
182. MECHANICAL ENGINEERING LABORATORY. Second semester.  
2 credits. Laboratory fee, \$2.00.
183. MECHANICAL ENGINEERING LABORATORY. First semester.  
 $2\frac{1}{2}$  credits. Laboratory fee, \$2.00.
184. HYDRAULICS. First semester.  $2\frac{1}{2}$  credits.  
Prerequisite, Math. 56.
- 185-186. STEAM POWER PLANTS. 2 credits first semester. 3 credits  
second semester. Prerequisite, 46.
187. HEATING AND AIR CONDITIONING. First semester. 3 credits.  
Prerequisite, Physics 43.
189. THERMODYNAMICS. First semester.  $2\frac{1}{2}$  credits.  
Prerequisite, Math. 56.
190. GAS AND OIL ENGINES. First semester.  $2\frac{1}{2}$  credits.  
Prerequisite, 189.
192. REFRIGERATION. First semester.  $2\frac{1}{2}$  credits.  
Prerequisite, 189.
194. SPECIAL MECHANICAL ENGINEERING PROBLEMS. Second  
semester. 3 credits. Laboratory fee, \$3.00.
196. INSPECTION TRIPS. Second semester. 1 credit.

197. HEATING AND VENTILATING. First semester. 2 credits.  
Evening session.

198. AIR CONDITIONING. Second semester. 2 credits.  
Evening session.

#### AERONAUTICS

163. GENERAL AERONAUTICS. First semester. 2½ credits.

164. AIRPLANE DESIGN. Second semester. 3 credits.

165. AERODYNAMICS. First semester. 3 credits.

167. AERODYNAMICS LABORATORY. First semester. 2 credits.

168. AERONAUTICAL PROBLEMS. Second semester. 3 credits.

#### OTHER COURSES FOR ENGINEERING STUDENTS

##### CHEMISTRY

ASSISTANT PROFESSOR ANDERSON

131. ENGINEERING CHEMISTRY. First semester. 2½ credits.  
Laboratory fee, \$5.00.

132. ENGINEERING CHEMISTRY. Second semester. 2½ credits.  
Laboratory fee, \$5.00.

133. METALLURGY OF IRON AND STEEL. Second semester.  
3 credits. Laboratory fee, \$7.50.

134. METALLURGY (ADVANCED). Second semester. 3 credits.  
Laboratory fee, \$7.50.

136. CHEMISTRY (FUELS AND COMBUSTION). Second semester.  
1½ credits.

137-138. METALLURGY. 2 credits each semester.  
Laboratory fee, \$3.00 each semester.

##### ENGLISH

ASSISTANT PROFESSOR RAW

61-62. ENGLISH (REPORT WRITING). 1 credit each semester.  
Co-operative basis.

## THE COLLEGE OF EDUCATION

HOWARD R. EVANS, PH.D., *Dean*

### GENERAL INFORMATION

The College of Education, formerly known as 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. Along with the reorganization plan which was placed into effect in September, 1935, the name was changed to the College of Education.

The University of Akron is so organized that students in any college may take courses in other colleges. This enables the College of Education to use the facilities of the whole University in the preparation of teachers. The Akron Public Schools cooperate with the University in a number of ways, chief of which is joint participation in the administration of Spicer Demonstration-Laboratory School. Students in the University are inducted into actual school experience, for the most part, in classes in the public schools of the City of Akron. Occasionally, however, Barberton, Summit County, and other neighboring school systems are used. The College of Education has for its first major purpose the professional preparation of teachers. Attention will be given, however, to the development of characteristics and qualities which are equally important, such as a broad and liberal education, strong and pleasing personality, and desirable character.

Particular emphasis is placed upon the preparation of teachers for the city of Akron. However, graduation does not insure appointment to a teaching position in the city. Selection is made on the basis of scholarship, professional training, personality, and character.

In the preparation of teachers there is a related function, that of the improvement of teachers in service. In order to satisfy this need, evening, Saturday, and summer session courses are offered. These courses are designed to strengthen the academic preparation, to improve professional mastery, and to inspire and lead teachers to a clearer conception of their responsibilities and privileges.

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 research on these problems by the College of Education will bring suggestions for new forms of training and for various modifications of school work.

### COURSES OF STUDY AND DEGREES

The College of Education offers curricula in the following fields: high school teaching, all regular academic subjects, and special fields such as physical education, music, art, secretarial science, commerce, speech, home economics; kindergarten-primary and nursery school and all grades of the elementary school.

Each student is required to pass a qualifying examination before entering upon Student Teaching, or before graduation if his Student Teaching requirement has already been met.

The Department of Psychology, although placed in the College of Education for administrative purposes, is open to the students in the Liberal Arts College or the College of Education who wish to make Psychology their field of concentration. The College of Liberal Arts also offers a combined major in Philosophy and Psychology.

The State of Ohio permits teaching in the elementary schools following a three-year diploma program. Such a course is offered for those who feel that they cannot give more than three years at the beginning to preparation. Most students plan to take four years or more. Four years are required for high school teaching, and five years are desirable. The first two years of the student's preparation are given over to general education in the General College. During the second year, however, if the student anticipates entering the College of Education he should plan to take certain prerequisite courses.

Any student in the University who is not enrolled in the College of Education and who wishes to enter the teaching profession should register with the Dean of the College of Education at least two years prior to the time at which he expects to be eligible to teach.

Students who complete a prescribed four-year curriculum of 128 semester hours and have the required quality of work are entitled to receive the B.A. in Education or the B.S. in Education degree.

Graduate courses are open to any student who holds a Bachelor's degree from an accredited institution and who has the necessary background and ability for advanced study. The Master's degree is granted upon the completion of 30 semester hours of study.

### REQUIREMENTS FOR ADMISSION

1. Each student must have secured a quality point ratio of two in all work carried.
2. Each student is required to pass an examination on the introductory courses in the General College.
3. Each student must pass an examination in written English.
4. Each student is required to meet a satisfactory standard with respect to personality. This rating is made by instructors conducting the courses in Education in the General College, by the office of the Dean of Students, or by means of a standardized rating, or by a combination of them.

5. Each student planning to major in a special field must take an examination planned by the special department.

6. Each prospective high school teacher must be prepared for certification in three subjects, one major and two minors. The teaching majors and minors are defined on the next page.

7. Each prospective high school teacher must be prepared to enter upper college courses in at least two teaching fields.

**THREE-YEAR ELEMENTARY COURSE**

	Cr. Hrs.
English 1-2 .....	6
Introduction to Social Science 5-6 .....	6
Introduction to Humanities 7-8 .....	6
Introduction to Natural Science 9-10 .....	6
Hygiene, Physical and Mental 15-16 .....	6
Introduction to Education 55 .....	3
Literature .....	6
Art .....	4
Music .....	4
Story Telling 83 .....	3
Children's Literature 86 .....	3
General and Educational Psychology .....	6
Geography .....	3
Fundamentals of Speech 76 .....	3
Child Psychology 105 .....	3
The Teaching of Reading 135 .....	3
The Teaching of Arithmetic 136 .....	2
The Teaching of Language Arts 137 .....	2
The Teaching of Social Studies and Science 138 .....	2
Science for Elementary Grades 133 .....	3
Principles of Education 201 .....	3
School Administration 115 .....	2
Student Teaching 124 .....	4
Electives .....	7

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**BASIC REQUIREMENTS FOR ALL DEGREES**

1. General education and prerequisite pre-professional requirements:	Cr. Hrs.
English 1-2 .....	6
Introduction to Social Science 5-6 .....	6
Introduction to Humanities 7-8 .....	6
Introduction to Natural Science 9-10 .....	6
Hygiene, Physical and Mental 15-16 .....	6
General Psychology 41 .....	3
Educational Psychology 52 .....	3
Introduction to Education 55 .....	3
Fundamentals of Speech 76 .....	3
Literature .....	6
Mathematics, Foreign Language, Accounting or *Elective .....	6-8
Military Science and Tactics (Men) .....	6
2. Professional Courses:	
Tests and Measurements 105 .....	2
School Management 115 .....	2
Student Teaching 124 .....	6
Methods .....	Varies with the teaching field.
3. Major field plus one or two minors, depending upon field.	

\*For Elementary Curriculum.

## REQUIREMENTS FOR THE A.B. IN EDUCATION

The A.B. degree in Education is granted to those whose major field is in one of the regular academic fields such as English, History, Mathematics, Science, etc. (Majors in special fields, including elementary, receive the B.S. degree in Education.)

## STATEMENT OF NUMBER OF HOURS REQUIRED IN VARIOUS FIELDS FOR THE COMPLETION OF MAJORS AND MINORS

Field	H. S. Units as Pre-requisites	Major	Minor	Special
Art .....	.....	.....	24	60
Biological Science .....	1	24	15	.....
Business Education .....	.....	.....	.....	45
Bookkeeping—Social Business .....	.....	40	20	.....
Salesmanship—Merchandising .....	.....	40	20	.....
Stenography—Typing .....	.....	40	20	.....
Typing .....	.....	.....	5	.....
Earth Science .....	1	.....	15	.....
English .....	3	*30	15	.....
French .....	2	24	15	.....
General Science .....	.....	*40—compre- hensive major	15	.....
German .....	2	24	15	.....
History .....	2	24	15	.....
Home Economics .....	.....	.....	20	35
Latin .....	2	18	15	.....
Mathematics .....	2	20	15	.....
Music—Instrumental .....	.....	.....	24	53
Vocal .....	.....	.....	24	53
Physical Education .....	.....	.....	16	40
Physical Science .....	1	24	15	.....
Social Science .....	1	24	15	.....
*Social Studies (comprehensive major) .....	.....	40	.....	.....
Spanish .....	2	24	15	.....
Speech .....	.....	24	15	40

For selection of required courses to constitute a teaching field, consult the dean of education or appropriate adviser.

Each student expecting to receive the Bachelor of Arts in Education degree is required to have one major and two minors according to the definitions above, in addition to the requirements for promotion to the upper college as listed on page 43 and the following courses in education:

**Methods .....	3 hours
†Tests and Measurements, 105 .....	2
Principles of Education, 201 .....	3

\* General courses are *not* included in the total hours listed above.

\*\* Varies with the major and minors. In some cases the methods requirement is included as a part of the major.

† People who have taken Educational Psychology beginning the fall semester of 1939-40 are exempt.

Student Teaching, 124 .....	3
School Management, 115 .....	2
Fundamentals of Speech, 76 .....	3

Each student is required to pass a qualifying examination before entering upon student teaching, or before graduation if his student teaching requirement has already been met.

Each student is required to complete 128 semester hours of work with a minimum of a 2 point average. In the major field this must be 2.5 at the time of entering upon student teaching and 2 in the minors.

### SEQUENCE OF PRE-PROFESSIONAL AND PROFESSIONAL COURSES

#### *Second Year General College*

	First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
General Psychology .....	3		Educational Psychology .....	3
Introduction to Education (first or second semester) .....			3	

#### *First Year Upper College*

	First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Methods .....	3		†Tests and Measurements 105 .....	2

#### *Second Year Upper College*

	First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Principles of Education 201 .....	3		Student Teaching .....	6
			School Management .....	2

	First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
Student Teaching .....	6		Principles of Education 201 .....	3
School Management .....	2			

### PRIMARY-ELEMENTARY COURSE

The following curriculum for the preparation of primary-elementary school teachers leads to the B.S. degree in Education. It is designed for teachers preparing to teach in grades one to three inclusive.

Elective work should be chosen in consultation with the adviser, so that there will be some concentration comparable to at least one minor.

#### *First Year, General College*

	First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3		English 2 .....	3
Introduction to Social Science 5 .....	3		Introduction to Social Science 6 .....	3
Hygiene, Physical and Mental 15 .....	3		Hygiene, Physical and Mental 16 .....	3
Military Training (Men) .....	1½		Military Training (Men) .....	1½

† People who have taken Edu. Psychology beginning the fall semester of 1939-40 are exempt.

*Second Year, General College*

Introduction to Humanities 7 ....	3	Introduction to Humanities 8 ....	3
Introduction to Natural Science		Introduction to Natural Science	
9 .....	3	10 .....	3
Structural Art 21 .....	2	Design 22 .....	2
General Psychology 41 .....	3	Educational Psychology 52 .....	3
Introduction to Music 81 .....	2	Introduction to Education 55 .....	3
Literature .....	3	Literature .....	3
Military Training (Men) .....	1½	Military Training (Men) .....	1½

*Third Year, College of Education*

Principles of Geography 71 .....	3	Fundamentals of Speech 76 .....	3
Story Telling 83 .....	3	Story Telling 84 .....	3
Kindergarten-Primary Music		Kindergarten-Primary Music	
115 .....	2	116 .....	2
Primary Methods 131 .....	3	Children's Literature 86 .....	3
Hygiene and Health Activities		Art for the Grades 121 .....	2
for Elementary Grades 131.....	2	Primary Methods 132 .....	3
Games for Elem. Grades 132 ....	1		
Teaching of Reading 135 .....	3		

*Fourth Year, College of Education*

Play Materials 126 or		School Management 115 .....	2
Handicrafts 41 .....	2	Student Teaching 124 .....	6
Child Psychology 105 .....	3	Economics, History, Political	
Science for Elementary Grades		Science or Sociology .....	6
133 .....	3	Tests and Measurements 105 ....	2
Principles of Education 201 .....	3		
Geography .....	3		

## KINDERGARTEN-PRIMARY COURSE

The curriculum for the preparation of kindergarten-primary teachers is quite similar to the curriculum for primary-elementary teachers. The following courses are peculiar to this curriculum: Child Development, 125, 3 credits; Play Materials, 126, 2 credits; Kindergarten-Primary Methods, 127-8, 6 credits.

This curriculum leads to the B.S. degree in Education and is designed primarily for the preparation of teachers in kindergarten and grades one and two.

For a major in this course of study, the student must pass a music test before entering upper college.

## FOUR-YEAR ELEMENTARY COURSE

The following outline for the preparation of elementary school teachers leads to the B.S. degree in Education.

Elective work should be chosen in consultation with the adviser, so that there will be some concentration comparable to at least one minor.

## FOUR-YEAR ELEMENTARY COURSE

The following outline is furnished for the guidance of students preparing for elementary school teaching.

*First Year, General College*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3	English 2 .....	3
Intro. to Social Science 5 .....	3	Intro. to Social Science .....	3
Hygiene, Physical and Mental 15 .....	3	Hygiene, Physical and Mental 16 .....	3
Military Training (Men) .....	1½	Military Training (Men) .....	1½

*Second Year, General College*

Intro. to Humanities 7 .....	3	Intro. to Humanities 8 .....	3
Intro. to Natural Science 9 .....	3	Intro. to Natural Science 10 .....	3
Structural Art 21 .....	2	Design 22 .....	2
General Psychology 41 .....	3	Educational Psychology 52 .....	3
Intro. to Education 55 .....	3	Story Telling 83 .....	3
Literature .....	3	Literature .....	3
Military Training (Men) .....	1½	Military Training (Men) .....	1½

*Third Year, College of Education*

Principles of Geography 71 .....	3	Music Literature and Apprec. 82 .....	2
Introduction to Music 81 .....	2	Art for the Grades 121 .....	2
Children's Literature 86 .....	3	Teaching of Social Studies and Science 138 .....	2
Teaching of Language Arts 137 .....	2	Fundamentals of Speech 76 .....	3
Child Psychology 105 .....	3	Geography .....	3
Hygiene and Health Activities for Elementary Grades 131 .....	2	Teaching of Reading 135 .....	3
Games for Elem. Grades 132 .....	1	Teaching of Arithmetic 136 .....	2

*Fourth Year, College of Education*

Music Education 117 .....	1	Music Education 118 .....	1
Science for Elementary Grades 133 .....	3	School Management 115 .....	2
Economics, History, Political Science, or Sociology .....	3	Student Teaching 124 .....	6
Handicrafts 41 .....	2	Economics, History, Political Science, or Sociology .....	3
Principles of Education 201 .....	3	Tests and Measurements 105 .....	2

## ART COURSE

To obtain the B.S. in Education degree with a major in art, one must fulfill the basic requirements listed on page 107 plus the art major, plus one minor.

Drawing .....	15 hours
Structural Art 21 .....	2 hrs.
Drawing & Rendering 45-46 .....	4
Illustration 179 .....	2
Graphic Arts 104 .....	2
Figure Drawing 175-176 .....	4
Design, Painting, Sculpture .....	25 hours
Design 22 and 43 .....	4 hrs.
Still Life 47-48 .....	4
Modeling 59-60 .....	4
Weaving 106-107 .....	4
Crafts 101-102 .....	4
Costume 151 .....	3
Interior Decoration 171 .....	3

Appreciation and History .....	10 hours
Appreciation 29-30 .....	4 hrs.
History of Art 201-202 .....	6
Methods, teaching materials, observation, student teaching .....	10 hours
Methods in Teaching Art 191 .....	2 hrs.
Art for the Grades 121 .....	2
Student Teaching 124 .....	6

### COMMERCIAL TEACHER TRAINING

The general field of Business Education is divided into three specific fields: Stenography-Typing, Bookkeeping-Social Business, and Salesmanship-Merchandising. Students preparing to teach commercial subjects may follow a comprehensive major of 45 hours distributed over all three fields, or else a specific major of 40 hours in any one. The requirements for each follow:

*Business Education.*—Valid for teaching all subjects in the secretarial and commercial field. 45 semester hours distributed over all three fields and including second-semester Dictation, third-semester Accounting, Special Methods, High School Methods, one minor, general requirements, and professional requirements.

*Stenography-Typing.*—Valid for teaching Shorthand, Typewriting, Business English, Clerical Practice, and Secretarial Practice. The course must include fourth-semester Dictation, preparation for the other valid teaching subjects, Special Methods, and pertinent electives to total 40 hours; also two minors, High School Methods, general requirements, and professional requirements.

A minor in this field includes Shorthand, Typewriting, and Dictation, 14 hrs.; Special Methods, 3 hrs., and 3 hours of pertinent electives.

*Bookkeeping-Social Business.*—Valid for teaching Bookkeeping, Business Law, Economic Geography, Business Economics, Business Organization and Management. The course must include fourth-semester Accounting, preparation for the other valid teaching subjects, Special Methods, and pertinent electives to total 40 hours; also two minors, High School Methods, general requirements, and professional requirements.

A minor in this field includes Accounting, 9 hrs.; Business Law, 3 hrs.; Economic Geography, 3 hrs.; Business Administration, 3 hrs.; and Special Methods, 2 hrs.

*Salesmanship-Merchandising.*—Valid for teaching Merchandising, Retail Store Selling, Salesmanship, Advertising, and Economic Geography. The course must include Marketing, 3 hrs.; Salesmanship, 3 hrs.; preparation for the other valid teaching subjects; Special Methods; and pertinent electives to total 40 hours; also two minors, High School Methods, general requirements, and professional requirements.

A minor in this field includes Marketing Principles, 3 hrs.; Salesmanship, 3 hrs.; Advertising; Retailing; Merchandising; Economic Geography; and pertinent electives to total 20 hours.

### CURRICULUM IN COMMERCIAL TEACHER TRAINING

#### *First Year, General College*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3	English 2 .....	3
Introduction to Social Sciences 5	3	Introduction to Social Sciences 6	3
Hygiene, Physical and Mental 15	3	Hygiene, Physical and Mental 16	3
Military Training (Men) .....	1½	Military Training (Men) .....	1½
Mathematics, Accounting, or Foreign Language .....	3 or 4	Mathematics, Accounting, or Foreign Language .....	3 or 4
Introduction to Humanities 7 ....	3	Introduction to Humanities 8 ....	3

First Semester		<i>Second Year, General College</i>		Second Semester	
	Cr. Hrs.		Cr. Hrs.		Cr. Hrs.
Introduction to Natural Science 9	3	Introduction to Natural Science 10	3		
General Psychology 41	3	Educational Psychology 52	3		
Military Training (Men)	1½	Military Training (Men)	1½		
Language or Major	3	Language or Major	3		
Literature	3	Literature	3		
Typewriting (Major) 51	2	Typewriting (Major) 52	2		
Introduction to Education 55	3	Major	3		

Major subjects to be selected from Accounting, Business Administration, Business Law, Consumer Economics, Economic Geography, Filing and Machine Calculation, Secretarial Procedure, Selling and Advertising, and Shorthand.

#### *Third Year, College of Education*

Special Methods	2 or 3	High School Methods 113	3
Economics 41	3	Special Methods or Major	2 or 3
Fundamentals of Speech 76	3	Economics	3
Major or Minor	6 to 9	Major or Minor	6 to 9

Additional major subjects: Advertising, Business Correspondence, Dictation, Marketing, Purchasing.

#### *Fourth Year, College of Education*

Student Teaching 124	6	Principles of Education 201	3
School Management 115	2	Major, Minor, or Elective	13
Major, Minor, or Elective	8		

Additional major subjects: advanced work in any field for which prerequisites have been taken.

#### SCHOOL MUSIC COURSE

To obtain the B.S. in Education degree with a major in music, one must fulfill the basic requirements on page 107 plus the music major plus one minor.

The State Department of Education has now provided for certification in two separate fields: instrumental and vocal. Their content is shown below:

##### Instrumental Major

Methods, Materials and Observation	4 sem. hours
Conducting	2
Instrumental Classes	4
Theory (Ear training, sight singing, dictation, harmony, etc.)	16
Applied Music	16
History, Appreciation, and Literature	4
Ensemble	4

##### Vocal Major

Methods, Materials, and Observation	6
Conducting	2
Class Voice	2
Theory (Ear training, sight singing, dictation, harmony, etc.)	16
Applied Music	16
History, Appreciation, Literature	4
Ensemble	4

The work in applied music must include at least 4 credits of piano and 4 credits of voice. Class lessons cannot be substituted for individual lessons. Students are expected to participate in one or more of the musical organizations even though they have received the maximum of six credit hours.

#### HEALTH AND PHYSICAL EDUCATION

One may obtain a B.S. in Education degree with a major in Physical Education by following the suggested course outlined on next page and by planning electives to constitute one minor.

*First Year, General College*

First Semester	Cr. Hrs.	Second Semester	Cr. Hrs.
English 1 .....	3	English 2 .....	3
Introduction to Social Science 5 .....	3	Introduction to Social Science 6 .....	3
Introduction to Humanities 7 ....	3	Introduction to Humanities 8 ....	3
Hygiene, Physical and Mental 15 .....	3	Hygiene, Physical and Mental 16 .....	3
Foreign Language or Mathematics .....	3 or 4	Foreign Language or Mathematics .....	3 or 4
Military Training (Men) .....	1½	Military Training (Men) .....	1½

*Second Year, General College*

Introduction to Natural Science 9 .....	3	Introduction to Natural Science 10 .....	3
General Psychology 41 .....	3	Educational Psychology 52 .....	3
Physical Education 45 .....	3	Physical Education 46 .....	3
Introduction to Education 55 ....	3	Fundamentals of Speech 76 .....	3
Literature .....	3	Literature .....	3
Military Training (Men) .....	1½	Military Training (Men) .....	1½

*Third Year, College of Education*

Theory and Practice 103 .....	2 or 3	Theory and Practice 104 (Men) .....	2
Theory and Practice 105 .....	2 or 3	Theory and Practice 106 .....	2 or 3
Principles of Teaching 109 .....	3	Theory and Prac. 108 (Women) .....	3
Normal Diagnosis and Corrective Exercise 115 .....	2	Physical Education 114 .....	2
Anatomy 127 .....	3	Methods of Phys. Ed. 125 .....	2
First Aid 111 .....	1	Massage 112 .....	1
		Physiology 128 .....	3

*Fourth Year, College of Education*

Tests & Meas. 105 .....	2	School Management 115 .....	2
Org. and Adm. of Phys. Ed. 121 .....	2	School Health 118 .....	2
Kinesiology 124 .....	2	Org. and Adm. of Phys. Ed. 122 .....	2
Hygiene and Health Activities for Elementary Grades 131.....	2	Student Teaching 124 .....	6
Games for Elem. Grades 132 .....	1	Principles of Educ. 201 .....	3

## HOME ECONOMICS COURSE

To obtain the B.S. in Education degree with a major in home economics one must fulfill the basic requirements for promotion listed on page 107 plus the home economics major plus one minor.

## MAJOR IN HOME ECONOMICS

Foods .....	9 hours
General Foods 45-6 .....	6 hrs.
Advanced Foods 115 .....	3
Clothing .....	9 hours
Textiles 21 .....	3
Clothing 22 .....	3
Advanced Clothing 105 .....	3
General .....	12 hours
Child Development 125 .....	3
Home Management 122 .....	3
Home Economics Survey 53 .....	3
Selection of Home Furnishings 113 .....	3
Electives (from Home Economics Courses) .....	5 hours
Total .....	35 hours

**MINOR IN HOME ECONOMICS**

Foods .....	6 hours
General Foods 45-6 .....	6 hrs.
Clothing .....	6 hours
Textiles 21 .....	3
Clothing 22 .....	3
General .....	6 hours
Child Development 125 .....	3
Home Management 122 .....	3
Methods .....	.2 or 3 hours
Home Economics Education 155 .....	3
<hr/>	
Total .....	20 or 21 hours

**VOCATIONAL EDUCATION COURSE**

This course leads to the B.S. in Ed. degree and a Smith-Hughes certificate. All students must include the following subjects. Students wishing both the degree and the certificate must take in addition all the requirements for a degree (69 or 73 credits); those wishing only the certificate need include but 2 credits in Observation and Student Teaching instead of the 6 credits required for the degree.

	Cr. Hrs.
Major Field .....	24
Engineering Drawing .....	6
Occupational Analysis .....	2
Organization of Instructional Material .....	2
Methods of Teaching Occupational Subjects .....	2
Shop Management .....	2
Conference Method of Teaching .....	2
Educational and Vocational Guidance .....	2
Organization and Administration of Vocational Education .....	2
History and Philosophy of Vocational Education .....	2
Vocational Tests and Measurements .....	2

**STUDENT ADVISERS**

All students should confer with the following persons regarding their work according to the fields in which they expect to teach:

(This does not mean that students are not free to consult the Dean of the College regarding any of their problems.)

Art .....	MRS. BARNHARDT
Commercial Subjects .....	MR. DOUTT, MR. LEIGH
Four-Year Elementary .....	MR. DISTAD
High School .....	MR. KUHNES, MR. RIED
Home Economics .....	MISS SWIFT
Kindergarten-Primary .....	MISS KEMLER
Music .....	MR. ENDE, MISS RIDER
Physical Education .....	MR. SEPTON
Primary-Elementary .....	MISS KEMLER
Speech .....	MR. HITCHCOCK

**THE QUALIFYING EXAMINATION**

All students are required to pass satisfactorily a qualifying examination before engaging in student teaching. This examination covers (1) subject matter to be taught in the subjects or grades of the public school for which the student is certificated; (2) mastery of professional concepts, facts, and abilities which are taught in courses such as Psychology, History and Principles of Education, and Methods.

This examination is to be taken at the close of the junior year and is given in May and December, each year. This examination serves in the College of Education as the comprehensive examination which is required of all students for graduation. If a student has taken his student teaching prior to his attendance at the University of Akron, the passage of the examination is nevertheless required for the degree.

#### RECOMMENDATIONS FOR CERTIFICATION

Some students who receive degrees from the College of Liberal Arts wish to qualify for teaching. Some instruction regarding this is given on page 58. These persons will be recommended for certification on the basis of the major and minor requirements on page 108 and the completion of the courses listed above under Sequence of Pre-Professional and Professional course.

Admission to student teaching will be based upon the same point average requirement as in the case of students in the College of Education. Satisfactory work must be done in teaching fields and in education, particularly student teaching, to warrant recommendation for teaching certificates.

Every teacher in the public schools of Ohio is required to have a certificate covering the fields in which he is teaching. This certificate is issued by the State Department of Education upon recommendation of the Dean of the College of Education. The student must make out an application form, which may be obtained in the Dean's office or office of the Registrar. This form should be filled out about one month before the student plans to complete all of his requirements for teaching.

#### CONVERSION FROM SECONDARY TO ELEMENTARY CERTIFICATE

The holder of a high school certificate may be temporarily certificated for elementary teaching upon completion of 12 semester hours. The temporary certificate may be renewed by taking 12 semester hours of additional training each year until such time as all of the requirements of the general pattern for the training of elementary teachers are met. Upon completion of all of the requirements, the provisional elementary certificate will be issued.

Consult the Dean of College of Education for courses to be taken.

#### STUDENT TEACHING

The student teaching in all courses is done in the public schools under the supervision of critic teachers and a representative of the faculty of the College of Education. Each student must teach for a semester under regular assignment. Under such supervision the student teacher really assumes rather full teaching responsibility in the Public Schools.

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In addition to the qualifying examination a student, in order to be eligible to engage in student teaching, must have at least a quality point ratio of 2.5 in his major field, a quality point ratio of 2 in his minor fields, and at least a quality point ratio of 2 in all subjects taken.

### GRADUATE STUDY

The College of Education offers graduate courses leading to the following degrees: 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, the B. S. in Education or the B. E. degree). For further information about graduate work see section of the catalog headed Graduate Study.

For the convenience of graduate students the following suggestive programs have been outlined. The selection of one of these programs or some other program should be made in consultation with the Dean of Graduate Study, the Dean of the College of Education, or an adviser suggested by them.

ELEMENTARY EDUCATION		ELEMENTARY SCHOOL PRINCIPAL	
	Cr. Hrs.		Cr. Hrs.
Advanced Educational Psychology 303 .....	2	Advanced Educational Psychology 303 .....	2
Activity School 303 .....	3	Activity School 303 .....	2
Psychology of Child Development 308 .....	2	Educational Statistics 311 .....	2
Educational Diagnosis 313 .....	2	Educational Diagnosis 313 .....	2
Supervision of Instruction 322 .....	2	Psychological Systems 317-318....	4
Philosophy of Education 323 .....	2	Supervision of Instruction 322....	2
Technique of Research 425 .....	2	Educational Philosophy 323-324	4
Clinical Psychology 425-426 .....	4	Elementary School Administration 331 .....	2
Seminar in Curriculum 427 .....	2	Technique of Research 425 .....	2
Thesis .....	2	Clinical Psychology 425-426 .....	4
		Seminar in Curriculum 427 .....	2
		Thesis .....	2
SECONDARY SCHOOL PRINCIPAL		SUPERINTENDENT OF SCHOOLS	
	Cr. Hrs.		Cr. Hrs.
Adult Education 211 .....	2	Adult Education 211 .....	2
Guidance 301 .....	2	Guidance 301 .....	2
Advanced Educational Psychology 303 .....	2	Advanced Educational Psychology 303 .....	2
Educational Statistics 311 .....	2	Educational Statistics 311 .....	2
Advanced Educational Measurements 312 .....	2	Educational Diagnosis 313 .....	2
Psychological Systems 317-318....	4	Psychological Systems 317-318....	4
Secondary School Administration 320 .....	2	Secondary School Administration 320 .....	2
Public School Administration 321 .....	2	Public School Administration 321	2
Supervision of Instruction 322....	2	Supervision of Instruction 322 .....	2
Educational Philosophy 323 .....	2	Educational Philosophy 323 .....	2
Technique of Research 425 .....	2	Elementary School Administration 331 .....	2
Clinical Psychology 425-426 .....	4	Technique of Research 425 .....	2
Seminar in Curriculum 427 .....	2	Seminar in Curriculum 427 .....	2
Thesis .....	2	Comparative Education 433 .....	2
		Thesis .....	2

## SUBJECTS OF INSTRUCTION

An asterisk (\*) preceding the course number indicates the course is credited in the Liberal Arts College.

### ART

ASSOCIATE PROFESSOR BARNHARDT, ASSISTANT PROFESSOR CABLE,  
MR. FRENCH, MR. YOUNG, AND MRS. YOUNG

113. ADVANCED COMPOSITION. Second semester. 2 credits.

121. ART FOR THE GRADES. First semester. 2 credits.  
Prerequisite, 21.

191. METHODS IN TEACHING ART. Either semester. 2 credits.  
Prerequisite, completion of the required course for Art teachers and quality point ratio of 2 in the field.

For other courses in art see College of Liberal Arts.

### COMMERCIAL EDUCATION

PROFESSOR DOUTT, ASSISTANT PROFESSOR FLINT

151. METHODS IN SECRETARIAL SUBJECTS. First semester. 3 credits.  
Prerequisite, 42 and 52 and a quality point ratio of 2 in the field.

153. METHODS IN TYPEWRITING. First semester. 1½ credits.  
Credit may not be secured for both 153 and 151.

172. METHODS IN BOOKKEEPING AND GENERAL BUSINESS. Second semester. 2 credits.  
Prerequisite, Accounting 22 or 42, and a quality point ratio of 2 in the field.

For other courses in commerce and in secretarial science see College of Liberal Arts.

### EDUCATION

DEAN EVANS, PROFESSOR KUHNES,  
ASSOCIATE PROFESSORS DISTAD AND KEMLER,  
ASSISTANT PROFESSOR RIED, MR. FOSTER

#### GENERAL COLLEGE

41. HANDICRAFTS IN ELEMENTARY SCHOOL. 2 credits.

MR. HAMBURGER

\*55. INTRODUCTION TO EDUCATION. Either semester. 3 credits.

\*65. EDUCATIONAL SOCIOLOGY. Either semester. 3 credits.

\*83. STORY TELLING. First semester. 3 credits. MISS KEMLER

\*84. STORY TELLING. Second semester. 3 credits. MISS KEMLER

86. CHILDREN'S LITERATURE. Second semester. 3 credits.

MISS KEMLER

## UPPER COLLEGE

101. ACTIVITY SCHOOL. 3 credits. MISS KEMLER
103. METHODS IN TEACHING HANDWRITING. 1 credit.  
(Approved as 1939 summer session course)
105. EDUCATIONAL TESTS AND MEASUREMENTS. Either semester.  
2 credits. Prerequisite, 52. Fee \$2.00.  
MR. DISTAD AND MR. FOSTER  
People who have taken Educational Psychology 52 beginning the fall semester of 1939 are exempt.
107. VISUAL EDUCATION. 2 credits.  
(Approved as 1939 summer session course)
113. HIGH SCHOOL METHODS. Either semester. 3 credits.  
Prerequisite, Educational Psychology 52 and quality point ratio of 2  
in the field. MR. KUHNES
115. SCHOOL MANAGEMENT AND ADMINISTRATION. Either semester.  
2 credits. Accompanies Student Teaching.  
MR. DISTAD AND MR. RIED
120. TECHNIQUE OF CURRICULUM CONSTRUCTION. Second semester.  
2 credits. Prerequisite, a 100 course in Education. MR. EVANS
124. STUDENT TEACHING. Either semester. 6 credits. Seniors only.  
Prerequisite, Education 113 or equivalent.  
MR. RIED, MISS KEMLER, MR. DISTAD
131. PRIMARY METHODS. First semester. 3 credits.  
Prerequisite, quality point ratio of 2 in the field. MISS KEMLER
132. PRIMARY METHODS. Second semester. 3 credits.  
Prerequisite, Education 131. MISS KEMLER
133. SCIENCE FOR ELEMENTARY GRADES. First semester. 3 credits.  
Prerequisite, Introductory Course 9-10 and Psychology 52.  
MR. FOSTER
135. THE TEACHING OF READING. First semester. 3 credits.  
Prerequisite, Psychology 52. MISS KEMLER
136. THE TEACHING OF ARITHMETIC. Second semester. 2 credits.  
Prerequisite, Psychology 52. MR. DISTAD
137. THE TEACHING OF LANGUAGE ARTS. First semester. 2 credits.  
Prerequisite, Psychology 52. MISS KEMLER
138. THE TEACHING OF SOCIAL STUDIES AND SCIENCE. Second  
semester. 2 credits.  
Prerequisite, Psychology 52. MR. DISTAD

201. PRINCIPLES OF EDUCATION. Either semester. 3 credits.  
Prerequisite, the methods course in the field of the major. MR. KUHNES
211. ADULT EDUCATION. First semester. 2 credits.  
Prerequisite, Education and Psychology on 100 level. MR. HARDY

### GRADUATE COURSES IN EDUCATION

DEAN EVANS, PROFESSOR KUHNES, ASSOCIATE PROFESSOR DISTAD  
ASSISTANT PROFESSOR RIED, MR. FOSTER

Prerequisite to graduate courses in Education: At least 12 hours of undergraduate work in Education or the equivalent, and the Bachelor's degree or equivalent, and the provisional certificate for teaching.

301. GUIDANCE. 2 credits.  
This course is sometimes offered for the elementary grade level, sometimes for secondary schools. In either case, the emphasis is upon the function of the teacher in the school in the development of the child in terms of non-verbal aspects. It emphasizes the role of the teacher as guide and counselor in the areas of attitudes and personality development.
303. ACTIVITY SCHOOL. 3 credits. MISS KEMLER
- \*311. EDUCATIONAL STATISTICS. First semester. 2 credits.  
MR. EVANS
312. ADVANCED EDUCATIONAL MEASUREMENTS. Second semester.  
2 credits.  
Fee, \$2.00. 1939-40 and alternate years. Prerequisite, Education 311, or Psychology 315. MR. EVANS
313. EDUCATIONAL DIAGNOSIS. 2 credits. MR. DISTAD
320. SECONDARY SCHOOL ADMINISTRATION. Second semester.  
2 credits. MR. RIED
321. PUBLIC SCHOOL ADMINISTRATION. First semester. 2 credits.  
MR. EVANS
322. SUPERVISION OF INSTRUCTION. Second semester. 2 credits.  
MR. DISTAD
- 323-324. EDUCATIONAL PHILOSOPHY. 2 credits. MR. KUHNES
331. ELEMENTARY SCHOOL ADMINISTRATION. Second semester.  
2 credits. MR. FOSTER
401. GREAT TEACHERS. First semester. 2 credits. MR. KUHNES
423. CONCEPT OF MIND IN EDUCATIONAL THEORY. 2 credits.  
MR. KUHNES
425. PRINCIPLES AND TECHNIQUE OF RESEARCH AND INVESTIGATION.  
First semester. 2 credits. MR. DISTAD

427. SEMINAR IN CURRICULUM. Second semester. 2 credits.  
MR. EVANS
431. MODERN TENDENCIES IN EDUCATION. First semester. 2 credits.  
MR. KUHNES
- 433-434. COMPARATIVE EDUCATION. 2 credits each semester.  
MR. KUHNES

## GEOGRAPHY

## GENERAL COLLEGE

71. PRINCIPLES OF GEOGRAPHY. First semester. 3 credits.  
MR. FOSTER
72. GEOGRAPHY OF NORTH AMERICA. First semester. 3 credits.  
MR. FOSTER
73. GEOGRAPHY OF SOUTH AMERICA. Second semester. 2 credits.  
MR. FOSTER
74. GEOGRAPHY OF EUROPE. Second semester. 3 credits.  
MR. FOSTER

## HOME ECONOMICS

See under Home Economics in the College of Liberal Arts.

## KINDERGARTEN-PRIMARY EDUCATION

ASSOCIATE PROFESSOR KEMLER

## UPPER COLLEGE

126. PLAY MATERIALS. First semester. 2 credits. Fee, \$1.00.  
MISS KEMLER
- 127-128. KINDERGARTEN-PRIMARY METHODS. 3 credits each semester.  
MISS KEMLER
- 131-132. DALCROZE EURYTHMICS. 1 credit each semester.  
Offered in Evening and Summer sessions.

## MUSIC

ASSISTANT PROFESSORS ENDE AND RIDER, MR. STARR,  
MR. STEIN, MISS WILLS

The work in music is open to election by all students of the University who are properly qualified to take the courses offered, and may be included in certain fields of concentration in the Humanities Division of the Liberal Arts College and in the College of Education.

For description of other courses in Music see the Liberal Arts College section.

## THE SCHOOL MUSIC COURSE

MISS RIDER

The special music course leading to the degree B.S. in Education is designed to meet new state requirements and to prepare students for music education in the public schools. The work in applied music is taken either in the instrumental or in the vocal field. To enter, students must pass two entrance examinations: one in instrumental music, including piano, and one in sight singing. In order to qualify for graduation students are required to take a general final examination.

### GENERAL COLLEGE

- 81. INTRODUCTION TO MUSIC.** First semester. 2 credits.  
A course designed to give the student a fundamental knowledge of the problems of notation and to develop skills in sight singing and ear training. Taken for credit by students in elementary education and in the voice class. Others who need to take this course must do so without credit.
- 82. MUSIC LITERATURE AND APPRECIATION.** Second semester. 2 credits. Prerequisite, 81.  
A general orientation course presenting song materials used in the schools with continued development of skills. Taken for credit by students in elementary education. Others who need to take this course must do so without credit.
- 83-84. SECOND YEAR SIGHT SINGING AND EAR TRAINING.** 2 credits each semester. Prerequisite, 81 or equivalent.

### UPPER COLLEGE

- 131-132. KINDERGARTEN-PRIMARY MUSIC.** 2 credits each semester. Prerequisite, 81.
- 133-134. MUSIC EDUCATION.** 1 credit each semester. Prerequisite, 82. For students in elementary education.
- 121-122. SCHOOL MUSIC METHODS.** 2 credits each semester. Prerequisite, 84. For students in the school music course.
- 124. MUSIC APPRECIATION METHODS.** Second semester. 1 credit. For students in elementary education and in the school music course.
- 125. ORGANIZATION IN SCHOOL MUSIC.** First semester. 2 credits. Prerequisite, 88.

### PHYSICAL EDUCATION

PROFESSOR SEFTON, ASSISTANT PROFESSORS DOUGLAS, DOWLER,  
SMITH AND LOCKE, MISS HUBBARD

### GENERAL COLLEGE

- 45-46. BASIC COURSE IN PHYSICAL EDUCATION PRACTICE.** 3 credits each semester.  
Course includes the following sections: For men—sections I to VII inclusive. For women—sections I to VIII inclusive and X. This course is prerequisite to all upper college courses in the department.

**\*15-16. HYGIENE, PHYSICAL AND MENTAL.**

Students are required to enrol in one of the following laboratory sections each semester in connection with the required freshman course in Hygiene. Students majoring in physical education must take all sections.

**MEN**

- I Calisthenics (each semester) 1 credit.
- II Tumbling, Stunts, and Apparatus (each semester) 1 credit.
- III Swimming (each semester) 1 credit.
- IV Minor Sports—Speedball, Soccer, Volley Ball, Horseshoes, Tennis, etc. (each semester) 1 credit.
- V Remedial Gymnastics (each semester) 1 credit.
- VI Athletics—Football, Basketball, Track (each semester) 1 credit.
- VII Wrestling.

**WOMEN**

- I Folk and National Dancing (first semester) 1 credit.
- II Clog and Tap Dancing (second semester) 1 credit.
- III Danish Gymnastics (first semester) 1 credit.
- IV Tumbling, Stunts, and Apparatus (second semester) 1 credit.
- V Team Sports—Soccer or Hockey, Volley Ball, Basketball, Baseball (each semester) 1 credit.
- VI Beginning Swimming (first semester) 1 credit. (For those who cannot swim or those who wish to develop form in their strokes.)
- VII Advanced Swimming and Life Saving (second semester) 1 credit. (Permission of instructor.)
- VIII Individual and Leisure Time Sports—Archery, Badminton, Ping Pong, Paddle Tennis, Deck Tennis, Horseshoes, Tennis, etc. (each semester) 1 credit.
- IX Remedial Gymnastics (first semester) 1 credit. (For those who show marked postural defects at the time of the physical examination.)
- X Modern Dance (either semester) 1 credit.

**UPPER COLLEGE**

103. THEORY AND PRACTICE OF PHYSICAL EDUCATION (for women).  
First semester. 3 credits. MISS LOCKE

103-104. THEORY AND PRACTICE OF PHYSICAL EDUCATION (for men). 2 credits each semester.

MR. SEFTON, MR. SMITH AND MR. DOUGLAS

- 105-106. THEORY AND PRACTICE OF ATHLETICS. 2 credits for men each semester. 3 credits for women each semester.  
MR. SEFTON, MR. SMITH, MR. DOUGLAS, MR. DOWLER AND MISS LOCKE
108. THEORY AND PRACTICE OF DANCING. Second semester.  
3 credits. MISS HUBBARD
111. FIRST AID. First semester. 1 credit. MR. SMITH
112. MASSAGE. Second semester. 1 credit. MR. SMITH
114. THEORY AND PRACTICE OF SWIMMING. Second semester.  
2 credits.  
Prerequisite, Hygiene Swimming Lab. MISS LOCKE AND MR. SMITH
115. NORMAL DIAGNOSIS AND INDIVIDUAL CORRECTIVE GYMNASTICS AND CORRECTIVE EXERCISE. 2 credits. MR. SEFTON
118. SCHOOL HEALTH AND HEALTH PROBLEMS. 2 credits.  
MR. SMITH
- 121-122. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. 2 credits each semester. MR. SEFTON
124. KINESIOLOGY. 2 credits. MR. SMITH
125. METHODS IN PHYSICAL EDUCATION. 2 credits. MISS LOCKE
127. ANATOMY. 3 credits. MR. SMITH
128. PHYSIOLOGY. 3 credits. MR. SMITH
131. HYGIENE AND HEALTH ACTIVITIES FOR ELEMENTARY GRADES. 2 credits.
132. GAMES FOR ELEMENTARY GRADES. 1 credit. MISS LOCKE
- 131 and 132 will ordinarily be taken together.

### PSYCHOLOGY

PROFESSORS HAYES AND WOOD, ASSISTANT PROFESSOR STONEMAN

#### GENERAL COLLEGE

- \*41. GENERAL PSYCHOLOGY. Either semester. 3 credits.
- \*42. APPLIED PSYCHOLOGY. Second semester. 3 credits.  
Prerequisite, 41.

\*52. EDUCATIONAL PSYCHOLOGY. Either semester. 3 credits.  
Prerequisite, 41.

62. BUSINESS PSYCHOLOGY. Second semester. 3 credits.  
Prerequisite, 41.

## UPPER COLLEGE

\*105. CHILD PSYCHOLOGY. First semester. 3 credits.  
Prerequisite, 52. MR. HAYES

\*106. PSYCHOLOGY OF ADOLESCENCE. Second semester. 2 credits.  
Prerequisite, 9 hours of Psychology. MR. HAYES

111-112. EXPERIMENTAL PSYCHOLOGY. 1 credit each semester.  
Prerequisite, 42 or 52. MR. HAYES

\*207. MENTAL HYGIENE. First semester. 3 credits. MR. HAYES

208. ABNORMAL PSYCHOLOGY. First semester. 2 credits.  
Prerequisite, 12 hours of Psychology. MR. HAYES

\*209. SOCIAL PSYCHOLOGY. Second semester. 3 credits.  
MR. STONEMAN

\*210. GENETIC PSYCHOLOGY. First semester. 3 credits.  
MR. STONEMAN

## GRADUATE COURSES IN PSYCHOLOGY

302. ADVANCED SOCIAL PSYCHOLOGY. Second semester. 2 credits.  
MR. HAYES

303. ADVANCED EDUCATIONAL PSYCHOLOGY. First semester.  
2 credits. Prerequisite, 12 hours of Psychology.  
MR. STONEMAN

308. PSYCHOLOGY OF CHILD DEVELOPMENT. 2 credits.  
Prerequisite, 9 hours of Psychology. MR. HAYES

315. MENTAL TESTING. 2 credits. Fee, \$1.00. MR. HAYES

316. HISTORY OF PSYCHOLOGICAL THOUGHT. First semester.  
2 credits.  
Prerequisite, 12 hours of Psychology. MR. HAYES

317-318. PSYCHOLOGICAL SYSTEMS. 2 credits each semester.  
MR. HAYES

425-426. CLINICAL PSYCHOLOGY. 2 credits each semester.

Laboratory fee, \$2.00 a semester.

MR. HAYES

### RESEARCH

436. 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 the Dean, and whose problem is approved, may receive credit. Fee, \$5.00 per credit hour.

### VOCATIONAL EDUCATION

ASSISTANT PROFESSORS DOWNING, SCHAEFER, STROBEL AND  
FORNWALT, MR. SPALDING

Courses 101 to 106 inclusive are required for both the degree and state certification.

101 (102). OCCUPATIONAL ANALYSIS. 2 credits.

102 (125). ORGANIZATION OF INSTRUCTION MATERIAL. 2 credits.

103 (129). METHODS OF TEACHING OCCUPATIONAL SUBJECTS.  
2 credits.

104. VOCATIONAL TESTS AND MEASUREMENTS. 2 credits.

105 (115). SHOP MANAGEMENT. 2 credits.

106. CONFERENCE METHOD OF TEACHING. 2 credits.

107 (104). EDUCATIONAL AND VOCATIONAL GUIDANCE. 2 credits.

108 (127). HISTORY AND PHILOSOPHY OF VOCATIONAL EDUCATION.  
2 credits.

109. ORGANIZATION AND ADMINISTRATION OF VOCATIONAL EDUCATION.  
2 credits.

## GRADUATE STUDY

CHARLES BULGER, PH.D., *Dean*

In certain colleges and departments opportunity is offered properly qualified persons to study for the master's degree. In some of the departments graduate courses given in connection with the work in Adult Education have been arranged on a rotating plan to enable candidates to meet the requirements for a major or a minor.

Courses for graduate credit may be taken in the following departments:

English	Chemistry
Commerce	Mathematics
History	Physics
Sociology	Education
Biology	Psychology

It is planned that each of these departments will offer sufficient courses to enable students to complete a major or minor for a master's degree. Graduate courses are offered in rotation over a period of three to five years.

For details as to the actual courses offered, refer to the various colleges and departments.

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 received a bachelor's degree from a college of recognized standing. A transcript must be sent to the Registrar by the institution from which the applicant obtained his bachelor's degree. 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.

Total credit of 26 to 30 semester hours, including a thesis, is required of all candidates; 20 to 24 semester hours of this work must be done at the University of Akron. If both major and minor are laboratory sciences, the total credit required is 26 hours; if either major or minor is a laboratory science, the total credit required is 28; if neither major nor minor is a laboratory science, the requirement is 30 hours. The writing of a thesis is a requirement for the degree. Four hours of credit may be granted for the thesis. No work done more than five years previous to the date of granting the degree will be accepted in fulfilling the semester hour requirement. *Six* hours of graduate work may be done at another college subsequent to matriculation at the University of Akron. Graduate work done elsewhere previous to matriculation at the University of Akron will not be accepted.

No graduate credit will be granted for courses numbered under 200. Courses numbered 200-299 are primarily of senior (undergraduate) rank, and graduate credit may be established for these courses only when a greater amount and a higher quality (at least B) of work is done than is required of the undergraduate students. Courses numbered 300-399 are primarily graduate courses to which a very few undergraduates who have shown unusual ability may be admitted. Courses numbered 400-499 are graduate courses for which the prerequisite is a bachelor's degree.

For courses in the 300 and 400 series no credit toward the master's degree will be allowed for work which receives the grade of D and not more than *six* hours of credit for work which receives a grade of C.

Choice of the major and the minor must have the approval of the Committee on Graduate Study. The minor may be elected in a college or division or department other than that in which the major is taken.

The thesis must have the approval of each member of the Thesis Committee. The thesis topic must be selected by November 1 of the academic year in which the student expects to graduate. Two copies of the thesis must be presented to the Dean of Graduate Study one month before the Commencement at which the candidate receives his degree; both copies shall be placed in the library.

Not later than one semester previous to the period at which the work for the degree will presumably be finished, the student must file with the Registrar a notice of intention to apply for the degree.

The following fees must be paid at the time application for the degree is filed:

Master's degree .....	\$10.00
Thesis fee .....	\$10.00
Binding fee, approximately, a volume —	\$1.40 to \$1.75

Each candidate must pass final written and oral examinations covering the major and minor fields.

## THE DIVISION OF ADULT EDUCATION

LESLIE P. HARDY, M.S.ED., *Director*

### THE EVENING SESSION

#### ADMISSION REQUIREMENTS AND REGISTRATION

The admission of any student to the University of Akron will depend upon the evidences of his preparation and ability to do college work in a satisfactory manner. The evidences are : (1) graduation from an accredited four-year secondary school or its equivalent; (2) quality of work done in the secondary school; (3) ranking in certain tests given by the University to determine preparation, ability, and aptitudes; (4) attitude toward college work.

In determining the admission of any applicant, consideration is given to the above factors. A low ranking in any one will require a higher ranking in the others. For example, a student whose secondary school average is low may be admitted if his ranking in the tests is high. Also, an applicant with a fair secondary school record may make such a poor ranking in these tests as not to qualify for admission.

Entrance examinations are given at 7 P. M. on September 16 and 17. Candidates for admission must take both examinations.

Students of maturity, over 21 years of age, who have not graduated from high school, may be admitted to certain courses upon presentation of sufficient evidence of preparation, aptitude, ability, and interest. These students are known as special students, and work taken by them does not count toward a degree until entrance requirements are met.

Students from other colleges should present a statement of good standing from the registrar of the institution last attended. If transfer students are expecting to continue in attendance at the University of Akron, it is necessary that a transcript and honorable dismissal be sent from the college last attended direct to the Registrar of the University of Akron.

Registration dates for 1940-41 are: First Semester—Friday and Saturday, September 20 and 21, 1940; Second Semester—Friday and Saturday, January 31 and February 1, 1941. Registration is in Buchtel Hall. For late registration an additional fee of \$1.00 is charged.

#### AUDITORS

Auditors are not required to participate in class discussions or examinations, and do not receive credit. The fee is the same as for regular credit enrolment. Designation as an auditor should be made at the time of registration.

### ACADEMIC CREDIT

The unit of credit is the semester hour which requires class meetings totaling 15 clock hours or more for lecture-discussion types of classes with additional time for laboratory classes.

For graduation from the University, the student must present 128 semester hours with a quality point ratio of 2 for all work carried. No student is eligible for a degree unless he has the same ratio of quality points in his major subject as is required for graduation. Students taking the co-operative course in Engineering are required to present 142 semester hours. Candidates for a degree are required to file an application with the Registrar by March 1 of the year in which they expect to graduate.

### CONSULTATION

The Director of Adult Education and staff maintain office hours to consult with students concerning the selection of courses, and other academic problems. Student programs should be carefully planned with the aid of the Office of Adult Education. It is also advisable that persons in the Upper Colleges should confer as frequently as is possible with their advisers in the field of concentration. It is wise to obtain this advice previous to the registration period, although members of the faculty will be present on registration days to confer with those who come to register.

### LOAD

For those holding full-time positions 6 credit hours of work in any semester are regarded as the maximum load that should be attempted.

There is no fixed rule that the student cannot carry more, but experience and records show that over 6 hours is a burden to the student working full time during the day rather than a schedule to be accomplished satisfactorily.

### ATTENDANCE

Students are expected to be present at all meetings of classes for which they are registered. Upon request the instructor may permit a student to make up work missed through unavoidable absence. 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 approval of the Director are necessary for reinstatement.

Necessary withdrawals on account of serious illness or other causes entirely beyond the control of the student will be ruled upon as the individual cases arise. Copies of the rules are printed on the reverse side of the student identification card given when fees are paid. Application blanks for adjustment of fees may be obtained at the Director's office.

The University reserves the right to cancel courses in which the registration is insufficient to warrant their continuance, in which case the fees are refunded. It is usually possible for the student to transfer to some other course being given.

#### GRADING SYSTEM

Information concerning the grading system will be found in the General Regulations section.

#### THE COLLEGE OF EDUCATION

Those who are working toward graduation in the College of Education should consult with the following advisers concerning the curriculum requirements for the degree or diploma toward which they are working.

Kindergarten and Primary Elementary .....	MISS CLARA KEMLER
Elementary .....	MR. H. W. DISTAD
High School .....	MR. E. L. KUHNES, MR. RIED
Art .....	MRS. JANE S. BARNHARDT
Commercial Subjects .....	MR. H. M. DOUTT AND MR. W. W. LEIGH
Music .....	MR. ELMER ENDE AND MISS GENEVIEVE RIDER
Vocational Education .....	MR. ROY FARNWALT
Physical Education .....	MR. F. S. SEFTON

New students in the College of Education should confer with the proper advisers before they have registered, in order that they may avoid duplication of courses, especially if they have attended another college. In this case a transcript from the last institution attended should be sent directly from the college to the University Registrar, who will evaluate such work toward the degree sought. Certain courses in the College of Education are counted toward other degrees. Those desiring to so count them should consult with the Dean of the college concerned or the Registrar.

#### STATE CERTIFICATE

All who are attempting to meet the requirements for a state certificate for teaching may obtain at the office a list of the state requirements together with a statement of the courses which are being offered this year at the University and which will be acceptable in meeting these requirements.

#### STUDENT ACTIVITIES

The Evening Session Student Council is organized through the election of class representatives who, in turn, select the Student Senate, composed of eight members.

The Evening Theatre, which is open to all students of the Evening Session interested in dramatics, presents one or more major productions each year, and also numerous one-act plays.

The A E Honorary Fraternity is made up of those students who have met the requirements for an A E Key, which is awarded on the basis of activities and scholarship in the Evening Session.

## CLASS SCHEDULE

Each course scheduled is followed by a number which is used to identify it. For example, Accounting 43 is offered the first semester; therefore 22 is written under the prerequisite column, and should be completed before enrolling in the course numbered 43.

Under the column headed "credit hours" is the number of credits allowed at the completion of the course toward the appropriate degree. If the number of credits is enclosed in parentheses, it indicates that no college credit is attached to the course. Ordinarily the fee depends upon the number of credits.

## 1939-40 SCHEDULE OF EVENING CLASSES

Dept. *Semester	Subject	Prereq- uisite	Cr. Hrs.	Days	Time	Room	Instructor
<b>ART</b>							
1-2	Art Appreciation, 29-30	..	2	W.	6:30-9:15	PH	Barnhardt
1-2	Still Life, 47-48	46	2	Th.	6:30-9:15	PH	Cable
1.2.	Art for the Grades, 121	..	2	M.	6:30-9:15	PH	Riblett
1-2	Weaving, 106-107	43	2	T.	6:30-9:15	PH	Cable
1-2	Commercial Art, 131-132	..	2	W.	6:30-9:15	PH	French
1-2	Figure Drawing, 175-176	48	2	T.	6:30-9:15	PH	Novotny
1-2	History of Art, 202-202b	..	2	M.	6:00-7:50	PH	Barnhardt
<b>BIOLOGY</b>							
1-2	Bacteriology, 107-108	..	2	M.	6:00-7:50	O25	Fox
1	Conservation, 82	..	3	M.W.	8:00-9:25	O25	Glenny
2	Nature Study, 35	..	3	M.W.	8:00-9:25	O25	Glenny
<b>CHEMISTRY</b>							
1-2	Metallurgy, 137-138	..	2	M.	6:00-7:50	SH6	Grove
2	Latex Technology, 326	..	2	T.	6:30-8:20	K22	Cramer
1	Chemistry, 22	21	4	T.Th.	6:25-9:50	K22	Haas
<b>COMMERCE</b>							
1-2	Accounting, 21-22a	..	3	M.W.	6:00-7:50	SH265	Hersh
1-2	Accounting, 21-22b	..	3	M.W.	8:00-9:50	SH265	Hersh
1-2	Accounting, 21-22c	..	3	T.Th.	6:00-7:50	SH265	Hilliard
2	Accounting, 21	..	3	M.W.	6:00-7:50	SH271	Hilliard
1	Accounting, 22	21	3	T.Th.	8:00-9:50	SH269	Davis
1-2	Accounting, 43-44	22	3	T.Th.	8:00-9:50	SH265	Davis
1	Accounting Systems, 230	44	3	M.W.	6:25-7:50	SH269	McKee
2	Specialized Accounting, 235	232	3	M.W.	6:25-7:50	SH269	McKee
1-2	Cost Accounting, 127-128	43	3	M.W.	8:00-9:25	SH269	McKee
1	Cost Accounting, 127b	127	3	M.W.	8:00-9:25	SH271	Hilliard
1	Advertising, 185	..	3	T.Th.	8:00-9:25	SH271	Busbey
2	Advanced Advertising, 186	185	3	T.Th.	8:00-9:25	SH271	Busbey
1.2.	Business Administration, 61	..	3	M.W.	6:25-7:50	SH271	Wiard
2	Business Management, 162	61	3	M.W.	6:25-7:50	SH271	Wiard
1-2	Business Law, 141-142	..	3	M.W.	8:00-9:25	SH277	Powers
1.2.	Selling and Advertising, 81	..	3	T.Th.	6:25-7:50	SH163	Leigh-Bailey
2	Marketing, 183	Eco.	3	T.Th.	8:00-9:25	SH163	Leigh
2	Market Analysis, 296	190	3	T.Th.	6:25-7:50	SH163	Leigh

\* 1-2—Courses continue through the year. 1.2.—Courses repeated second semester.

Dept. *Semester	Subject	Prereq- uisite	Cr. Hrs.	Days	Time	Room	Instructor
1	Statistics, 147 .....	Eco.	3	T.Th.	6:25-7:50	SH269	Bailey
1-2	Personnel Mgt., 164-165 .....	.. 2	M.		6:00-7:50	SH161	Sorenson
2	Traffic Management .....	.. 2	W.		8:00-9:50	SH279	Meeks
2	Credits and Collection, 174 .....	.. 2	Th.		8:00-9:50	SH279	Carney
<b>ECONOMICS</b>							
1	Pro. Prices and Income, 41 .....	.. 3	M.W.		6:25-7:50	B22	Ford
2	Current Eco. Prohs., 42 .....	.. 3	M.W.		6:25-7:50	B22	Ford
2	Labor Problems, 106 .....	41 3	M.W.		8:00-9:25	B32	O'Hara
<b>EDUCATION</b>							
1	Teaching of Arithmetic, 136 ..	.. 2	W.		6:00-7:50	SH281	Distad
2	Geography of Europe, 74 .....	.. 3	T.Th.		8:00-9:25	SH281	Foster
2	Teaching of Social Studies, 138 ..	.. 2	W.		6:00-7:50	SH281	Distad
1	Methods in Sec. Subjects, 131..	.. 3	T.Th.		4:30-6:00	SH275	Flint
2	School Management, 115 .....	.. 2	Sat.		8:00-9:50	S212	Ried
1	Tech. of Curr. Const., 120.65 or 109	2	M.		6:00-7:50	SH281	Ried
1	Literature for Upper Grades ..	.. 2	M.		8:00-9:25	B13	Samson
2	School Management (Secondary), 116 .....	.. 2	Sat.		10:00-11:50	S122	Ried
2	Methods in Bookkeeping and General Business, 172 .....	.. 2	T.Th.		4:30-5:55	SH172	Flint
<b>EDUCATION—GRADUATE</b>							
1	Activity School, 303 .....	.. 3	T.Th.		6:25-7:50	SH159	Kemler
1	Adv. Ed., Meas...Ed. 311, Psy. 231	2	Sat.		10:00-10:50	S213	Distad
1	Great Teachers, 401 .....	.. 2	M.		6:00-7:50	B13	Kuhnes
1	Supv. of Instruction, 322 .....	.. 2	M.		8:00-9:50	B13	Distad
†1	Tech. of Research, 425 .....	.. 2	W.		6:00-7:50	B13	Foster
† 2	Educational Statistics, 311 .....	.. 2	T.		6:00-7:50	B13	Foster
2	Educa. Diagnosis, 313 .....	.. 2	M.		6:00-7:50	B13	Distad
2	Pub. School Administration, 321 ..	.. 2	W.		6:00-7:50	B15	Ried
<b>ENGINEERING</b>							
1-2	Engineering Drawing, 21-22a ..	.. 2	M.W.		6:25-9:15	SH243	Maclachlan
1-2	Engineering Drawing, 21-22b ..	.. 2	T.Th.		6:25-9:15	SH243	Stotler
1	Machine Drawing, 23 .....	22 2	M.W.		6:25-9:15	SH242	Wilson
2	Descriptive Geometry, 44 .....	22 3	M.W.		6:25-9:15	SH242	Wilson
1-2	Industrial Electricity, 21-22 ..	.. 4	M.W.		6:25-9:15	SH56	Smith- Seigfried
1-2	Advanced Ind. Elec., 43-44 ...	.. 2	Th.		6:25-9:15	SH56	Walther
1	Time Study, 157 .....	.. 1	T.		6:00-7:50	SH279	Adendorff
2	Motion and Micro-Motion, 158.	.. 1	T.		6:00-7:50	SH279	Adendorff
2	Air Conditioning, 187b .....	.. 2	Th.		8:00-9:50	SH161	Curl
1	Architectural Drawing .....	.. (2)	Th.		6:25-9:15	SH242	Huff
1-2	Surveying, 21-22 .....	.. 2	T.		8:00-9:50	SH279	Durst
1	Heating and Ventilating, 187a..	.. 2	Th.		8:00-9:50	SH161	Curl
1	Bl. Pnt. Read. of Mach. Draw. ..	.. (2)	T.		7:00-9:00	SH242	Griffin
<b>ENGLISH</b>							
1-2	English, 1-2a .....	.. 3	M.W.		6:25-7:50	B37	Putman- Thackaberry
1	English, 1b .....	.. 3	M.W.		8:00-9:25	B26	Duke
1-2	English, 1-2c .....	.. 3	T.Th.		6:25-7:50	B37	Campbell

\* 1-2—Courses continue through the year. 1,2.—Courses repeated second semester.

† Required of all graduate majors or minors in Education.

Dept. *Semester	Subject	Prereq- uisite	Cr. Hrs.	Days	Time	Room	Instructor
1	English, 2 .....	1	3	M.W.	8:00-9:25	B22	Walker
2	English, 1a .....	..	3	M.W.	8:00-9:25	B37	Saunders
2	English, 1b .....	..	3	T.Th.	6:25-7:50	B26	Campbell
1-2	American Literature, 47-48 ...	2	3	M.W.	6:25-7:50	SH161	Raw
1	Shakespeare, 41 .....	2	3	T.Th.	6:25-7:50	B32	Spanton
1	Chaucer, 201 .....	6 hrs. Lit.	3	T.Th.	6:25-7:50	B22	Pease
1	Contemporary Poetry .....	..	2		By Radio over WADC		Hamilton
<b>HISTORY</b>							
1-2	English History, 151-152 .....	..	3	M.W.	6:25-7:50	B38	Ruppenthal
1	U. S. in Later 19th (1865-1900), 223 .....	..	3	T.Th.	6:25-7:50	B38	Moore
2	U. S. Recent (since 1900), 234. ..	..	3	T.Th.	6:25-7:50	B38	Moore
<b>HOME ECONOMICS</b>							
1-2	General Foods, 45-46 .....	..	3	M.Th.	4:00-6:20	C11	Swift
1-2	Nutrition, 119-120 .....	..	3	M.W.	6:25-7:50	C11	Sullivan- Klingler
1	Selection of Clothing, 22 .....	..	3	T.Th.	6:25-7:50	C7	Lathrop
2	Selection of House Furnishings ..	..	3	T.Th.	6:25-7:50	C7	Lathrop
<b>INDUSTRIAL ARTS</b>							
1-2	Handicrafts in the Elem. Sch....	..	2	W.	5:30-9:45	SS21	Hamburger
<b>INTRODUCTORY COURSES</b>							
1-2	Intro. to Natural Sci., 9-10 ...	..	3	T.Th.	6:25-7:50	SH155	Gray-Jones
1	Intro. to Hygiene, 16-15 .....	..	2	M.W.	8:00-9:25	SH155	Smith
1	Intro. to Social Sciences, 6 ....	5	3	T.Th.	6:25-7:50	SH155	Sherman
2	Intro. to Social Sciences, 5 ....	..	3	T.Th.	6:25-7:50	SH155	King
<b>JOURNALISM</b>							
1	News Writing and Editing, 53. ..	2	T.		6:00-7:50	B15	Vance
2	Feature Writing, 56 .....	53	2	T.	6:00-7:50	B15	Vance
<b>MATHEMATICS</b>							
1.2.	Algebra, 21a .....	..	4	M.W.	6:00-7:50	SH163	Bender
1.2.	Algebra, 21b .....	..	4	T.Th.	8:00-9:50	SH163	Tabler
1.2.	Trigonometry, 22 .....	..	3	T.Th.	6:25-7:50	SH165	Tabler
1-2	Analytics, 43-44 (Geometry).. ..	..	2	W.	8:00-9:50	SH165	Selby
1-2	Calculus, 45-46 .....	..	3	M.W.	6:25-7:50	SH165	Lipscombe
1	Theory of Equations, 205 .....	..	3	M.W.	4:30-5:50	SH161	Selby
1-2	Advanced Calculus, 201-202... ..	46	2	M.	8:00-9:50	SH165	Jones
<b>MODERN LANGUAGES</b>							
1-2	Spanish, 21-22 .....	..	4	T.Th.	6:00-7:50	SH157	Hilton
1-2	Second Year German, 43-44 ..	22	3	T.Th.	8:00-9:25	SH157	Albrecht
<b>MUSIC</b>							
1	Music Appreciation, 21 .....	..	2	W.	6:00-7:50	S212	Ende
1-2	Elementary Harmony, 43-44 ..	..	2	M.	6:00-7:50	SH157	Rider
2	General Theory, 21 .....	..	1	W.	7:00-7:50	S212	Ende
2	Dalcroze Eurythmics (Beginners) .....	..	1	Th.	6:00-7:00	Gym	Wells

\* 1-2—Courses continue through the year. 1.2.—Courses repeated second semester.

Dept. *Semester	Subject	Prereq. uisite	Cr. Hrs.	Days	Time	Room	Instructor
2	Eurythmics (Advanced) .....	..	1	Th.	7:00-8:00	Gym	Wells
1.2.	Voice Class, 45 .....	..	1	T.	6:00-7:00	CC31	Stein
1.2.	Voice Class, 46 .....	45	1	T.	6:00-7:00	CC	Stein
1-2	Voice Class, 47-48 .....	46	1	W.	6:00-7:00	CC	Stein
2	Intro. to Music, 81 .....	..	2	W.	6:00-7:50	SH157	Rider
1	Music Lit. and Appreciation, 82 ..	..	2	W.	4:30-6:20	S113	Rider
<b>PHYSICAL EDUCATION</b>							
1	Swimming (lab. only) (for men) ..	..	1	Th.	6:30-7:30	Gym	Smith
2	Municipal Recreation .....	..	2	T.	4:00-5:50	B15	Edmund
<b>PHYSICS</b>							
1-2	Physics, 43-44 .....	22	4	M.W.	6:00-9:00	SH55	Fouts
1	American Government, 41 ....	..	3	M.W.	6:25-7:50	O21	King
2	Comparative Gov't, 43 .....	..	3	M.W.	6:25-7:50	O21	Zeis
1	International Relations, 211 ...	..	3	M.W.	8:00-9:25	O21	Zeis
<b>PSYCHOLOGY</b>							
1	General Psychology, 41a .....	..	3	M.W.	6:25-7:50	B26	Stoneman
1	General Psychology, 41b .....	..	3	T.Th.	8:00-9:25	SH165	Hayes
1	Educational Psychology, 52 ...	41	3	M.W.	8:00-9:25	B38	Wood
2	Applied Psychology, 42 .....	41	3	T.Th.	8:00-9:25	SH165	Wood
2	Educational Psychology, 52 ...	41	3	M.W.	8:00-9:25	B38	Stoneman
2	General Psychology, 41 .....	..	3	T.Th.	8:00-9:25	B38	Stoneman
<b>PSYCHOLOGY—GRADUATE</b>							
1	Adv. Educational Psy., 303 ...	..	2	W.	8:00-9:25	B15	Stoneman
1-2	Psychological Systems, 317-318 ..	..	2	Th.	6:00-7:50	SH167	Hayes
2	Psy. of Child Development, 308 ..	..	2	T.	8:00-9:50	B22	Hayes
2	Adv. Social Psychology, 302 ...	..	2	Th.	8:00-9:50	SH167	Hayes
<b>SECRETARIAL SCIENCE</b>							
1	Office Methods, 26 .....	..	3	T.Th.	6:00-7:50	SH275	Funk
2	Secretarial Theory, 23 .....	..	2	Th.	6:00-7:50	SH273	Funk
1.2.	Business English, 35a .....	..	2	T.	6:00-7:50	SH281	Cohen
1.2.	Business English, 35b .....	..	2	M.	8:00-9:50	B15	Cohen
1.2.	Business Letters, 93 .....	..	2	T.	6:00-7:50	SH161	Doutt
1-2	Shorthand, 41-32 (Beginning) ..	..	3	M.W.	6:25-7:50	SH275	Facciuto-Self
2	Shorthand Review, 46 .....	52	3	T.Th.	6:25-7:50	SH269	Wettstytne
1-2	Typewriting, 51-52 .....	..	2	M.W.Th.	8:00-9:25	SH263	Summersgill- Early
1-2	Dictation, Inter., 83-84 ....	42 or 52	3	T.Th.	6:25-8:50	SH269	Leisy
1	Dictation, Inter., 85 .....	84	2	T.Th.	6:25-7:50	SH275	Wettstytne
2	Dictation, Adv., 186 .....	85	2	T.Th.	6:25-7:50	SH275	Wettstytne
1-2	Dictation, Adv., 187-188 .....	186	3	T.Th.	6:25-8:50	SH273	Flint
<b>SOCIOLOGY</b>							
1	Social Anthropology, 45 .....	Soph.	3	M.W.	8:00-9:25	B37	Hanson
1	Urban-Rural Sociology, 113 ...	31	2	W.	6:00-7:50	B32	DeGraff
1	Community Organization, 206 .	..	3	T.Th.	4:30-6:00	B22	Kruse
2	General Sociology, 41 .....	..	3	M.W.	8:00-9:25	B32	DeGraff
2	Leadership, 104 .....	..	2	W.	6:00-7:50	B32	DeGraff
2	Population Movements, 210 ...	..	3	T.Th.	4:30-5:50	B22	Kruse
2	Race Relations, 217 .....	41 or 42	3	T.Th.	6:25-7:50	B22	Thompson

\* 1-2—Courses continue through the year. 1.2.—Courses repeated second semester.

Dept. *Semester	Subject	Prereq- uisite	Cr. Hrs.	Days	Time	Room	Instructor
<b>SPEECH</b>							
1-2	Public Speaking, 41-42 .....	..	3	M.W.	8:00-9:50	B12	Hitchcock
2	Public Speaking, 41 .....	..	3	M.W.	6:25-7:50	B12	Kidder
1.2.	Bus. Men's Public Speaking, 47 ..	..	2	M.	8:00-9:50	SH167	Turner
1.2.	Bus. Men's Adv. Pub. Spkg., 48 ..	..	2	M.	6:00-7:50	SH167	Turner
1	History of the Theatre, 68 .....	..	3	T.Th.	6:25-7:50	B13	Varian
2	Play Production, 161 .....	..	3	T.Th.	6:25-7:50	B13	Varian
2	Radio Speaking, 181 .....	..	3	T.Th.	8:00-9:25	B13	Hitchcock
1	Speech for Classroom Tchr., 76 ..	..	3	M.W.	6:25-7:50	B12	Rukgaber

\* 1-2—Courses continue through the year. 1.2.—Courses repeated second semester.

## 1940 SUMMER SESSION

The Summer Session is an integral part of the University's program. The standards of academic and professional achievement are equivalent to those of the regular session and the courses taught and the instructors, with a few exceptions, are the same as for the fall and spring semesters. Credit obtained is fully recognized toward the various degrees and certificates which the University confers.

The nineteenth annual Summer Session begins Monday, June 17, and closes Friday, July 26.

### ADMISSION REQUIREMENTS

The admission of any student to the University of Akron will depend upon the evidences of his preparation and ability to do college work in a satisfactory manner. The evidences are: (1) graduation from an accredited four-year secondary school or its equivalent; (2) quality of the work done in the secondary school; (3) ranking in certain tests given by the University to determine preparation, ability, and aptitudes; (4) attitude toward college work.

Admission examinations for entering freshmen will be held on Friday, June 14 at 9 a. m. Attendance at both morning and afternoon periods is required.

Students from other colleges should present a statement of good standing from the registrar of the institution last attended.

### SPECIAL STUDENTS

Students of maturity, over 21 years of age, who have not graduated from high school, may be admitted to certain courses upon presentation of sufficient evidence of preparation, aptitude, ability, and interest. These students are known as special students, and work taken by them does not count toward a degree until entrance requirements are met.

### ACADEMIC CREDIT

The unit of credit is the semester hour, which requires class meetings totaling fifteen clock-hours for lecture-discussion classes, with additional time for laboratory classes.

All classes meet five days a week. A 2-hour class meets daily for a period of one hour for six weeks. A 3-hour class meets 1½ hours a day for six weeks.

Students receive reports by mail, at the close of the session, indicating the quality of work done and the amount of credit granted.

No student is allowed to enrol for courses aggregating more than six semester hours, except upon the approval of the Director.

### REGISTRATION

Registration for the 1940 Summer Session will be held in Buchtel Hall, June 17, from 8:00 a. m. to 4:00 p. m. Any person registering after June 17 will be charged a late registration fee of \$5.00. 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 Treasurer of the University as a part of registration. Registration and payment of fees should be made in person on June 17, or by mail before this date.

### FEEES

All fees are payable at the Treasurer's office before the student enters classes. A plan of deferred payments may be made with students who establish satisfactory credit arrangements. There is a small carrying charge for this service.

Maintenance fee for

1 to 4 credit hours, per credit hour .....	\$ 6.00
5 or 6 credit hours* .....	25.00
Student Activity Fee .....	1.50
Late Fee (applied after June 17) .....	5.00

\*For hours in excess of a six-hour load \$6.00 per credit hour is charged.

### APPOINTMENT BUREAU

The Dean of the College of Education is chairman of the Appointment Bureau for Teachers. Summer Session students may enrol for appointment without extra fee.

### STUDENT TEACHING

Student teaching will be done in the Akron and Barberton public schools. All requests for student teaching must be made to the Dean of the College of Education before May 15 with the understanding that those first enrolled will be assigned first. Notification will be given early in June. A deposit of \$10.00 is required with each formal application for student teaching.

### CERTIFICATION

Teachers who are planning the completion of courses for state certificates may complete this work in summer sessions at the University of Akron and in addition receive college credit toward a degree. Many subjects taught in the summer session are also credited toward degrees in the other colleges of the University.

Students who expect to complete the requirements at the close of the 1940 Summer Session for diplomas should file application in the registrar's office the first week of the Summer Session. A fee of \$2.00 will be charged.

### HIGH SCHOOL CERTIFICATES

One who has trained in a special field and wishes to qualify for the high school four-year provisional certificate must, in addition to the professional courses required for the special certificate, possess the following credits:

Organization and management in the academic field.....2 semester hours  
 Special methods in an academic major or minor .....2 semester hours  
 Student teaching in the high school academic field .....2 semester hours

### ELEMENTARY SCHOOL CERTIFICATES

In view of the fact that many who train for secondary work may wish later to go into elementary teaching, the following work in the elementary field is prescribed, as additional to that necessary for a high school provisional certificate, in order to obtain an elementary provisional certificate:

Special Methods in three elementary subjects,  
 one of which must be reading ..... 6 semester hours  
 Practice teaching in the elementary field..... 2 semester hours  
 Music in the grades ..... 2 semester hours  
 Art in the grades ..... 2 semester hours  
 Health Education in the grades ..... 2 semester hours

### GRADUATE STUDY

The Summer Session program offers opportunity for study on the graduate level. Students interested in graduate courses for advanced study should confer with the instructors in their specialized fields and with the Dean of Graduate Study if they wish to be candidates for the Master's degree.

Graduate work is offered in the following departments: Education, English, History, and Psychology.

### GUIDANCE

Guidance in the Public School Systems is becoming increasingly important. In response to this need the University Summer Session will offer a course in Guidance for Elementary Teachers conducted by Miss Avis Stevens, Cleveland Public Schools; Dr. Mortimer Myer, New York University; and Mr. George Weber, Akron Public Schools. The course for secondary school teachers and administrators will be taught by Dr. Harold O. Ried of the College of Education staff and Dean D. H. Gardner, Dean of Students.

## SUMMER EVENING CLASSES

Interest and attendance have been growing in evening classes during the Summer Session. Courses offered on Monday, Tuesday, and Thursday evenings from 6:30-8:45 are:

English 2, American Literature 47, Applied Psychology 42, Calculus 46, Economics 41, Business Management 162, Introduction to Social Sciences 6, and History and Philosophy of Vocational Education 108.

## 1940 SUMMER SESSION

Dept.	Class	Pre-requisites	Cr. Hrs.	Time	Room	Instructor
<b>ART</b>						
	Crafts, 101 .....		2	10:00-11:53	P.H.	Cable
	Weaving, 106 .....		2	8:00- 9:53	P.H.	Cable
	Still Life, 48 .....		2	10:00-11:53	P.H.	Barnhardt
	Art Appreciation, 29 .....		2	9:00- 9:53	P.H.	Barnhardt
<b>BIOLOGY</b>						
	Field Botany, 113 & 114 .....	*51-52	6	8:00-12:30	O-31	Acquarone
	Genetics .....	*61-62	3	8:00- 9:20	O-25	Jones
	Entomology .....	61-62	4	8:00-11:30	O-34	Kraatz
	(*Consent of instructor needed for omission of beginning lab. science.)					
<b>COMMERCE</b>						
	Selling & Advertising, 81 .....		3	7:35- 8:50	SH-271	Leigh
	Marketing, 183 .....	Eco. 41-48	3	9:00-10:30	SH-271	Leigh
	Business Management, 162..M.T.Th. Eve.		61 3	6:30- 8:45	B-12	Hilliard
<b>ECONOMICS</b>						
	Production, Prices & Income .....		3	9:00-10:30	SH-167	O'Hara
	(General Economics, 41)					
	Development of Economic Institutions ...		3	11:00-12:20	SH-167	O'Hara
	(Economic History, 44)					
	Production, Prices & Income, 41 .....		3	6:30- 8:45	B-12	
	.....M.T.Th. Eve.					
<b>EDUCATION</b>						
	Intro. to Education, 55 .....		3	9:00-10:20	S-113	Evans
	Ed. Tests & Measurements, 105 .....		2	11:00-11:53	SH-159	Distad
	High School Methods, 113 .....	51	3	7:35- 8:53	SH-163	Kuhnes
	School Management, 115 .....		2	7:00- 7:53	B-10	Coffeen
	Student Teaching, 124 .....	135 or 113	4			Ried
	Teaching of Reading, 135 .....		3	7:35- 8:53	SH-279	Stevens
	Teaching of Arithmetic, 136 .....		2	10:00-10:53	SH-157	Distad
	Teaching of Social Studies, 138 .....		2	9:00- 9:53	SH-159	Distad
	Principles of Education, 201 .....	113	3	11:00-12:20	S-113	Evans
	Workshop Groups .....	T.W.Th.	1	1:00- 3:00	SS216	
<b>EDUCATION GRADUATE</b>						
	Philosophy of Education, 232 .....		2	10:00-10:53	SH-279	Kuhnes
	Guidance in the Elementary School, 301..		3	10:00-11:20	B-26	Spec. Staff
	Guidance in Secondary Schools, 302 ....		2	9:00- 9:53	B-26	Ried- Gardner
	Seminar in Curriculum for El. Schools, 427 .....		3	8:00- 9:20	S-212	Morgan
	Technique of Research, 425 .....		2	8:00- 8:53	SH-159	Stoneman

Dept.	Class	Pre-requisites	Cr. Hrs.	Time	Room	Instructor
<b>ENGINEERING</b>						
	Engineering Drawing, 21 .....		2	8:00-10:53	SH-242	Wilson
	Engineering Drawing, 22 .....	21	2	8:00-10:53	SH-242	Wilson
	Machine Drawing, 23 .....	22	2	8:00-10:53	SH-243	Wilson
	Surveying, 21-22 .....		2	11:00-12:53	SH-279	Durst
<b>ENGLISH</b>						
	English, 1 .....		3	7:35- 8:53	B-37	Hamilton
	English, 2 .....	1	3	7:35- 8:53	B-13	Roberts
	Appreciation of Drama, 50 .....	2	3		B-13	Putman
	Shakespeare (advanced), 209 .....	41 or perm.	3	8:00- 8:53	B-32	Spanton
	English, 2 .....	M.T.Th. Evening	1	6:30- 8:45	B-13	Raw
	American Literature, 47 .....	M.T.Th. Eve.	2	6:30- 8:45	B-15	Pease
<b>HISTORY</b>						
	Amer. History Since Civil War, 42 .....		3	9:00-10:20	B-10	Moore
	Recent United States, 224 .....		3	11:00-12:20	B-38	Moore
	French Rev. & Napoleon, 241 .....		3	7:35- 8:53	B-38	Sappington
	Recent Europe, 246 .....		3	9:00-10:25	B-38	Sappington
	Ind. Reading & Research, 412 .....	Grad.		To be arranged		
<b>HOME ECONOMICS</b>						
	Nutrition, 119 .....		3	8:00- 9:20	C-11	Weber
	Nutrition, 120 .....		3	10:00-11:20	C-11	Weber
<b>INTRODUCTORY COURSES</b>						
	Intro. to Social Science, 5 .....		3	9:00-10:20	O-21	Sherman
	Intro. to Humanities, 7 .....		3	11:00-12:20	SH-163	Keister
	Intro. to Humanities, 8 .....		3	7:35- 9:20		Keister
	Intro. to Natural Science, 10 .....		3	9:00-10:20	SH-163	Gray
	Intro. to Hygiene, 15 .....		2	8:00- 9:53	SH-161	
	Intro. to Social Science, 6 .....	M.T.Th. Eve.	3	6:30- 8:45	B-37	Sherman
<b>JOURNALISM</b>						
	News Writing and Editing, 53 .....		2	11:00-11:53	B-10	Vance
<b>LATIN &amp; GREEK (Classical Literature)</b>						
	Classical Mythology, 99 .....		3	11:00-12:20	B-32	Young
	Roman Private Life, 114 .....		3	9:00-10:20	B-15	Young
<b>MATHEMATICS</b>						
	Algebra, 21 .....		4	10:00-11:53	SH-165	Jones
	Trigonometry, 22 .....		3	8:00- 9:20	SH-165	Lipscombe
	Calculus, (46 or 56) .....	M.T.Th. Eve.	3	6:30- 8:45	B-38	Lipscombe
	Analytics, 43 .....	M.T.Th. Eve.	2	6:30- 8:15		Jones
<b>MODERN LANGUAGES</b>						
	French, 21 .....		4	9:00-10:53	B-37	Fanning
	Spanish, 21 .....		4	9:00-10:53	SH-279	Internoscia
<b>MUSIC</b>						
	Appreciation of Music, 22 .....		2	11:00-11:53	SH-157	Rider
	Eurythmics .....		1	10:00-10:53	Gym	Fineberg
	Music Literature & Appreciation, 82 .....		2	12:00-12:53	SH-157	Rider
	Music Education, 87-88 .....		2	10:00-10:53		Rider
	Piano, Voice .....			To be arranged		Wills, Stein

Dept.	Class	Pre-requisites	Cr. Hrs.	Time	Room	Instructor	
<b>PHILOSOPHY</b>							
	Intro. to Philosophy, 55 .....		3	10:00-11:20	SH-269	Wood	
	Logic, 104 .....		3	8:00- 9:20	SH-269	Wood	
<b>PHYSICAL EDUCATION</b>							
	Swimming, Tennis, Archery .....		1	12:00-12:53	Gym	Smith	
	Health Activities in Elem. Grades, 131 ..		2	11:00-11:53	O-25	Smith	
<b>POLITICAL SCIENCE</b>							
	American National Government, 41 ....		3	10:30-11:53	O-21	Zeis	
	International Relations, 211 .....		3	7:35- 8:53	O-21	Zeis	
<b>PSYCHOLOGY</b>							
	General Psychology, 41 .....		3	7:35- 8:53	SH-277		
	Educational Psychology, 52 .....	41	3	10:30-11:53	SH-161		
	Child Psychology, 105 .....	41	3	9:00-10:30	SH-281	Hayes	
	Applied Psychology, 42 .... M.T.Th. Eve.	41	3	6:30- 8:45	B-26	Stoneman	
<b>GRADUATE PSYCHOLOGY</b>							
	Adv. Educational Psych., 303 .....		2	11:00-11:53	SH-281	Hayes	
	Psych. Systems, 318 .....		2	12:00-12:53	SH-281	Hayes	
<b>SECRETARIAL SCIENCE</b>							
	Shorthand Theory, 42 .....	41	3	9:00-10:20	SH-263	Self	
	Typewriting (Beginning), 31 .....	2	{	7:40- 8:53 10:30-11:53	SH-275	Summersgill	
	Typewriting, 52 .....	51	2	{	7:40- 8:53 10:30-11:53	SH-263	Summersgill
	Business English, 35 .....	2		11:00-11:53	SH-269	Self	
<b>SOCIOLOGY</b>							
	Modern Social Problems, 43 .....		3	7:30- 8:53	SH-273	DeGraff	
	Family, 204 .....		3	9:00-10:20	SH-273	DeGraff	
<b>SPEECH</b>							
	Fundamentals of Speech .....		3	7:30- 8:53	B-12	Rabe	
	Interpretation (Reading aloud), 51 .....		3	9:00-10:20	B-12	Rabe	
<b>VOCATIONAL EDUCATION</b>							
	History & Philosophy of Vocational Education ..... M.T.Th. Eve.		2	6:30- 8:30	B-10	Downing	

## COMMUNITY CO-OPERATION

The University of Akron, as a municipal university, aims to bring all of its departments into close touch with the activities of the city of Akron.

The following covers the work of the past year.

### THE COLLEGE OF ENGINEERING

Students in the College of Engineering work part-time in foundries, machine shops, and rubber factories, on construction and railroad work, and in municipal and county engineering departments. Engineering instructors make numerous tests of materials and equipment, and the facilities of the department are available to the technical men in local organizations for testing purposes.

### THE COLLEGE OF EDUCATION

In addition to the preparation of teachers for the Akron Public School system and other school systems of the state, the College of Education aims to increase the opportunities for the continued education of teachers already in service. Late afternoon, evening, and Saturday courses are offered. Students are required to do student teaching for one semester before graduation. This is made possible through the co-operation of the Board of Education. Members of the faculty consult with teachers and school administrators about their educational problems.

Although a clinic has not been formally organized in the fields of education and psychology, a wide and varied service is rendered to individuals and institutions, including welfare organizations and the public schools. This service includes not only testing of intelligence but measuring aptitudes and vocational interests, and diagnosis of educational and personality difficulties.

In September, 1938, the Board of Education of the City of Akron and the Board of Directors of the University approved a plan whereby the dean of the College of Education became an employee of both to serve as principal of Spicer Demonstration Laboratory School.

The office of the dean serves as a clearing house for requests for speakers, particularly for the parent-teacher organizations of the city or county.

### THE LIBRARY

The resources of the library are open to citizens 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.

### THE TESTING LABORATORY OF THE CITY OF AKRON

In accordance with the proposal made by the Directors of the University and accepted by the Akron City Council, the Testing Laboratory does much of the chemical and physical testing work of the city. It serves especially the Board of Education, the Police Department, the Service Department, and the Coroner's Office. It answers many calls requesting chemical or other technical information.

### 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. Lectures and informal talks have been given before luncheon clubs and other organizations in Akron and vicinity. Identification of zoological and botanical specimens is made from time to time by various members of the department.

### DEPARTMENT OF CHEMISTRY

Two fellowships in the chemistry of rubber technology, open to graduates of standard American colleges, have been established at the University of Akron by the Goodyear Tire and Rubber Company and the Firestone Tire and Rubber Company, for the purpose of training men for service in their laboratories.

### COMMERCE DEPARTMENT

The commerce department attempts to tie in closely with the business and economic life of Akron. Monthly, in co-operation with the Chamber of Commerce, a bulletin is issued analyzing Akron business trends. The department quite regularly makes traffic and occupancy surveys of the business district, which are used extensively. From time to time, consumer and advertising studies of a community nature have been made. The senior seminar at present is engaged in making a study, endorsed and sponsored by the Akron Chamber of Commerce and the Greater Akron Association, of business firms, which we hope will throw considerable light upon the economic foundations of our business life.

### DEPARTMENT OF HOME ECONOMICS

Students in the department of home economics are encouraged to take active part in clinics and private agencies which deal with problems related to home life. Special problems are selected by or assigned to mature students for study in such organizations as the Family Service Society, the public schools, and hospitals. Many students participate in program planning for women's organizations. They assist

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commercial firms in demonstrations and contests of consumers' goods. Studies in regard to selection and purchase of consumers' goods are made and reports are given to the public on their findings. Students use family case studies in economic, management, and feeding problems with a view to helping families make adjustments. Many students apply their knowledge of textiles, clothing, and house furnishing to department store selling and welfare organization.

#### DEPARTMENT OF PHYSICAL EDUCATION

Summer camp work is planned by the staff in physical education for boys in Akron. Students majoring in the department are doing playground and camp work in and near the city.

#### DEPARTMENT OF SOCIOLOGY

The department of sociology has active affiliations with the Summit County Children's Home, the Family Service Society, the Juvenile Court, the Y. M. C. A., and the City Hospital. These institutions and agencies provide the supervised training for the students who are actively interested in entering the profession of social welfare work.

The census tract maps for the City of Akron are under the direct supervision of the department of sociology. Surveys and special supervised studies are conducted by the department. Students are also trained in statistical research.

The department conducts an annual two-day Social Welfare Institute complimentary to the City of Akron and contiguous areas.

#### DEPARTMENT OF SPEECH

Two student assistants, under the supervision of a member of the teaching staff, have directed the speech clinic, to which anyone in Akron was privileged to come for advice regarding speech defects, and which offered remedial training to a limited number. The Speakers' Bureau furnished speakers to over 300 audiences. A number of one-act plays were presented for various organizations, in addition to which several students in the department have directed one-act plays for local groups. The department has also been active in preparing and producing radio programs for the purpose of presenting to the public the worthwhile activities of the several sponsoring groups.

#### THE DIVISION OF ADULT EDUCATION

Credit and non-credit courses of study are offered in the evening session and the summer session. Non-credit classes are arranged to meet the needs of many persons who want practical training for a particular vocation or avocation. Organized on a twelve-week basis, such courses were offered at the B. F. Goodrich Company, with an enrol-

ment fee of \$4.00, during 1939-40. The Community College classes are conducted on a twelve-week basis on the campus during the regular school year with an enrolment fee of \$5.00 per course.

The Division of Adult Education has co-operated with several departments of the University in sponsoring various institutes and conferences.

#### COMMUNITY COLLEGE

The courses offered in Community College are planned to satisfy the specific needs and interests of those persons who are not particularly interested in earning a college degree.

Classes are conducted on a lecture discussion basis. Additional classes will be arranged for fifteen or more persons interested in a subject not offered in the present program.

Each class meets for twelve weeks.

Classes held during the first semester of 1939-40 were: Blue Print Reading, Propaganda Analysis, Shop Mathematics, Fire Protection, Your Food Dollar, Practical English, Police School, Advanced Motion Study, Interior Decoration, Salesmanship, and Foremanship.

Classes held during the second semester, 1939-40 were: First Aid, Cartooning, Gregg Speed Class, Practical English, Commercial Spanish, Steam Engineering, Application of Mathematics to Strength of Materials, and Foremen's Forum.

#### ENROLMENTS

	1st Semester	2nd Semester
Community College .....	302	202
Goodrich Institute .....	161	171

During the 1939 Summer Session a conference on Reading Problems and a Safety Conference were held on the campus.

Com: 62  
 S. S. - 4  
 Arts - 152  
218

18  
 97  
116

65  
 22  
 249  
334  
 147

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SUMMARY OF STUDENTS

## SUMMARY OF STUDENTS IN DAY CLASSES, 1939-40

### BUCHTEL COLLEGE OF LIBERAL ARTS

	Men	Women	Total
Graduate Students .....	26	15	41
Humanities Division .....	23	23	46
Social Science Division (inc. Com. and Sec. Sci.) .....	114	61	175
Natural Science Division .....	46	9	55
Irregular Students .....	7	10	17
	216	118	334..... 334

### COLLEGE OF ENGINEERING

Graduate Students .....	1	--	1 <i>(Transfer)</i>
Regular Students .....	82	--	82
Irregular Students .....	12	--	12
	95	--	95..... 95

### COLLEGE OF EDUCATION

Graduate Students .....	13	7	20
Regular Students .....	33	92	125
Irregular Students .....	--	2	2
	46	101	147..... 147

### THE GENERAL COLLEGE

<b>NEW FRESHMEN</b>			
Regular Students .....	345	259	604
Irregular Students .....	6	3	9
<b>OTHERS</b>			
Regular Students .....	382	225	607
Irregular Students .....	12	9	21
	745	496	1241.....1241
			1817

A regular student is one who is classified for 8 or more credits per semester; an irregular student is classified for less than 8 credits.

## SUMMARY OF ALL STUDENTS IN THE UNIVERSITY

1939-1940

	Men	Women	Total
Graduate Students .....	40	22	62
Upper Colleges .....	298	185	483
General College .....	727	484	1211
Irregular Students .....	37	24	61
<hr/>			
Total Day Session Enrolment .....	1102	715	1817
Total Evening Session Enrolment .....	1245	789	2034
Total Summer Session Enrolment (1939) .....	166	274	440
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	2513	1778	4291
Less Duplicates .....	131	139	270
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Total Net Enrolment .....	2382	1639	4021

### ENROLMENT BASED ON STUDENT CREDIT HOURS

	Total Student Cr. Hrs.	*Full-time Student Equivalent
Buchtel College of Liberal Arts .....	9,408	294.0
College of Engineering .....	2,074	64.8
College of Education .....	4,138	129.3
General College .....	33,752	1,054.8
Evening Session .....	8,940	279.4
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	58,312	1,822.3
Summer Session (1939) .....	1,771	55.3
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	60,083	1,877.6

\* A full-time student is the equivalent of one student pursuing a normal full-time load (32 hours) during the academic year.

## DEGREES CONFERRED JUNE 13, 1939

## BUCHTEL COLLEGE OF LIBERAL ARTS

*Bachelor of Arts*

Sol Aidman	William Robert Eichelberger	Ben Harrison Logan
Ruth Gentry Andress (With Distinction)	Josephine Eleanor Flickinger	Robert Read Lynds
Cletus Merlin Becker	Lillian Ethel Fuston (With Distinction)	Jene Martin
Jane Zenith Bricken	Margaret Elizabeth Galbraith (With Distinction)	Anna Catharine McClellan
Melbourne L. Briscoe	Sol Goldberg	William Dare McConnell
James Herbert Brown, Jr. (With Distinction)	Bess Martha Graham (With Distinction)	Donald Benedict McFadden
Edgar Harrison Burnham	Curtice Pauline Gregory	William James McIntosh
Gertrude Mary Cahill (With Distinction)	Marjorie Ann Hanna	Joseph McIntyre
Marjorie Jane Cahill	Carl Arnold Hanson	Violet Oakes
Rae Marie Carrell	Betty Marie Harbaugh (With Distinction)	Willie Charlotte Price
Mary Windsor Chamberlin (With Distinction)	Ruth Josephine Heyburn (With Distinction)	Tressa Quell
Roger Franklin Cleave	Alice Lillian Higgins	Harold Gustav Raasch
Elizabeth Clemmer	Alice Jayne Hilbish	Darwin Decker Reichow
Betty Faye Cole (With Distinction)	Robert Erwin Huhn	Margaret Eleanor Rhodes
Victoria Cook	Dorothy Mae Jones	Jane Louise Rieker
Hazel Virginia Cooper	Evelyn Marie Kannel	Wade Clair Ruble
Margaret Louise Coovert	Robert Kalcher Keating	Gordon Earl Sayre
Anthony John Coscia	Lucien Fairfax Keller	John Schmahl, Jr.
Letitia Cunningham	Miriam Hazel Keller (With Distinction)	Forest Kendal Sibley
Eleanor Louise Dasch	Mary B. Kennedy	Henry Clay Smith (With Distinction)
Harriett Louise Davies	Harriette Evelyn Killings	Richard Holmes Stahl
Ronald Warren Dickson	Marian Elizabeth Kroeger (With Distinction)	Homer Jay Steiner, Jr.
George N. Dubina	Samuel Langerman	Howard Swires
Theodore Thomas Duke (With Distinction)	Robert Ernest Lessing	Donald Frederick Tenney
Walter George Dyer		Virginia Ruth Thompson
		Caroline Marguerite Truman
		John V. Vinciguerra
		David Richard Wilson

*Bachelor of Science*

Joseph George Balasco	Royal Cladene Gardner	Patricia Ann Nelan
Jane Louise Bartlett	Frank Joseph Grucella, Jr.	Samuel Merle Shobert
Hugh Raymond Brand	Jean Marion Jones	Philip Emerson Snyder
Samuel Milton Caplin	Robert Leroy Lemmon	Robert Lee Thornton
Andrew John Gard	Alvin LaCleda McMullen	

*Bachelor of Science in Applied Art*

Catherine Elizabeth Ebbert	Marian Virginia Kennedy	Betty Dent Sanford
	Barbara McConnell Shank	

*Bachelor of Science in Secretarial Science*

Mary Jane Berry	Kathryn Hooker	Mary Evelyn Smith
William Paul Bray	Ruth Mary Lee	Louis Trenner
Phyllis Marie Friess	Mildred Lillian Mundy	Betty M. Wettstyne
	Dorothy Jane Semler	

*Bachelor of Science in Business Administration*

James Raymond Berry (With Distinction)	John Lampasone	Grover Clayton Shuman
Harold Grundy Binns	Robert Lee Marsh	Albert B. Swift
Richard Eugene Conn	Clyde Okey McPeck	Chester Frank Teeple
Richard M. Greenwald (With Distinction)	Joseph Nicholas Miller	Carl Preslar Tenison
Robert J. Greenwald	Eric Charles Nicholls	George F. Waite
Naomi Gregg	Floyd Ellsworth Ogden	William Augustus Walzer
John Griffith, Jr. (With Distinction)	Richard James Parker	Herbert William Yoos
	Harry Wayne Rapp	Glenn F. Zettle
	Isidore C. Schneiderman	

## THE COLLEGE OF ENGINEERING

*Bachelor of Civil Engineering*

Donald Edward Lingo	Robert Otto Williamson
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*Bachelor of Electrical Engineering*

Serge Theodore Migdal	John Paul Slifko	Merle Robert Swinehart
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*Bachelor of Industrial Engineering*

Wilbur George Davidson	Fred John Locke
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*Bachelor of Mechanical Engineering*

Martin Batiuk (With Distinction)	John Frederick Good (With Distinction)	Earl Rottmayer
Donald Herbert Cornell	James Theodore Harris	Charles Joseph Schwarz
Robert Edmund Davies	Sumner Hunt Hawley	Anthony Jackson Smith
		Kenton William Zahrt

## THE COLLEGE OF EDUCATION

*Bachelor of Education*

Ida Dyer Boyle	Catherine Irene Grant	Maud Eunice Moore
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*Bachelor of Arts in Education*

Zola Frances Berk	Rose Gertz	Jean Marie Minter
Florence Elizabeth Brooks	Henry Kempler	Elaine Margaret Morgan
Katrina Ann Crow	Ruth Louise Kinney	Grace Thurston Richards
Helen Fleisher	Selma Leibowitz	Sarah Helen Rogers
Jack Linwood Flippo	Melba Lorraine Melson	Charles Con Skurvid

*Bachelor of Science in Education*

James Robert Appleby	Stanley Wallace Gingery	Juanita Luke
Sara McLaney Barker	Jean Emily Griffin	Faye Eleanor Mack
Irene Mae Bird	Theodore Roosevelt Henning	Elender E. Maglione
Herbert Russell Bracken	Elizabeth Anne Horvath	James Kamil Mallo
Marian L. Burnham	Matilda Elizabeth Prokop	Beatrice Virginia McCoy
Donald Eugene Chamberlin	Kandiko	Margaret Mary E. McCoy
Benette Elizabeth Chesnut	Mary Frances Karr	Audrey Elizabeth Michel
Evelyn Mae Christman (With Distinction)	Anne Elizabeth Kiesling	Rita Louise Mills
Jeannette Cohen	Louis James Killgrove	Robert Arthur Mott
Florence Yvonne Crano	Hannah Kodish	Maud Rudy Motz
Vivian Margaret Crawford	Barbara Oberritter Kortvesi	Alice Jessie Niestockel
Lillian Jane Dando	Walter F. Krebs	Anne Orlinoff
Elsie Eckert	Edna H. Litman	(With Distinction)
	Walter Emerson Loomis	Margaret Elizabeth Osborne

*Bachelor of Science in Education (Continued)*

Mary Pappas	Sister Mary Josephine Riffel,	Rose Anna Sourek
Lucille Marie Paridon	O. P.	Frances Lilyan Stewart
Bessie Ellen Peck	Gordon Earl Sayre	William Thomas Sturgeon
Annette Polstein	Robert Schepp	Helen E. Syroid
Frances Joan Poulos	Rosemary June Schmuck	Mary Etta Townsend
(With Distinction)	Violet Schnabel	Carl John Tsaloff
Martha Stuart Richardson	Richard Carl Schultz	Orpha Catharine Wagner
(With Distinction)	Vivian Roberta Semler	Margaret Augusta Wagner
Joseph Arthur Roenigk	Emmet Victor Semonin	William Joseph Ward
Phyllis Carol Rowland	Esther Mary Simonetti	Joseph M. Zemla
Sister Mary Bernard Friess,	(With Distinction)	Irene Mildred Zintel
O. P.		

## GRADUATE STUDY

*Master of Arts*

William Albert Harris A.B., University of Akron, 1935

*Master of Science*

Harry Elmer Albert B.S. in Chemical Eng., University of Pennsylvania, 1938

Ralph Henry Caston B.S., University of Akron, 1937

Emmett Jean Glazer B.S. in Chem., Ohio University, 1938

*Master of Science in Business Administration*

Florence Marie Amrein A.B., Heidelberg College, 1919

*Master of Arts in Education*

William A. Fishel A.B., Wittenberg College, 1921

Louis Rosenfeld A.B. and B.S., University of Akron, 1934

George Arlington Walker A.B. in Commerce, Ohio University, 1929

Irene Alice Ziegler Bach. of Music, Oberlin Conservatory of Music, 1928

*Master of Science in Education*

Edward Lester Hunt B.S., Denison University, 1927

Mendell Eugene Rimmel B.S., Mt. Union College, 1929

Joseph F. Switzer B.S. in Educ., Ohio Northern Univ., 1934

Edgar Pomeroy Weltner B.S. in Educ., Ohio State Univ., 1919

## HONORARY DEGREES

*Doctor of Science*

George Oenslager

*Doctor of Laws*

Charles Willard Seiberling

Frank A. Seiberling

CERTIFICATES AND COMMISSIONS  
 BUCHEL COLLEGE OF LIBERAL ARTS

*Two-year Certificate in Secretarial Science*

Ruth Irene Bertsch                      Jane Brock                      Ruth Shobert

THE COLLEGE OF EDUCATION

Certificates Granted Since June, 1938

*Three-year Certificate in Elementary Education*

Madelyn Arleen Kirby

*Two-year Certificate in Elementary Education*

Bess Canada Bate	Audrey Irene Knapp
Irene Mae Baumgardner	Sister M. Francis Harding, O.P.
Nancy Campbell Daniel	Mildred Pugh Smith
Myrl Moore Fisher	Ruth Wentworth Wert
Minnie Pettitt Henry	

RESERVE OFFICERS TRAINING CORPS

Students eligible to be COMMISSIONED SECOND LIEUTENANTS,  
 INFANTRY, OFFICERS' RESERVE CORPS, U. S. A.:

James Herbert Brown	Clyde Okey McPeck
Richard Eugene Conn	Edward Leroy Nicely
Anthony John Coscia	Eric Charles Nicholls
John Griffith, Jr.	Gordon Earl Sayre
Lucien Fairfax Keller	Philip Emerson Snyder
Robert Ernest Lessing	*Albert Benjamin Swift
Ben Harrison Logan, Jr.	Robert Lee Thornton
Robert Lee Marsh	Herbert William Yoos

Students eligible to be COMMISSIONED SECOND LIEUTENANTS,  
 QUARTERMASTER CORPS, OFFICERS' RESERVE CORPS, U. S. A.:

Jack Linwood Flippo	Robert Paul Higley
Richard Morton Greenwald	Marvin Earl Marquardt
Robert James Greenwald	

\* To be commissioned upon completion of summer training camp.

## HONORS AND PRIZES

### GRADUATION WITH DISTINCTION

Students who have an average grade of 90 per cent or better over all the work taken during the four undergraduate years are graduated with distinction. At least three of the four years work must be done at the University of Akron.

#### *Buchtel College of Liberal Arts*

Ruth Gentry Address	Margaret Elizabeth Galbraith
James Raymond Berry	Bess Martha Graham
James Herbert Brown, Jr.	Richard M. Greenwald
Gertrude Mary Cahill	John Griffith, Jr.
May Windsor Chamberlin	Betty Marie Harbaugh
Betty Faye Cole	Ruth Josephine Heyburn
Theodore Thomas Duke	Miriam Hazel Keller
Lillian Elizabeth Fuston	Marian Elizabeth Kroeger
	Henry Clay Smith

#### *The College of Engineering*

Martin Batiuk	John Frederick Good
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#### *The College of Education*

Evelyn Mae Christman	Martha Stuart Richardson
Anne Orlinoff	Esther Mary Simonetti
Frances Joan Poulos	

### PIXLEY SCHOLARS, 1939-40

IN ENGLISH—Gordon Hagerman, Elizabeth Ploenes, Marian Rawls, Kathleen Rogers.

IN SPEECH—Joanna Alogdelis, Max Nelson, Marian Rawls, Conrad Reining, Gale Richards.

IN MUSIC—Flute: Roger Schaeffer.

Organ: Pearl Brownsword.

Violin: Louis Brown.

### HONOR GRADUATE IN R. O. T. C.

Philip Emerson Snyder

### THE SUMMIT COUNTY HISTORICAL SOCIETY PRIZE—\$10.00

For the best essay on a topic concerning the HISTORY OF OHIO.

George Codrea—"Morgan's Raid Through Ohio."

### THE SENIOR ALUMNI PRIZE

Awarded to that senior student who has completed the regular undergraduate curriculum with the highest average grade for the work taken, having carried an average load of 12 credit hours per semester.

Marian Elizabeth Kroeger

THE ASHTON PRIZES FOR EXCELLENCE IN READING AND  
RECITATION

The General College Contest (May, 1939)

First Prize .....	Jack Butler
Second Prize .....	Albert Lockhart
Third Prize .....	Edwin Eshelman
Fourth Prize .....	Thomas Garner

The Upper College Contest (December, 1939)

First Prize .....	Joanna Alogdelis
Second Prize .....	Gilbert Thomas
Third Prize .....	Jack Butler
Fourth Prize .....	Gale Richards

THE OHIO STATE UNIVERSITY SCHOLARSHIP

Warren Louis Perilstein, B.S., June, 1937

HONORARY FRATERNITIES

PHI SIGMA ALPHA

*In Buchtel College of Liberal Arts, for scholarship in the senior class, an average of not less than 90 per cent; in the junior class, an average grade of not less than 92 per cent:*

Elected to membership from the Class of 1939

*As juniors in 1938:*

Mary Windsor Chamberlin	Miriam Hazel Keller
Betty Marie Harbaugh	Marian Elizabeth Kroeger

*As seniors:*

Ruth Gentry Andress	Bess Martha Graham
James Raymond Berry	Richard M. Greenwald
James Herbert Brown, Jr.	Robert J. Greenwald
Gertrude Mary Cahill	John Griffith, Jr.
Betty Faye Cole	Ruth Josephine Heyburn
Theodore Thomas Duke	Henry Clay Smith
Lillian Ethel Fuston	Vivian Stube
Margaret Elizabeth Galbraith	

*As juniors of the class of 1940:*

Frank L. Simonetti

SIGMA TAU

*In the College of Engineering, any engineering student in the upper college is eligible whose scholastic average for all his previous college work ranks him in the upper third of the combined pre-junior, junior, and senior students. Sociability and practicability are also considered.*

Glen Arthur Bishop	Robert Baker McCurdy
Herbert Henry Deist	William Fletcher Markey
George C. Fretz, Jr.	John Paul Slifko
John Henry Frye	

SIGMA PI EPSILON

*In the College of Education, elected from the Senior Class, for scholarship, citizenship, and artisanship. An average grade of 89 per cent and rank in the upper 15 per cent of the graduating class:*

Evelyn Christman	Martha Richardson
Mary Frances Karr	Esther Simonetti
Anne Orloff	Catherine Wagner

## THE UNIVERSITY OF AKRON ALUMNI ASSOCIATION

### OFFICERS OF THE GENERAL ASSOCIATION (1939-40)

<i>President</i> .....	JEROME TAYLOR, '28
<i>Vice-President</i> .....	MRS. STANLEY EMMITT, '13
<i>Secretary</i> .....	SHERMAN O. SCHUMACHER, '27
<i>Treasurer</i> .....	MAXWELL P. BOGGS

### EXECUTIVE COMMITTEE

JEROME TAYLOR, '28; MRS. STANLEY EMMITT, '13; SHERMAN O. SCHUMACHER, '27; and M. P. BOGGS.

### ALUMNI BOARD OF TRUSTEES

Term Expires June, 1940—CLARENCE E. MOTZ, '20; ALBERT E. SIDNELL, '14; RAYMOND BLISS, '35; ROSS A. WHITE, '03.

Term Expires June, 1941—MRS. DELBERT E. AUTEN, '30; GEORGE A. BOSS, '27; ROBERT IREDELL, '09; RUTH W. SEYMOUR, '11.

Term Expires June, 1942—ROY BROWNE, '37; DR. E. B. FOLTZ, '96; BYRON LARABEE, '26; JOHN PITTENGER, '31.

### ASSOCIATION BRANCHES

<i>Chicago</i> .....	<i>President</i> , DR. CARL E. FRICK, '16, 1716 E. 83d Place, Chicago, Illinois
<i>Cleveland</i> .....	<i>President</i> , MRS. J. RUDYARD GRAY, '32, 1143 Cranford Ave., Lakewood, Ohio
<i>Detroit</i> .....	<i>President</i> , THEODORE HARRINGTON, '25, 16800 Parkside, Detroit, Michigan
<i>Los Angeles</i> .....	<i>President</i> , GEORGE W. BRUNER, '15, 5471 West Boulevard, Los Angeles, California
<i>Pittsburgh</i> .....	<i>President</i> , ELMER RAWDON, x'27, 1117 James Street, Pittsburgh, Pennsylvania

The Alumni Association of the University of Akron was organized in 1874 to further the interests of the college and to promote fellowship among graduates and former students. To fulfill this purpose, the Association sponsors the annual Homecoming Celebration and the Alumni Banquet at Commencement time, as well as organizing alumni clubs in other cities, and publishing the alumni magazine, *The Akron Alumnus*.

All records of the Association, including card record files for each graduate and former student, biographical files, and historical data, are kept in the alumni office, headquarters of the Alumni Association, located in Phillips Hall on the campus. Three thousand, six hundred and twenty-nine students have been graduated from the University of Akron.

The Board of Trustees of the Alumni Association is the governing body and is composed of the officers and twelve trustees, all of whom must be graduates of the University. Only those who have paid their dues may vote or hold office.

There are three forms of membership dues in the Alumni Association: (1) Annual dues and subscription to the *Akron Alumnus*, \$2.00; (2) Life Membership Pledge (paid in three installments of \$10 each) \$30.00; (3) Alumni Loyalty Bond (paid in five installments of \$10 each), \$50.00.

The first three installments on the \$50.00 bonds are paid to the Alumni Association in full payment of a life membership in the Association, and the last two installments are paid to the University of Akron to be applied on an Alumni Loyalty Fund. This fund is used for capital investment or endowment purposes as the Board of Directors of the University may deem best.

Checks for dues and pledges should be made payable to the University of Akron Alumni Association.



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