# The <br> <br> University of Akron 

 <br> <br> University of Akron}

Annual Catalog 1943-1944
With Announcements For 1944-1945

Published By
THE UNIVERSITY OF AKRON, AKRON, OHIO

## $\therefore \quad$ The University's War Program

* On December 12, 1941, attention of the faculty and students was called to the fact that a twelve-month educational program of instruction was imperative. With this plan in mind, the University Council voted that various curricula should be preserved, but the time required for completion of the required work for graduation should be shortened by one year. A twelve-week summer session was introduced, retaining the sixweek term for teachers and others unable to attend the longer session.

Convocations for the conferring of degrees are now being held three times a year-in September, January, and June-for the duration of the war.

In February, 1943, the University was selected as one of the educa. tional institutions approved for a training program for the Army Air Force. On March 9 a unit of 125 men arrived on the campus, and on April 1 another unit of 125 . This was known as the Third College Training Detachment (Air Crew). Men were housed at 290 South Main Street and their meals were prepared and served in the University Student Building Cafeteria.

This program called for five months' training, units declared sufficiently trained before the completion of the program being transferred and replaced. The program terminated April 29, 1944.

The Officers of the Third College Training Detachment were:
Lieutenant Colonel Albert L. Tuttle
Major Ned C. Garten
First Lieutenant Lawrence B. Brown
First Lieutenant George R. Cartwright
First Lieutenant Russell L. Ivy
First Lieutenant Edward W. Estlow
First Lieutenant Jean C. Nicholson
Second Lieutenant Leo J. Sebastian
The Junior Engineer College Training Program for Women, beginning in June, 1943, was carried on for six months, in co-operation with the Goodyear Aircraft Corporation.

In co-operation with the City Hospital, Peoples Hospital, and St. Thomas Hospital, specifically to serve the local hospitals, a program for the training of nurses was offered as an integral part of the 1943 Summer Session. All courses carried college credit. This program was continued in September, and in February, 1944, students from Canton and Massillon enrolled in the Nurses Training Course under similar arrangements.

On September 13, 1943, 125 army men were assigned to the University to take a basic engineering course, known as the Army Specialized Training Program, requiring three twelve-week periods. This program was discontinued at the University of Akron on March 4, 1944. The men in this 3538th Service Unit of the Army Specialized Training Program were housed at 466 East Market Street and ate at the U. S. B. Cafeteria.

Officers of the 3538th Service Unit, ASTP, were:
Lieutenant Colonel Albert L. Tuttle
Captain Pete W. Jacoby
Second Lieutenant Paul B. Porter
Second Lieutenant Donald C. Zeiger

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## 1945



## UNIVERSITY FACULTY AND ASSISTANTS

1943-1944
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, 1912; D.Sc., College of Wooster;

LL.D., Univeraity of Toledo.
Paul Acquarone, Associate Professor of Botany and Geology (1931)
B.S.. Pennsylvania State College; Ph.D., Johns Hopking University, 1929.

Joanna Alogdelis, Instructor in Speech (June, 1942)
B.A., University of Akron; M.A., State University of lowa, 1941.

Frederic E. Ayer, Dean of the College of Engineering, including the Daniel Guggenheim Airship Institute (March, 1914) C.E., Lafayette College, 1900.

Paul R. Baldacci, Assistant Professor of Physical Education, and Football Coach (1942)
b.S., William and Mary College, 1931.

Summerfield Baldwin, 3rd, Professor of History and Acting Head of the History Department (February, 1943)
A.B., A.M., Ph.D. 1928, Harvard University.

Mrs. Jane Barnhardt, Professor of Art (June, 1923)
B.E., M.Ed. 1930, University of Akron.

Russell J. Beichly, Assistant Professor of Physical Education and Basketball Coach (March, 1940)
B.A., Wittenberg College, 1926.
*Harry A. Bender, Associate Professor of Mathematics (1928) B.A., Ohio Univeraity; M.A., Ph.D. 1923, University of Illinois.
$\dagger$ Leonard J. Bisbing, Instructor in Commerce (1942)
b.S.Com., Regis College, Deaver, Colorado; M.S.Com., University of Denver, 1939.

Maxwell P. Bogcs, Treasurer of the University (March, 1927) B.A., Muskingum College, 1924.

Boris W. Bocuslavsky, Professor of Structural Engineering (June, 1942) B.S.C.E., M.S.C.E., Univerxity of Washington; D.S.C.C.E., Massachusetts lastitute of Technology, 1938.

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.
Rena Nancy Cable, Assistant Professor of Art (March, 1929) B.E., M.Ed. 1931, University of Akron.

Lula Caine, Instructor in History (February, 1943) A.B., University of 111 inois; M.A., Pb.D. 1929, Univeraity of Chicago.

James M. Campbell, Special Instructor in String Instruments and Evening Session Instructor in English (1933) B.A., University of Akron; M.A., Western Reserve University, 1938.
$\ddagger$ William B. Champney, Assistant Professor of Aeronautical Engineering (The Daniel Guggenheim Airship Institute) (1940) B.S., M.S. 1940, Case School of Applied Science.

Ernest G. Chilton, Assistant Professor of Aeronautical Engineering (October, 1942) B.S. Aeronautice, Massachusetts Institute of Technology; M.S. Aeronautics, California lnatitute of Technology, 1941.
*Resigned January 15, 1944.
ton leave.
$\$$ Resigned December 31, 1943.

Leslie P. Hardy, Director of Adult Education and Director of the Summer Session;
Assistant to the President (1934)
B.S.Ed., Kent State University; M.S.Ed., University of Akron, 1935.

George L. Hayes, Professor of Psychology (1921)
Ph.B., Obio University; A.M., Pb.D. 192I, Univerity of Pittbburgh.
William C. Henry, Instructor in Business Administration (1941) B.A., State Teachers College, Springfield, Missouri; M.B.A. Northwestern University, 1941.
$\dagger$ Thomas C. Hilliard, Associate Professor of Accounting (1935)
B.A. Nebraska State Teachers College; M.A., University of Nebraska, 1935; C.P.A. (Ohio) 1940.

Fred F. Householder, Professor of Physics and Chairman of the Division of Natural Science (1918) B.A., M.A. 1916, University of Wisconsin.

Paul O. Huss, Professor of Meteorology (January, 1941) (The Daniel Guggenheim Airship Institute) b.S.Ed., B.S.E., M.S.E., Sc.D. 1935, University oi Micbigan.

Donato Internoscia, Assistant Professor of Modern Languages (1938) B.A., Broadview College; M.A., Ph.D. 1938, Nortbwestern Univeraity.
**Pete W. Jacoby, Assistant Professor of Military Science and Tactics (December 1942) B.S., A. and M. College of Tesaa, 1940. Captain, Infantry, A.U.S.

Edgar P. Jones, Associate Professor of Biology (1932) B.S., M.S., Ph.D. 1932, University of Pitrsburgh.

Edward W. Jones, Assistant Professor of Geography (January, 1944) B.S., Western Reserve Univerity; M.A., Kent State Univeraity, 1940.

John Lewis Jones, Ainsworth Professor of Mathematics (February, 1920) Ph.B., Lafayette College; M.A., Ph.D. 1911, Yale University.
Vebcil L. Keck, Instructor in Physics (1942) B.A., Univeraity of Akron, 1931 .

Don A. Keister, Assistant Professor of English and Director of the Introductory Course in the Humanities (1931) B. A., M.A. 1933, University of Akron.

Clara M. Kemler, Associate Professor of Primary-Elementary Education (1928) B.A., M.A. 1926. Wittenberg College.

David King, Assistant Professor of Political Science (1927) B.A., Maryville College; M.A., University of Chicago, 1925.
*Steve P. Kossky, Instructor in Physical Education (June, 1943) B.S.Ed., University of Akron, June, 1943.

Walter C. Kraatz, Professor of Biology (1924)
B.A., University of Wisconsin; M.A., Ph.D. 1923, Ohio State University.

Michael M. Krino, Instructor in Physical Education (1942) B.S.Ed., University of Akron, 1938.

Emery L. Kuhnes, Professor of Education (1923) B.S. Upper Iowa University; Pd.M., Ph.D. 1915, New York University.

Lucille D. Lamkin, Assistant Professor of Physical Education (1943) B.S.Ed., M.A. 1934, Ohio State University.

Ebba Larson, Assistant Registrar (August, 1926) Attended the Univeraity of Akron.
Elizabeth A. Lathrop, Assistant Professor of Home Economics (1927) B.S., M.A. 1927, Columbia University.
$\dagger$ Warren W. Leigh, Professor of Commerce and Business Administration (1926) B.A., University of Utah; M.B.A., Ph.D. 1936, Northwestern University.

Miss Will Lipscombe, Associate Professor of Mathematics (1921) B.S., Florida College ; M.s.. Ohio State Univeraity, 1926.

Clarenz Lichtriitz, Special teacher of Piano (November, 1941) Bowling Green State University ; private instruction with Ernest White and Miss Rena Wills.
§Mabel Locke, Assistant Professor of Physical Education (1936) B.S.Ed.. Northwestern University; M.S., University of Wisconsin, 1936.
§Ben Harrison Locan, Jr., Assistant Professor of Military Science and Tactics (July, 1940) ; Plans and Training Officer B.A., University of Akron, 1939; Captain, Infantry, A.U.S.
${ }^{+0 n}$ Leave.
${ }^{\text {HTH }}$ Tranaferred to Arny Specialized Tralning Program.
Resigned 1944.
8Renigned September 3, 1943.
TTranaferred.

Samuel Selby, Associate Professor of Mathematics (1927)
A.B., A.M.,' University of Manitoba; Pb.D., University of Chicago, 1929.

Mrs. Lucy T. Self, Instructor in Secretarial Science (February, 1933) B.A., Ohio Westeyan University, 1920.

- Amy Louise Shaw, Instructor in Secretarial Science (1942)
B.S.Sec.Sci., University of Akron; M.C.S., Boston University, 1942.

Maurice O. Sharp, Special teacher of Flute (1941) B.M., Curtis Institute of Music: studied with Georges Barrere and William Kincaid. Affliated with the Cleveland Symphony Orchestra.
Roy V. Sherman, Professor of Political Science and Director of Introductory Course in Social Science (1929)
B.A., M.A., Ph.D. 1927, State University of Iowa.

Kenneth F. Sibila, Assistant Professor of Electrical Engineering (February, 1940) B.S.E.E., M.S.E.E. 1937, Case School of Applied Science.

Harry A. Smith, Associate Professor of Physical Education and Director of Introductory Course in Hygiene (1928) B.E., M.Ed. 1929, University of Akron.

Paul C. Smith, Associate Professor of Electrical Engineering (1925) B.S.E.E., Purdue University, I917.

Philip E. Snyder, Assistant Professor of Military Science and Tactics (June, 1942) B.S., Univerity of Akron, 1939. Captain, Infantry, A.U.S.

- Albert I. Spanton, Dean Emeritus of Buchtel College of Liberal Arts Ph.B., Buchtel College; M.A., Harvard University; Litt.D., University of Akron, 1938.
John F. Stein, Special teacher of Voice (1933) Private instruction with Herbert Witherspoon, Enrico Rosati, and Maria Kurenko.
William H. Sterbentz, Instructor in Aeronautical Engineering (December, 1943) B.S.Mech.Eng'g., Case School of Applied Science, 1943.

Frederick J. Stimler, Instructor in Physics and Aeronautical Engineering (October, 1943) B.Mech.Eng'g., University of Akron, September, 1943.

Ernest A. Tabler, Assistant Director of Adult Education, and Assistant Professor of Mathematics (1935) B.S., Kent State University; M.A., Western Reserve University, 1933.

Esther T. Taylor, Instructor in Home Economics (1943) B.S., Iowa State College; M.S., University of Chicago, 1937.

Audra Tenney, Assistant Professor of Secretarial Science (1926) B.A., University of Akron; M.A., New York University, 1936.

Mrs. Helen S. Thackaberry, Instructor in English (February, 1940) B.A., M.A. 1937, State University of Iowa.
$\|$ Robert E. Thackaberry, Assistant Professor of English (1938) B.A., M.A., Ph.D. 1937, State University of Iowa.

Theodor H. Troller, Director of Research at the Daniel Guggenheim Airship Institute and Professor of Aeronautical Engineering (January 31, 1931) D. Eng'g., Technical College of Aachen, Gerrany, 1923.
**Albert L. Tuttle, Professor of Military Science and Tactics (July, 1942) Stanford University; University of Puerto Kico. Lieutenant Colonel, Infantry, U.S.A.
Paul E. Twining, Assistant Professor of Psychology (November, 1941); Acting Adviser of Men, (April, 1943)
B.S., Ottawa University (Kansas) ; M.A., University of Kansae ; Ph.D, University of Chicago, 1938.

Clarence R. Upp, Associate Professor of Mechanical Engineering (1925) M.E., Ohio State University, 1910 .

Ulysses S. Vance, University Editor (1923) B.A., State Univerity of Iowa, 1923.

Sumner W. Vanica, Instructor in Bacteriology and Sanitation (October 25, 1943) B.A., University of Akron, 1935 .

Mrs. Dorothy S. Van Sickle, Special Instructor in the Music Department (1940) B.S.Ed. University of Akron, 1936.

- Entered Service in the WAVES.
- Entered Service in the

HEntered Military Service.
${ }^{*}{ }^{*}$ Retired April 24, 1944.

Donald S. Varian, Assistant Professor of Speech (1934) B.A., M.A. 1934, University of Wisconsin.

William Wheeler, Special teacher of Voice (1942)
B.A., Beloit College; B.A., Ithaca Conservatory of Music, 1902.

George Stafford Whitby, Professor of Rubber Chemistry and Director of Rubber Research (1942)
A.R.C.Sc., B.S., University of London; M.S.,Ph.D.,D.Sc. 1999, McCill University.

Mrs. Florence N. Whitney, Instructor in English (1936)
A.B., Dakota Wesleyan University; A.M., Columbia University, 1913.

Earl R. Wilson, Associate Professor of Engineering Drawing (1929) B.M.E., Ohio State University, 1916.

Isabella C. Wilson, Professor of Home Economics (1942) A.B., University of Hllinois; M.A., Ph.D. 1936, Teachers College, Columbia University.

Mary H. Wilson, Instructor in Home Economics (April, 1943) B.S. Iowa State College, 1932.

Mrs. B. Evanceline Witzeman, Special Instructor in Education (1942)
B.S. in Home Economics, M.S.Ed. 1931, University of Akron; Ph.D., Western Reserve University, 1940.

Flora E. Wolbach, Special Instructor in Microbiology for Nurses (October 25, 1943) Philadelphia General Hoapital of Nursing, I912; A.B. and Life Certificate, Colorado State College of Education, 1938; R.N. in Pennsylvania, Ohio. Indiana, Utah, and California.
/Alvin C. Wolfe, Instructor in Chemistry (October, 1942) A.B., M.S., Ph.D. 1941, Ohio State University.

Cary C. Wood, (Retired) Special part-time Professor of Philosophy and Psychology B.S., Ohio University; A.M., Columbia University; Ph.D., University of Ciacinnati, 1928.

〔Robert K. Workman, Assistant Custodian of Military Equipment (September, 1943) Sergeant on the R.O.t.C. staff.
Arthur M. Young, Professor of Latin and Greek, and Chairman of the Division of Humanities (1930) A.B., A.M., Ph.D. 1930, Haryard University.

## PART-TIME FACULTY AND ASSISTANTS (On a temporary basis)

Mrs. Ada Ridgeway Chapman, Instructor in Civil Air Regulations (April 1, 1943) Gulf Park College; University of Tulane.
Mrs. Evelyn Church, in the Library (October, 1943)
Seymour Epstein, in the Department of Physics (1943) B.M.E. College of the City of New York, 1943.

Clarence T. Gilham, in the Department of History (December 28, 1943) B.A., Univerity of Akron; M.A., Wettern Reserve University, 1940.

Raymond E. Graf, Instructor in Medical Aid
Oscar Himebaugh, Laboratory Supervisor in Chemistry for Nurses (June, 1943) B.S., Ohio Northern Univeraity; M.A., Ohio State University, 1927.

Phyllis Selby Justice, in the Library (1943)
\#A. Max Lancaster, in the Department of Physics (April, 1943) B.S., University of Akron, June, 1943.

Mrs. Anne Larson, in the Department of Physics (1943)
Huston F. Long, Instructor in Medical Aid
Mrs. Mary Miles, in the Department of Mathematics (February, 1944)
Mrs. W. C. Pothoff, in the Department of Physics (October, 19:3) A.B., University of Buffalo; M.A., University of Chicago, 1926.
H. A. Roseman, in the Department of Mathematics A.B., University of Akron, 1932.

Clayton W. Straw, in the Department of Physics (June, 1943) A.B., University of Akron, 1933.

GUY D. Swartzel, in the Department of Chemistry (August, 1943) A.B., Ottrbein College; M.A., Ohio State University, 1915.

Henry H. Wasser, in the Departments of English and History (October, 1943) B.A., M.A. 1940, Ohio State University.

Clarence Wilkinson, in the Department of Physics (1943)
/Entered Military Service. (U. S. Medical Corps).
ITranaferred.
\#Resigned.

## LIBRARY STAFF

Josephine A. Cushman, Libratian (August, 1919)
Ph.B., University of Akron; B.L.S., University of Illinois, 1919.
Genie J. Preston, Cataloger (1939)
B.A., Northwestern University; M.A., University of Illlinois, 1936.
*Mary Grace Harrington, Circulation Librarian (1933)
b.A., University of Akron; B.A.L.S., University of Michigan, 1939.

Dorothy Hamlen, Circulation and Reference Libraitian (February, 1936)
B.A., University of Akron; B.S.L.S., Western Reserve University, 1942.

Mary-Ann G. Andler, Order Librarian (1943)
B.S., Univerity of Wisconsin; B.L.S., Western Reserve University, (1939)

Nellie R. Rash, Circulation and Catalog Assistant (1943)
A.B.,B.S.L.S. 1943, Univeraity of Kentucky.

Ann Hamilton Foster, Circulation Assistant in charge of Reserve and Education Rooms (1941)
B.A., University of Akron, 1941.

Mrs. Esther G. Cope, Assistant at Main Circulation Desk (1944)
B.L.S., St. Louia Library School, 1915.

UNIVERSITY HEALTH SERVICE
(For civilian and military service)
Dr. Robert C. Beardsley
Dr. J. G. Lemmon
Dr. Walter Brown
Dr, Lawrence Vin Zant
Dr. Edson A. Freeman
Dr. Rex K. Whiteman
Mrs. Emma Henry, Nurse
Dr. W. E. Moore, Psychiatrist
Dr. Margaret Moore, University Physician

## RUBBER TECHNOLOGY INSTITUTE

 A.B., Cornell University.

TRAINING WITHIN INDUSTRY
IN CO-OPERATION WITH THE FEDERAL SECURITY AGENCY, MANPOWER COMMISSION

* Harvey B. Heiser, Area Co-ordinator in Northeastern Ohio (January 15, 1942)

Frank S. Hale, Cleveland Area Co-ordinator (March 7, 1944)
Edgar S. Taylor, Akron Area Co-ordinator (January 26, 1942)
PART-TIME INSTRUCTIONAL STAFF
(Not on the regular Day Session staff)
SUMMER SESSION - 1943
Activity School and Workshop Groups



| Ruth A. Mason $\qquad$ <br> B.S.Ed., University of Akron, 1940. |  |
| :---: | :---: |
| Paul B. Montgomery $\qquad$ Mathematics <br> B.C.E., University of Akron, 1941. |  |
| Pauline R. Matick. Accounting <br> Chief Clerk, A.C.\&Y.R.R. Company. |  |
| Robert M. Palmquist $\qquad$ Mathematics <br> B.A., M.A.Ed. 1941, University of Akron. |  |
| Thomas M. Powers. $\qquad$ Business Law <br> B.A., Cornell University; LL.B., Cleveland Law School. |  |
| Mary A. Pusateri $\qquad$ Spanish <br> B.A., B.S.Ed., M.A. 1938, Ohio State University. |  |
| Joseph Remenyi. $\qquad$ Modern Europe through Literature A.B., Pozsony, Hungary; A.M., Ph.D. 1936, Francis Joseph Royal University, Szeged, Hungary. |  |
| Mary Riblett $\qquad$ Art for the Grades <br> B.E., Cleveland School of Art. |  |
| William C. Richardson. $\qquad$ Aerodynamics <br> B.S., Parky Air College, Inc., East St. Louis, Illinois, 1936. |  |
| Virginia Sabo $\qquad$ Typewriting <br> B.S.Ed., University of Akron, 1943. |  |
| Anton G. Seifried $\qquad$ Industrial Electricity <br> E.E., University of Akron, 1931. |  |
| William W. Sherod $\qquad$ Engineering Drawing <br> B.S.Chem.Eng'g., University of Iowa, 1936. |  |
| Frank Simonetti. $\qquad$ Business Administration B.S.Bus.Adm., University of Akron; M.B.A., Boston University, 1941. |  |
| Lula H. Smith English <br> B.A., M.A.Ed. 1926, University of Akron. |  |
| James F. Snider. $\qquad$ Metallurgy <br> B.S.Chem.Eng'g., Purdue University, 1935. |  |
|  <br> B.A., Wittenberg College; M.A.Ed., University of Akron, 1937. |  |
| C. Leona Sterley. $\qquad$ Shorthand <br> B.S.Sec.Sci., University of Akron, 1936. |  |
| George W. Thompson $\qquad$ Race Relations Executive Secretary, Association of Colored Community Work. |  |
|  <br> B.A., Hiram College; M.A., University of Akron, 1929. |  |
| Lister O. Weiss. $\qquad$ Mathematics B.S., Wooster College; M.A., Columbia University, 1927. |  |
| Robert B. Wilson. $\qquad$ Seminar in Radio Writing and Production Manager of WADC Broadcasting Station. |  |
| Hazel L. Whight. $\qquad$ Shorthand <br> B.S.Ed., University of Akron, 1942. |  |
| RUBBER RESEARCH STAF |  |
| Dr. G. Stafford Whitby, Professor of Chemistry, Director |  |
| Seymour Kaplan, Assistant <br> B.A., Cornell University; M.S., Northwestern University, 1943. |  |
| Stephen Palinchak, Assistant (July, 1943) Ph.D., University of Cincinnati, 1940. |  |
| Dr. Dale Dreisbach, Assistant Professor of Chemistry, part-time |  |
| Joshua Stampfer, Part-time Assistant <br> B.S., University of Chicago; M.S., University of Akron, January, 1944. |  |
|  |  |

## AKRON PUBLIC SCHOOL OFFICERS AND TEACHERS co-operating with the college of education

Otis C. Hatton, M.A.
Superintendent of Schools A. J. Dillehay, B.Ed. Executive Director George F. Weber, M.A.Ed. Executive Director


TEACHERS IN SPICER DEMONSTRATION LABORATORY SCHOOL

| Anne M. Dobbins, B.Ed. | Jeanette Marsh, B.S.Ed. |
| :--- | :--- |
| Caroline French | Bessie Miller, B.S.Ed. |
| Sophia Gallets | Catherine Redinger |
| Emily R. Gibon, B.A., M.A.Ed. | Mary E. Redinger |
| Virginia Gillooly, B.E., B.A. | Eulalie Sauve |
| Grace Ion | Dorothy Schorle, B.S.Ed. |
| Rose Mary Kraus, B.E., M.A. | Fanie Walcott |
| Vesta Leight | Olga Zemlansky, B.E. |
| Lucille F. McConnell, B.S.Ed. |  |

## CRITIC TEACHERS

|  | Mrs. Bessie Miller, B.S.Ed.........-Spicer |
| :---: | :---: |
| atrude Ca | Mrs. Martha Miller...................East |
| ace Dean, | Margaret Oechsner, A.B....-......-Buchtel |
| Anne Dobbins, B.Ed. .-.---------....-Spice | Juliette Parenti, B.A., B.E......-Garfield |
| Caroline French .-..........---.........Spice | Mary A. Pusateri, A.B., M.A........South |
| Sophia Gallets ...-......................Spice | Mildren Rausch, B.A...--...-Portage Path |
| Emily R. Gibson, B.A., M.A.Ed.....Spice | Catherine Redinger .-.-.....--.......-Spicer |
| Virginia Gillooly, B.E., B.A.-.......Spicer |  |
| Belle Grensler ...................-.........Allen | Eulalie Sauve ...-.........................-Spicer |
| Lucile Gustafson, B.S., M.A..-...-Buch | Dorothy Schorle, B.S.Ed...-.........Spicer |
| Edith Harris ................................. South | rs. Elsa K. Shafer, B.E., M.Ed. |
| Nellie Hoffman, B.S.Ed. .-.........-Garfield | ent |
| may Horst, Ph.B., M.A.Ed...........West | Board of Education |
|  | len Sullivan, M.A.Ed...-- - - - - - East |
| a Кеск, В | Mrs. Mabel Van Camp........-Schumacher |
| ase Mary Khaus, B.E., M.A. ----Spicer | Myrtle S. Vandersali, B.S............West |
|  | Marie Wakefield, A.B.................-Central |
| Lucille McConnell, B.S.Ed.- |  |
| e Marsh, B.S.Ed. .-.-........-Spice | Mrs. Verna Wallace.....................Garfeld |

## OUTSIDE OF AKRON

L. D. Chandler .Cleveland, Ohio Mrs. Mary Jane Queen. Barberton Fern Swigart, B.S. Cuyahoga Falls
Alberta Thompson, b.S. ..Cuyahoga Falls
Mrs. Lucille Weisenborn, B.S.
Barberton

## COMMITTEES OF THE UNIVERSITY FACULTY

 1943. 1944EXECUTIVE<br>Simmons, Ayer, Bulger, Distad, Hardy, Twining, Weeks (Secretary)<br>COMMITTEE OF DEANS<br>Distad (Chairman), Bulger, Ayer<br>ADMISSIONS AND ADVANCED STANDING Schmidt, Bulger, Ayer, Distad, Hardy, Mrs. Keating<br>CLASSIFICATION<br>Buchtel College of Liberal Arts.........Registrar, Dean of Buchtel College of Liberal Arts, and Heads of Departments.<br>The College of Engineering____.......Registrar, Dean of the College of Engineering, and Heads of Departments.<br>The College of Education..................Registrar, Dean of the College of Education, and all members of the College of Education Faculty.<br>The General College_..........................Registrar, Keating, Twining, and Heads of Departments.<br>The Division of Adult Education.......Registrar, Director of Adult Education, Heads of Departments of all Colleges.<br>Graduate Study..............................Registrar, Dean of Graduate Study, and Heads of Departments of all Colleges.<br>\section*{LIBRARY}<br>Cushman, Ayer, Bulger, Distad.<br>UNIVERSITY TEACHING AND TESTING<br>Distad, McClure, Sherman, Hamilton, Selby, H. Foster<br>DISCIPLINE<br>Simmons, Bulger, Ayer, Distad; (Members ex officio: Keating, President of the Stadent Council, and President of the Women's League)<br>\section*{EXTRA-CURRICULAR ACTIVITIES}<br>Keating, Hardy, Gross, Boguslavgky, Vance, Rogers, Twining, Varian, President of the Student Council, President of the Women's League, President of the Evening Session Senate<br>\section*{ASSEMBLY}<br>Tenney (Chairman), Keating, Gross, H. Foster, Twining, Putiman, Varian<br>ADULT EDUCATION - ADVISORY<br>Hardy, Bulger, Ayer, Distad<br>STUDENT LOANS<br>Boggs, Keating. Twining<br>ASHTON PUBLIC SPEAKING CONTESTS<br>Varian, Alogdelis, Boggs, King<br>PIXLEY SCHOLARSHIPS<br>Schmidt, Bulger, Distad, Keating<br>WAR EFFORT<br>Hamilton, Ford, Distad, H. Foster, Henry, Duncan

## GENERAL INFORMATION

## 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 promsing 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 waschaxtered ty the Ohio Legislature in the same year as a College of ibert Arts and Letand first opened its doors for the admission of students in Septemper, 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 BUCHTEL COLLEGE




*Charles M. Knight, Sc.D. (ad interim)...-................................................................ 1896 -1897

*A. B. Church, D.D., LL.D. ..........................................................................................-1901-1912
*Parks R. Kolbe, Ph.D., LL.D. ......................................................................................-1913-1914
PRESIDENTS OF THE UNIVERSITY OF AKRON

-Deceased.

## ADMISSION TO THE UNIVERSITY

Students are admitted to the University by high school certificate and the Orientation 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. See under 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. Engineering students must present 149 semester hours ( 142 during the accelerated program) with the necessary qual. ity 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 may carry lighter 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 (student newspaper), The Tel-Buch (student yearbook), athletics for men and women, departmental clubs, sororities and fraternities. The program is facilitated by the Student Building lounge, cafeteria, dining room, and recreation rooms.

INTERCOLLEGIATE ATHLETICS
Intercollegiate sports are under the administration of a Faculty Committee appointed by the President. The football schedule for 1943 was cancelled; also the track program for 1944 was not carried out.

## 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 wholesome recreation and physical exercise. To attain this end the department makes an effort to have each student in the University enroll in one or more of the scheduled activities.

## ATHLETIC INJURIES

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

## STUDENT ACCIDENTS

The University of Akron assumes no responsibility for accidents to students which may occur incident to attendance at or participation in classroom, gymnasium, or laboratory work.

## 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 her office in Curtis Cottage one and one-half hours each day. 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. The Committee on Professional Training of the American Chemical Society has approved the work of the University of Akron in the field of Chemistry for the professional training of chemists. Curricula in Electrical Engineering and Mechanical Engineering (including options in Aeronautics and Industrial Engineering) are accredited by the Engineers' Council for Professional Development. 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.

## BUILLDINGS AND EQUIPMENT

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

Buildings on the campus include Buchtel Hall, in which are located the administration offices and nine 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 University Student Building, first occupied in 1939, was constructed by means of a loan and grant from the Public Works Administration. It contains dining room facilities, the book store and a little theatre with lighting equipment, carpenter shop and dressing rooms. Other space in the building is occupied by offices of student publications, meeting and game rooms, and lounge.

The Music Department is housed in a two-story building at 227 East Center Street. This building is leased by the University to provide adequate facilities for the work of the department. It contains two large rooms for orchestra, band, and choral groups on the first floor, and a number of small rooms on the second floor for offices, studios, and practice rooms.

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.
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. The intercollegiate contests in football are held at the Akron Rubber Bowl or the athletic field.

## 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 64,851 cataloged volumes, 24,123 pamphlets, and a considerable amount of other material (not counted) concerning the history of Buchtel College and the University of Akron, as well as 518 current periodicals, and 1,134 music recordings.

## 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 conveniently close to the testing equipment of the engineering laboratories.

## THE DANIEL GUGGENHEIM AIRSHIP INSTITUTE

The Guggenheim Foundation for the Promotion of Aeronautics, which was 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. These gifts were secured largely through the efforts of Dr. George F. Zook.

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. For further information concerning the equipment of the Institute, see the Engineering College section of this catalog.

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. Theodore Troller, now in charge of research. In April, 1943, Mr. Curtis C. Myers became director. 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.

At the June 7, 1940, meeting of the Board of Directors, the Daniel Guggenheim Airship Institute was made an integral part of the College of Engineering, and the staff of the Institute were given academic status as members of the Engineering College faculty.

## THE RUBBER TECHNOLOGY INSTITUTE

The University, believing it to be eminently fitting to have in Akron (often called the "rubber city" of the United States) a staff of research scientists and adequate facilities for the study of basic problems related to the rubber industry, and further realizing the need for instruction in the technology of rubber for groups of newly graduated chemists, physicists, and engineers who come each year from various parts of the country to enter the employ of the Akron rubber companies, created a Rubber Technology Institute in the fall of 1942. Through the support of three of the rubber companies, namely, the Goodyear Tire and Rubber Company, the Firestone Tire and Rubber Company, and the B. F. Goodrich Company, it became possible to inaugurate a course of lectures on rubber technology. These cover basic facts relating to the materials from which rubber goods are made, the manufacturing operations and the evaluation of important products. They are fully illustrated by specimens and lantern slides, and are open without charge to qualified employees of the supporting companies.

## FEES AND EXPENSES

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

## CLASSIFICATION OF CHARGES

Tuition is not charged to legal residents of Akron. Tuition charges for those not legal residents 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 for a student enrolled in day classes for a normal full time schedule of work of 16 hours each semester of the academic year.


Laboratory fees, deposits and books are additional and vary with the courses taken.

## TUITION FEES

Payable only by non-resident students in the day session:


Payable only by non-resident students in the evening session:
For less than 7 hours...........................................................................................
For 7 to 10 hours inclusive, per credit hour in excess of $6 \ldots-\ldots-\ldots-\ldots . . . . . . . . . . . . . . . . .20$
For 11 credit hours or more. 90
Summer Session, 12 week term, per credit hour-............................................................................... 6

## RULES GOVERNING TUITION

(Adopted March 14, 1941)
Legal residents of the City of Akron shall not be charged tuition in any College or Division of the University.

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

1. An unmarried person under 21 years of age living with parents who are legal residents of the City of Akron.
2. A person over 21 years of age who at the time of his enrolment is a legal resident of the City of Akron.
3. A husband living with his wife, or a wife living with her husband within the City of Akron when such husband and wife are legal residents of the City of Akron.

In every other case the responsibility of proving legal residence in the City of Akron shall rest with the person claiming exemption from tuition payment.

In order to be a legal resident within the purpose of these rules, a person shall be required to have resided continuously in the State of Ohio for at least one year and in the City of Akron thirty days immediately prior to registering in the University for any semester.

Any person enjoying the right of exemption from the payment of tuition shall forfeit that right upon abandoning the City of Akron as his legal residence but may regain the right upon reestablishing his legal residence in the City of Akron.

No person shall be considered to have gained or lost legal residence status by virtue of any act of himself, his parents, or his guardian, within any semester he or she is enrolled in the University.

In case a legal resident of the City of Akron is appointed guardian of the person of a minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the City of Akron until the expiration of one year after such appointment, but no
legal residence may be acquired by a minor for whom a legal guardian of the person is appointed solely for the purpose of avoiding the payment of tuition to the University of Akron.

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

## MUSIC

Two individual half-hour lessons per week, each semester, in Piano, Voice, Violin, Organ or Band Instruments...................................................................
One individual half-hour lesson per week, each semester, in Piano, Voice, Violin,
Organ or Band Instruments................................................................................... 30
Organ rental by special arrangement.
One individual half-hour lesson per week, each semester, in Accompanying............. 30

## 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
For 6 credit hours or more
35
Payable by all students in the evening session:
Registration fee, per semester.
An advance deposit of $\$ 5$ 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.

GRADUATION FEE
(Payable at time of application for degree)
Bachelor's degree $\$ 5$
Master's degree10

## 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....................................................................
Second semester, new entrants (including athletic and dramatic ticket)........ 5.00
Payable by all evening session students, per semeste . 50

## 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

## FEES FOR 1944 SUMMER SESSION TWELVE-WEEK TERM

Maintenance fee:
1 to 5 credit hours, per credit hour...................................................................................... 60
6 or more credit hours............................................................................................................................. 350



Late Fee ........................................................................................................................ 5


## SIX-WEEK TERMS

Maintenance fee:
1 to 4 credit hours, per credit hour-............................................................................................. 60

Student Activity Fee. 1.50


Non-resident students who have been enrolled for the first Six-week Term and who register for the second Six-week Term will be charged on the basis of the schedule of charges that apply to enrolment for the Twelve-week Term.

No Student Activity Fee or Student Building Fee is charged in any summer term for registrations in which all of the enrolment is in classes scheduled to meet in the evening.

## LATE REGISTRATION FEE

A fee of $\$ 5$ will be charged day students, and $\$ 1$ 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 $\$ 5$.

The dates on which this fee will first be payable each semester, 1944-45, are as follows:
First Semester
Monday, September 18, for Day, and September 25 for Evening Session.
Second Semester:
Monday, February 5 for Day and Evening Sessions.
1944 Summer Session:
Tuesday, June 13.

## MISCELLANEOUS FEES

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

After a student has been classified, a charge of $\$ 1$ 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 $\$ 2$ is charged for each two-year or three-year certificate.
A fee of $\$ 5$ is charged for each examination in college work not taken in course.
A fee of $\$ 25$ is charged for a Trade Major examination in the Department of Vocational Education.

All students graduating from the University are required to pay a graduation fee, payable at time of application for degree, $\$ 5$ for Bachelor's and $\$ 10$ for Master's degree.

All graduate students presenting a thesis for a Master's degree are required to pay a thesis fee of $\$ 10$ and the cost of the thesis binding, which is $\$ 1.50$ per copy.

A special fee of $\$ 5$ per credit hour is charged for Research Problems 436 (Psychology) in the 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 $\$ 6$ per credit hour.

For hours taken in excess of an 18 hour load, a fee of $\$ 6$ 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, physical fitness, debate and orchestra. This fee is not subject to refund.
${ }^{*}$ For houra in excess of a six-bour load, $\mathbf{s 6}$ per credit bour is cbarged, not anbject to refund.
After registration or
During 1st week
During 2nd week
During 3rd week
After 3rd week

SUMMER SESSION
Six-week Term
During lat week
During 2nd week
After 3rd week
$\$ 2.00$
$40 \%$ of term charge
$60 \%$ of term charge
Full amount of term charge

After registration or
During list week
During 2nd week
During 3rd week
During 4th week
During 5th week
After 5th week

$\$ 5.00$<br>$20 \%$ of term charge<br>$40 \%$ of term charge<br>$60 \%$ of term charge<br>$80 \%$ of term charge<br>Full amount of term charge

## REFUNDS TO STUDENTS CALLED FOR MILITARY SERVICE

The University will refund in full or abate all unpaid charges to students who withdraw from the University by reason of being accepted for service in the armed forces of the United States under the following conditions:
a. In event of call to military service under the Selective Service Act, refund or abatement will be made throughout each semester.
b. In respect to voluntary enlistment, refund or abatement will be made in full before three-fourths of the semester shall have elapsed.
c. The date of formal withdrawal from classes to enter military service shall be certified by the Dean or Director of the College or Division.
d. All applications for refunds or abatements must be supported by proper documentary evidence and submitted within the semester during which the student has been currently enrolled.

## 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:

| Humanities | Social Sciences | Natural Sciences |
| :--- | :--- | :--- |
| Art | Commerce | Biology |
| Latin and Greek | Econerics | Chemistry |
| Literature | Historics | 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 |
| Aeronautical 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 <br> Elementary |
| High School | Music | Vocational Education |

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.

[^0]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 $50 \%$-and it is desirable that he take not more than $75 \%$-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 bachelor's 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. In 1942, the first 12 -week session was held in order to enable students to complete their college work in a shorter time. See section on Summer Session.

## 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. Courses approved by the Engineering, Science and Management War Training Program of the federal government are given to qualified adults. A program of apprentice training for local industries, designed to parallel factory work with classroom training, is now in its seventh year of operation. For further information see section on Community Co-operation.

## ACCELERATED PROGRAM

The Summer Session of 1942 was the beginning of an accelerated wartime program of work at the University of Akron. By attending full time throughout the summer, for twelve weeks, it is possible for the student to complete the regular four-year course of study in three full years. The customary six-week term is retained for those who are unable to attend the longer session.

## 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 | llent ............................A |
| :---: | :---: |
| 85-92 inclusive |  |
| 77.84 inclusive |  |
| $70-76$ inclusive | .Poor ..................................-. ${ }^{\text {D }}$ |
| w 70 | \{Conditioned .........................E |
|  | Failed .................-................F |
| ncomplete |  |

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 REQUIREMENTS

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.

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, enroll 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 STUDENTS' PROGRAMS

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.

For Upper College students, all changes from one field of concentration to another shall be subject to the approval of the Dean.

Students in the General College will secure the permission at the Office 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, ex, cept 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 administrative officers of the General College 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 background in both oral and written English. 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 his 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 14 and September 9. A $\$ 5$ deposit, required at the time of registration, is applied on semester fees.

## ORIENTATION 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.

All entering freshmen are required to report Friday and Saturday, June 9 and 10, for the Summer Session, 1944; Tuesday January 30, 1945 at $10 \mathrm{a} . \mathrm{m} . ;$ Monday, September 11, 1944, and attend all sessions, Monday to Thursday, inclusive. Sessions of this program will occupy the time from $8 \mathrm{a} . \mathrm{m}$. to $4 \mathrm{p} . \mathrm{m}$. of the days specified.

## REGISTRATION DAYS

The registration days for students in the General College and Upper College (not including entering freshmen) are as follows:

First Semester, 1944-45, Friday and Saturday, September 15 and 16 , from 8 a. m. to 4 p. m.

Second Semester, 1944-45, Friday and Saturday, February 2 and 3 , from 8 a. m. to 4 p. m.

Summer Session, 1944, Friday and Saturday, June 9 and 10, from 8 a. m. to 4 p. m.

Summer Session, 1945, Friday and Saturday, June 8 and 9, from 8 a. m. to 4 p. m.

Evening Session students will register Friday and Saturday, September 22 and 23, from 1 p. m. to 9 p. m. on Friday and from 9 a. m. to $9 \mathrm{p} . \mathrm{m}$. on Saturday.

Summer Session, 1944, Monday, June 12, from 6 to 9 p. m.
After these dates, a late registration fee of $\$ 5$ will be charged to day students and a late fee of $\$ 1$ to evening 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
4. Introduction to the Humanities.

6 hours, first or second year
6 hours, first or second year
6. Mathematics, Accounting, or Foreign

Langauge
7. Military Science and Tactics (for men) $\square$ 8 hours, first or second year
(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 Gen. eral 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

For promotion to upper college standing, the student must complete the requirements in general education stated above, and, in addition, certain courses specified by the departments concerned. The departmental requirements, which are in addition to the general requirements, are listed in the following pages.

## BUCHTEL COLLEGE OF LIBERAL ARTS

Students who are planning to meet the requirements for promotion to upper college standing in the College of Liberal Arts should consult the list of studies laid down by the department concerned as prerequisite to promotion. It will be seen that some departments lay down specifications which should be taken in the freshman year. This is particularly to be noted in the case of the departments in the Natural Science Division and in commerce, home economics and secretarial science.

In other cases, the choice of a department for a major need not be made until the beginning of the sophomore year because of a smaller amount of prescribed work. It will also be noted that there are some departments which do not specify any requirement until the beginning of the third year in college. Those desiring to major in these departments would not need to make the decision until the beginning of the third year.
The Introduction to the Natural Sciences may be waived in whole or in part at the ditacretion of the proper academic offers in the case of certain science majors.

## THE HUMANITIES DIVISION

ART—Required: Appreciation of Art 29-30, Structural Art 21, Design 22, Industrial Design 43, Drawing and Rendering 45-46, Modeling 59-60. Recommended: Psychology 41-42, Sociology 41, Shakspere 41.

ENGLISH-Required: American Literature 47-48. Strongly Recommended: French, German, or Latin.

## LATIN AND GREEK--Required: Latin 43-44.

*MODERN LANGUAGES-Required: Modern foreign language, both years.
MUSIC-Required: Music Orientation 21, The Art of Music 22, Theory I, 41, Theory II, 42. Recommended: Psychology 41-42, Philosophy 55-56, Shakspere 41,

PSYCHOLOGY AND PHILOSOPHY-Required: Philosophy 55-56, Psychology 41-42. Recommended: Sociology 41-42, Literature, especially Shakspere 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; Shakspere 41, Making Modern English 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 Orientation 53, Consumer Economics 82. Foods and Nutrition majors take in addition Chemistry 23-24 and Chemistry 55-56.

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.

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.

SECRETARIAL SCIENCE-Required: Shorthand Theory 41-42, Typewriting 5152. Recommended: Accounting 21-22 or 41-42, Business Law 51, Basiness Administration 61, Economics 41-42, Secretarial Procedure 21, Filing and Machine Calculation 26.

[^1]
## 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, Calculus 45-46.

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

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

## THE COLLEGE OF ENGINEERING .

Students who are definitely planning on taking a course in engineering have a somewhat different group of subjects arranged for them. The full curriculum is listed in the engineering section of the catalog, and should be consulted by all students enrolled in engineering.

## THE COLLEGE OF EDUCATION

The curriculum plan for the first two years is given for those students desiring to go into the College of Education. It should be understood that this is suggestive and not rigid. Differences will occur, depending upon the teaching fields for which preparation is being made.

Freshman Year

| First Semester | Cr. Hre. | Second Semeater Cr | Cr. Hre. |
| :---: | :---: | :---: | :---: |
| Engli |  | En |  |
| Introduction to Social Science 5.... |  | Introduction to Social Science 6-... |  |
| Hygiene, Physical and Mental 17- |  | Hygiene, Physical and Mental 18.. |  |
| Elective $\qquad$ Military Training 11 (Men)..... | (11) | Elective Military Training 12 (Men).... |  |
|  | Sopho | Year |  |
| First Semester | Cr. Hrs. | Second Semeater Cr | Cr. Hr |
| Introduction to Humanities 7.-...... |  | Introduction to Humanities 8....... |  |
| Introduction to Natural Science 9 | 93 | Introduction to Natural Science 10 | 3 |
| General Psychology 41...---...... | 3 | Educational Psychology 52,........ | 3 |
| Introduction to Education 55........ |  | Fundamentals of Speech 76-...---- |  |
| Literature -- Mraining 43 (Men) |  | Literature --....................... |  |

Further information concerning the requirements for promotion to upper college standing in various divisions of the University may be obtained from the office of the Dean of Students, or from the deans of the several colleges.

## Courses Offered In The General College BUCHTEL COLLEGE OF LIBERAL ARTS

## Humanities Division

Cr. Hr .

Cr. Hre.

| Art |  | Modern Languages Cr. Hro. |
| :---: | :---: | :---: |
| *Structural Art $21 .$. |  |  |
| *Design 22 | 2 | French 43-44 |
| *Appreciation of Art 29-30 | 4 | *German 21-22 |
|  |  | *German 43.44 |
| *Drawing and Rendering 45 | 4 | ${ }^{*}$ Spanish $21-22$ |
| Still Life 47-48................. | 4 | Music |
| *Modeling 59-60 .-.------- | 4 | *Music Orientation 21. |
| Enclish |  | *The Art of Music 22. |
| *English | 3 | Theory II 42 |
| *English 2 | 3 | Voice Class 53-54 |
| Shakspere 41 | 3 | String Class 55-56. |
| The Making of Modern |  | Piano Class 51-52 |
| English 42 | 3 | Woodwind Class 57. |
| Short Story Writing 43-44. | 4 | Brass Class 58 |
| Appreciation of Prose 45-....... | 3 | Glee Club, Orchestra, Voice, |
| Appreciation of Poetry 46. | 3 | Instruments |
| Appreciation of Drama 50 | 3 | Philosophy |
| American Literature 47-48. | 6 | *Introduction to Phil. 55. |
| Essay Writing 63-64 | 4 | *The Field of Philosophy 56.. |
| News Writing 51-52 ................. | 6 | Speech |
| News Writing and Edit. 53........ | 2 | Speech 41 |
| History of Journalism 55............ | 2 | Speech 42 ...-.....-.......--....-.... 3 |
| Feature Writing $56 . . .$. | 2 |  |
| Editorial Writing 57 ................ | 2 | Bus. and Prof. Speak. 47-48 |
| Latin and Greek |  | SInterpretation |
| Latin 21-22 | 6 | Public Discussion 56 |
| *Latin 43-44 | 6 | Debate 57, 58, 59, 60........ 1 or 2 each |
| Greek 21-22 | 8 | Speech Improvement 65-66....... 2 |
| Classical Mythology 99. | 3 | Fundamentals of Speech 76....- |
| Social Science Division |  |  |
|  |  |  |  |
| *Economics |  | Sociology |
| Production, Prices and |  | $\dagger$ †Sociology for Nurses 21...........- |
| Income 41 | 3 | -Sociology 41 |
| Current Economic Problems 42 | 3 | *Social Attitudes 42 |
| Development of Economic |  | Social Anthropology 45. |
| Institutions 44 | 3 | Modern Social Problems 43... |
| $\underset{\text { Mistory }}{\text { Money and Banking 48....-....--- }}$ | 3 | Ноme Economics |
| History <br> American History 41-42 |  | *Textiles 21 ..- |
| European History 45-46. | 6 | Clothing 22 |
| litical Science |  | Elementary Foods and |
| American National Government |  | Nutrition 41-42 |
| 41 ...------.....- | 3 | *General Foods 45-46. |
| American State and Local |  | Home Economics |

Comparative Government 43.... 3
American Diplomacy 44.........- 3
*Required for majors.
Courses $47 \cdot 48$, are required of English Majors. They shoald be taken in the sophomore year, but may be taken in the junior year.
** Required for majors, 6 credits.
$\ddagger 3$ houre required for majors.
8Required of majore for graduation, but not for admiasion to the Upper College. +Especially for those taking the nurses training program.

## Social Science Division (Continued)

| Commerce | r. Hra . |  | Cr. Hrs. |
| :---: | :---: | :---: | :---: |
| *Accounting 21-22 | 6 | 8Secretarial Procedure 21. | 3 |
| $\dagger$ Accounting 41-42 | 6 | 8 Filing and Machine |  |
| 8 Analytical Accounting 43. | 3 | Calculation 26 | - 3 |
| Intermediate Accounting 44. | 3 | Business English 35 | 2 |
| $\dagger$ Business Law 51. | 3 | *Shorthand Theory 41-42 | . 6 |
| 8Economic Geography 54.... | 3 | *Typewriting $51-52$ <br> 8Secretarial Training 74 $\qquad$ | - 2 |
| * Business Administration 61. | 3 | Advanced Shorthand and |  |
| *Selling and Advertising 81 | 2 | Transcription 63-64 .... | 2 |
| Consumer Economics 82 ......... |  | Business Letters 93 ..............-. |  |

Natural Science Division
Cr. Hrs.
Brology
ttAnatomy and Physiology 31......
++Microbiology
5

* Botany $51-52$
*Zoology 61-62
Sanitation 71-72 $\qquad$ $\stackrel{8}{8}$ ........................

Chemistry
*Chemistry 21.22 .....................
SSInorganic Chemistry 23-24.......
$\dagger \dagger$ Chemistry 25
*Qualitative Analysis 43
*Organic Chemistry 4


SSOrganic Chemistry 55.


## THE COLLEGE OF ENGINEERING

(All required in one course or another)

|  | Cr. ${ }_{2}$ |  | Cr. Hri. |
| :---: | :---: | :---: | :---: |
| Industrial Pr | 2 | Surveyin |  |
| Surveying 21-22 | 2 | Engineering Geology 44 |  |
| Engineering Drawing 21-22 | 4 | Heat Power Engineering 46. | 3 |
| Descriptive Geometry 44 | 3 | Elements of Electrical Engineering |  |
| Shop Practice 49. | 2 | 58 | . 3 |
| Survey of Engineering 2 |  | Strength of Materials 46. | - 3 |
| Machine Drawing 23..............-- | . 2 | English 61-62 |  |

## THE COLLEGE OF EDUCATION

|  | Cr. Hre. |  | Cr. ${ }_{\text {Hru. }}$ |
| :---: | :---: | :---: | :---: |
| Physical Education 45-46................. | 6 | Business Psychology 62.........-......... | . 3 |
| General Psychology 41...-_-_-_-1.- | 3 | Story Telling 83-84. | - 6 |
| Applied Psychology 42. | 3 | Principles of Geography 71-...- ${ }_{\text {Geography }}$ of North America | . |
| Educational Psychology 52. | 3 | Geography of South America 73.... | . |
| Handicrafts in Elementary |  | Geography of Europe 74.................. | - |
|  | 2 | World Geography 75...-.......--..... |  |
| Introd. to Education 55...--......- | 3 | Children's Literature 86.........-. |  |

- Required for majors.

Required for majors.
$\pm$ Especially for Secretarial Science students.
8 Required of majors for graduation, but not for admision to the Upper College.
ff For studenta not majoring in chemistry, and especially for Home Eiconomice studenta specializing
in fooda and nutrition.
$H$ Especially for thooe taking the nurees training program.

## GENERAL INTRODUCTORY COURSES



## 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. A review of the principles of English usage, and instruction in taking notes and using the lihrary.
*17-18. 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 for personal and social adjustments. The third is to assist the student in his other school work. Two lectures a week, one discussion group, and two laboratory periods.

Students are required to enroll in one of the laboratory sections each semester. They may elect some of these beyond the two required, and those who major in Physical Education must take all of the sections in the first two years as a part of Physical Education 45-46. For laboratory sections refer to College of Education.

## 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 social science study.

## 7-8. Introduction to the Humanities. 3 credits each semester.

The chief aim of the course is to assist the beginning student to understand and appreciate the intellectual and cultural achivements and tendencies of his own civilization and of the past. Text, lecture, and discussion are combined to present a broad survey of western civilization.

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 are discussed. Illustrative material is drawn from the biological and physical sciences. The aims are: to encourage the use of 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.

[^2]
## 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 in college.

This curriculum may be modified in the case of students who have had commercial courses prior to entering the University.


## EMERGENCY ONE-YEAR STENOGRAPHIC PROGRAM

## (For High School Graduates)

A one-year program for college graduates is listed in the Secretarial Science section of the catalog.

In order to co-operate in meeting the emergency for stenographic and clerical workers who will be adequately trained even though lacking the broad education ordinarily associated with college, a 12 -month program has been planned which includes most of the vocational courses in the regular two-year program but excludes most of the academic.

Only persons with a broad high school education, including a good foundation in English, and a satisfactory record will be admitted.

This curriculum may be adjusted for those who have had related courses before entrance, or for those who graduate from high school in January.


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.

For nurses who plan to attend accredited schools of nursing, it is possible to arrange a combined course, and thus materially shorten the length of time necessary for the degree. For details of the plan consult the Registrar.

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

## PRE-PHYSICAL THERAPY

Admission requirements to schools of physical therapy are:
A-Graduation from accredited school of nursing or
B-Graduation from accredited school of physical education or
C-Two years of approved college training, including satisfactory courses in biology and other sciences. Courses in general physics and chemistry, as well as biology are highly recommended as preliminary training.
The following two-year program is acceptable to physical therapy schools which take students who have had two years of college work:

| First Semester FIRST | YEAR Second Semester |
| :---: | :---: |
| English 1 Cr. Hra. | English 2 Cr. ${ }_{3}$ |
|  |  |
|  | Social Science 6...-........................ 3 |
| Zoology 61 ...-...-----...-.................. 4 | Zoology 62 -...-...-....-....-....-...-..... 4 |
| Chemistry 21 ...--...-......--........-.... 4 | Chemistry 22 ...--------.................... 4 |
| 17 | 17 |

SECOND YEAR


A course to be offered in the Division of Adult Education on the junior college level. A suggested course of study not recommended toward a degree for those wishing to carry on recreational work in the community.

EDUCATIONAL RECREATION


## MILITARY SCIENCE AND TACTICS

## RESERVE OFFICERS' TRAINING CORPS

$\dagger$ lieutenant Colonel Albert L. Tuttle, Professor
*Major Paul G. Foster, Assistant Professor (Plans and Training Officer) *Captain Ben H. Logan, Jr., Assistant Professor (Plans and Training Officer) Captain Philip E. Snyder, Assistant Professor (Adjutant)
Second Lieutenant Ocie A. Cunningham, Assistant Professor (Publicity Officer) Technician 3rd Grade Richard J. Danaher (Chief Clerk)
*Sergeant Robert K. Workman (Assistant Military Property Custodian)
Technician 4th Grade James E. House (Administrative Assistant)
Private Ist Class Clifford J. Quinlan, (Assistant Military Property Custodian)
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. Until the end of the spring semester of $1942-43$, the instruction was divided into two parts: the basic course of the first two years, required of all freshman and sophomore men who were physically fit; and the advanced course of the last two years, elective for the men who had completed satisfactorily the basic course and the first two years of scholastic work, and who had been selected by the President of the University and the Professor of Military Science and Tactics. However, the War Department policy now has deemed it advisable to discontinue the advanced course until after the end of the present war.

## 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.

[^3]*Tranaforred doring the year.

The work is given five hours per week for the first two academic years. 2 hours of credit is given each semester.

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 $\$ 5$ is required, which is returned when the uniform is turned in.

Transfer students asking credit for previous military instruction will confer with the military department at the beginning of the semester to ascertain the amount of transfer credit to be given in military service.

| COURSE No. 11-12 |  |
| :---: | :---: |
| Infantry Drill | Infantry Drill |
| Military Discipline ...-.................. 3 |  |
| Articles of War and Military Law.... 5 | Defense-Mechanized Attack -.---.... ${ }^{4}$ |
|  | Tactics of Small Units...................... 20 |
|  | Night Operation .........--------3.-........ |
| Organization of the Army -----3-3.-. 4 |  |
| Military Sanitation and First Aid.... 11 | Mess Management |
| Interior Guard Duty-................- | Tactical Training and Combat |
| Care of Clothing and Tent Pitching 5 | Organization ............................... 34 |
| Safeguarding Military Information 1 | Associated Arms --- |
| Individual Security, Scouting and Patroling | Application of Military Law....-....-- |
|  |  |
| Defense-Air Attack ...-.................. 4 |  |
| Defense-Chemical Attack ...-........ |  |

## 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.
*In May, 1944, a fourth division was created, to be known as Applied Arta, and to include Art, Secretarial Science, Commerce, Home Economics, and Industrial Management and Occupational Therapy.

## 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, irrespective of the introductory courses in general education, each program must include:
a. At least 54 semester hours in the division. Only courses which count toward the B.A. degree may be included.
b. At least 18 hours and not more than 21 hours in each of two departments. No hours in excess of 21 in any one department will be accepted for credit unless the student meets requirements of such department for graduation.
c. At least 9 hours in each of two other departments, or 18 hours in one other department.
d. At least 24 hours of divisional courses on the upper college level.
e. At least 24 hours outside the division.

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 are required to pass a general final examination in the second semester of the senior year.

## AMERICAN CIVILIZATION MAJORS

Students majoring in American Civilization are under the direct supervision of the Dean of the College of Liberal Arts. Those who are considering this major are urged to consult with the Dean of Students as early as possible in the second year. Printed instructions describing the requirements of this field of study are available in the Dean's office.

## DEGREES

The following degrees are granted in the divisions:
The Humanities: B.A.; B.S. in Applied Art.
The Social Sciences: B.A.; B.S. in Business Administration; B.S. in Secretarial Science.

The Major in American Civilization: B.A.
The Natural Sciences: B.S. (However, at the discretion of the divisional chairman, students majoring in mathematics may be granted the B.A. 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:


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.

## The Humanities Division <br> 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 B.A.; B.S. in Applied Art.

## ART

## Professor Barnhardt, Assistant Professor Cable, Miss Riblett, Mr. Fayash

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; Still Life, 4 credits; Modeling, 4 credits, and the second year of a foreign language. Courses suggested but not required: Psychology 41-42, Sociology 41, Shakspere 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:


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

GENERAL COLLEGE
21. Structural Art. Either semester. 2 credits.

Basic principles of design and color theory, with adaptation to specific problems.
22. Design. Second semester. 2 credits.

Prerequisite, 21. Problems in commercial and advertising design, including suitable adaptation to textiles, wood, metal, and plastics.

29-30. Appreciation of Art. 2 credits each semester.
Discussion of basic principles of design and color theory and their adaptation to our surroundings and the articles which we use. The development of graphic art and design through the ages.
43. Industrial Design. First semester. 2 credits.

Prerequisite, 22. Geometrical construction, lettering, orthographic, isometric and cabinet projection, cartography and adaptation of design to present day demands.

## 45-46. Drawing and Rendering. 2 credits each semester.

Basic course for training the eye in freehand perspective, composition and representation of still life, figures and landscape through the use of various mediums.

47-48. Still Life. 2 credits each semester.
Prerequisite, 46. Oil paints and water colors are the mediums used for developing skill in handling these materials and in developing a fine feeling for color and composition.
59. Clay Modeling. First semester. 2 credits.

Prerequisite, 22. Modeling in the round and relief simple pottery shapes, tiles, masks, etc.
60. Modeling. Second semester. 2 credits.

Prerequisite, 59. Continuation of work in clay modeling, and carving and finishing of wood.

## UPPER COLLEGE

101. Occupational Therapy. 2 credits.

Prerequisite, 43. Simple crafts which may be adapted to work with handicapped persons, in recreational or educational institutions.
102. General Crafts. 2 credits.

Prerequisite, 101. More advanced work in general crafts with particular attention given to materials and their limitations.
104. Graphic Arts: Block Printing, Stencil, Provincetown Prints.

First semester. 2 credits.
Prerequisite, 46. 1945-1946.
105. Graphic Arts: Acid and Dry Point Etching, Screen Printing.

Second semester. 2 credits.
Prerequisite, 104. 1945-1946.
106-107. Weaving. 2 credits each semester.
Prerequisite, 43. Warping and threading of looms; plain and pattern weaving on different types of looms.
113. Classical and Medieval Art. First semester. 3 credits.

In co-operation with the Department of Latin and Greek. A survey of architecture, sculpture, painting and the minor arts as they developed in Pre-historic, Egyptian, Mesopotamian, Minoan, Greek, Roman, Byzantine, Romanesque and Gothic civilizations.

131-132. Commercial Art. 2 credits each semester.
A practical course in advertising art-layout, lettering, processes of reproduction, materials and mediums.

141-142. Advanced Commercial Art. 2 credits each semester.
Prerequisite, 132. A continuation of 131-132.
151-152. Costume. 3 credits each semester.
Prerequisite, 43. History of costume and its influence on dress of the present day. 1945-1946 and alternate years.

161-162. Costume. 2 credits each semester.
Prerequisite, 43. Evening session. See content 151-152.
171-172. Interion Decoration. 3 credits each semester.
Prerequisite, 43. History of traditional types of houses; house plans, elevations, and blue prints; study of interiors and furnishings. 1944-1945.

175-176. Figure Drawing. 2 credits each semester.
Prerequisite, 46. Study of anatomy, action and proportion of the human figure. Fee, $\$ 1.50$ each semester. 1944-1945 and alternate years.
179. Illustration. First semester. 2 credits.

Prerequisite, 176. Psychology of art for children of different ages; making of child's book, lettered, illustrated, and bound, 1945-1946 and alternate years.
180. Illustration. Second semester. 2 credits.

Prerequisite, 179. Techniques used in fashion, newspaper and other advertising. Story illustration. Making of adult's book, lettered, illustrated, and bound. 1945-1946 and alternate years.

181-182. Interior Decoration. 2 credits each semester.
Prerequisite, 43. Evening session. Same content as 171-172, with less laboratory work.
201. History of Art, Renaissance. First semester. 3 credits.

Prerequisite, 113. A survey of the arts in Italy, Spain, Flanders, Holland, Germany, and England with historical background.
202. History of Art, Modern. Second semester. 3 credits.

Prerequisite, 201. A survey of the arts of France and America. Study of conditions leading to modern movement and reactions of the present day.
211. Classical and Medieval Art. 2 credits.

Evening session. See 113 for content.
212. History of Art, Renaissance. 2 credits.

Evening session. See 201 for content.
213. History of Art, Modern. 2 credits.

Prerequisite, 212, Evening session. See 202 for content.

## ENGLISH

Professors Hamilton and Pease; Assistant Professors Vance (Journalism) Roberts, Keister, and Raw; Mrs. Putman, Mrs. Whitney, Mrs. Thacka-
berry, Mrs. Pahl, Mr. Campbell, Miss George, Miss Smith,
Mr. Wasser; Visiting Lecturers Remenyi and Hanford
Required Courses: Students majoring in English must take American Literature 47-48 in the General College; in the Upper College they must take twenty hours in the department, exclusive of courses in Journalism and including English Literature 109-110. English History and two years of French, German, or Latin are strongly recommended.

GENERAL COLLEGE
1-2. English, Oral and Written. 3 credits each semester.
Described in the General College section.
41. Shakspere. 3 credits.

A survey of Shakspere's career with the reading of fifteen plays.
42. The Making of Modern English. Second semester. 3 credits.

A study of modern English usage, with attention to historical backgrounds and the principles of descriptive grammar.
43-44. Short Story Writing. 2 credits each semester. 1945-46 and alternate years.
45. Appreciation of Prose. Either semester. 3 credits.
46. Appreciation of Poetry. Either semester. 3 credits.
50. Appreciation of the Drama. Either semesterr. 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 of the Nineteenth Century.
3 credits each semester.
The work of leading American writers is considered with reference to the social, political, and religious thought of the century.
63-64. Essay Writing. 2 credits each semester.
1944-45 and alternate years.
Training in the various types of expository writing.

## Journalism

51. Newf Writing. First semester. 3 credits.

The class meets two periods each week. The third credit is given for laboratory work on the student newspaper. Gathering and writing news stories is studied.
52. News Writing. Second semester. 3 credits.

A continuation of 51; may be taken either before or after it.

## 53. News Writing and Editing. First semester. 2 credits.

Evening session only. A comprehensive course covering all phases of newspaper work.
55. History of Journalism. First semester. 2 credits.

1944-45 and alternate years.
56. Feature Writing. Second semester. 2 credits.

This course, offered in both day and evening sessions, considers the writing of the magazine or special feature article.
57. Editorial Writing. First semester. 2 credits.

1945-46 and alternate years. Editorials are considered as a special type of essay.

## UPPER COLLEGE

102. Sixteenth Century Literature. Second semester. 3 credits.

A study of the non-dramatic literature of the Tudor period. 1945-46 and alternate years.
103. Seventeenth Century Literature. First semester. 3 credits.

A survey of important tendencies and achievements in English prose and poetry from Bacon to Dryden, exclusive of the drama. 1944-45 and alternate years.
104. Eighteenth Century Literature. Second semester. 3 credits.

A survey of the literature of the century with emphasis upon the work of Pope and Johnson. 1944-45 and alternate years.

105-106. Nineteenth Century Literature. 3 credits each semester.
In the first semester, a study of the English Romantic Movement; in the second, the Victorian period. Emphasis upon major writers. 1944-45 and alternate years.
109-110. English Literature. 3 credits each semester.
A survey of English literature from Anglo-Saxon to modern times. Lectures on English literary history; assigned readings in English masterpieces of all periods. Required of English majors. Open only to juniors and seniors. To be taken preferably in the senior year.
112. Modern European Literature. 2 credits.

A survey of literary tendencies in Europe since Ibsen. Assigned readings include novels, plays, poetry, and criticisms.

113-114. The English Bible as Literature. 3 credits each semester.
Extensive readings in the Bible with reference to literary values. First semester: the Old Testament, exclusive of the Wisdom Books. Second semester: the Wisdom Books and the New Testament.

119-120. American Literature. 3 credits each semester.
A course in the history of American thought with emphasis distributed among literary; political, social, and economic materials. First semester: Colonial period and period of early nationalism. Second semester: Nineteenth Century.

121-122. English Fiction: Development of the Novel. 3 credits each semester.

A study of the chief English novels from Richardson to the present time. 1945-46 and alternate years.
162. History of the English Language. Second semester. 3 credits.

A study of the development of the English language from the AngloSaxon period to the present. 1945-46 and alternate years.
201. Chaucer. First semester. 3 credits.

A study of Chaucer's language and a reading of his Canterbury Tales. 1945-46 and alternate years.
203-204. The Drama. 3 credits each semester.
First semester: origins of the English drama and the dramatic works of Shakspere contemporaries. Second semester: English drama from the death of Shakspere to the present time. 1944-45 and alternate years.
205-206. Anglo-Saxon. 3 credits each semester.
A study of the language and literature of the Anglo-Saxon period. The second semester is devoted to the study of Beowulf. 1945-46 and alternate years.

## 207. Middle English. 3 credits.

A study of the language and literature of the eleventh to the fifteenth centuries, exclusive of Chaucer.
209. SHAKSPERE Second semester. 3 credits.

An intensive study of three selected plays.
212. Milton. Second semester. 2 credits.

Emphasis upon Paradise Lost and Samson Agonistes. 1945-46 and alternate years.

231-232. Seminar. Either or both semesters, with a total of 2 credits.
Special studies, with instruction in the methods of literary research.
401. Research. 1 to 3 credits.

Writing of a thesis for the Master of Arts degree.
Journalism
153-154. Editing. 2 credits each semester.
Prerequisite, News Writing 51.52 or the equivalent. Copyreadying, headline writing, proofreading and makeup are studied.

## LATIN AND GREEK

Professor Young
Required Courses for majors: in the General College, Latin 43-44; in the Upper College, Latin and Greek Masterpieces, Classical Seminar.

Major: Twenty-four hours of Latin.
General Final Examination: Students majoring in this department are subject to a 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 enroll in Course 43; those presenting three units should consult the instructor.
21. Cicero: Letters. First semester. 3 credits.
22. Pliny: Letters and Nepos: Lives. Second semester. 3 credits.

Prerequisite 21, or high school equivalent.
43. Ovid: Metamorphoses. First semester. 3 credits.

Prerequisite, 22, or high school equivalent.
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.
Given on sufficient demand.
Advanced Greek will be given on sufficient demand.
99. Classical Mythology. Second semester. 3 credits.

A study of the legends of ancient Greece and Rome, and of their rebirth in the arts of succeeding ages down to modern times. 1945-46 and alternate years.

UPPER COLLEGE
Prerequisite to the following courses, 44, unless otherwise specified.
103. Plautus: Menaechmi, and Martial: Epigrams. First semester. 3 credits.
1943-44 in 4-year cycle.
104. Lucretius: De Rerum Natura, and Tacitus: Agricola. Second semester. 3 credits.
1941-1942 in 4-year cycle.
105. Horace: Odes. First semester. 3 credits.

1942-43 in 4-year cycle.
106. Vergil: Aeneid, and Juvenal: Satires. Second semester. 3 credits. 1942-43 in 4-year cycle.
107. Catullus, and Vergil: Georgics. First semester. 3 credits. 1941-42 in 4-year cycle.
108. Latin Epigraphy, and Suetonius: Lives of Caesars. Second semester. 3 credits. 1944 in 4 -year cycle.
109-110. Latin Prose Composition. 1 credit each semester.
Indispensable for prospective graduate students and candidates for teaching positions. 1944-45 and alternate years.
111. Selections from Medieval Latin, and Selections from Latin Novels. Second semester. 3 credits. Given when demand warrants.
112. Classical Seminar. Second semester. 1 credit.

A survey of the major contributions of classical culture to succeeding ages. Prerequisite, senior rank. Required for majors.
113. Classical and Medieval Art. 3 credits.

For time of offering and descriptive details, see offerings of Art Department.
114. Roman Private Life. 3 credits.

A historical study of the ancient Romans at home and abroad, at work and at play, their religion, thoughts about life and death, and their physical environment. No prerequisite.
149-150. Greek Masterpieces in English Translation. 2 credits each semester.
An intensive study of the significance, historical environment and tradition of a few great masterpieces of Greek literature. Required for majors. No prerequisite. 1944-45 and alternate years.
152. Latin Masterpieces in English Translation. Second semester. 3 credits.
An intensive study of the significance, historical environment and tradition of the great authors of Latin literature. No prerequisite. 1944-45 and alternate years. Required for majors.
231-232. Individual Reading. 1 to 3 credits each semester.
MODERN LANGUAGES
Professor Bulger, Associate Professor Reed,
Assistant Professor Internoscia, Mrs. Duncan, Miss Pusateri
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 <br> First year <br> †Third year | Full credit |
|  | Second year | Half credit |
| 3 units | First year | Full credit |
|  | Third year | Half credit |
| 4 units | Second year | No credit |
|  |  | Full credit |
|  |  | No credit |

## GENERAL COLLEGE

## 21-22. First Year French. 4 credits each semester.

Thorough drill in pronunciation and grammar; reading of short stories and simple plays.
43-44. Second Year French. 3 credits each semester.
Prerequisite, 21-22. Intermediate grammar and composition; 19th Century stories; biography of Mme. Curie; two plays of Moliere.
21-22. First Year German. 4 credits each semester.
Reading, speaking, and writing German.
43-44. Second Year German. 3 credits each semester.
Prerequisite, 21-22. Review of grammar; practice in reading, speaking, and writing German.
21-22. First Year Spanish. 4 credits each semester.
Pronunciation, dictation, elements of grammar, translation into English and into Spanish, and simple conversation. In the second semester comprehension and conversation are intensified and outside reading is begun.
43-44. Second Year Spanish. 3 credits each semester.
Prerequisite, 21-22. Review of grammar, gradually intensified reading, translation and conversation. Independent reading of one novel each semester. In the latter part of the second semester some attention is given to Spanish history and culture.
-Superior atudenti may enter the aecond year course.
$\dagger$ Superior atudente may enter the third year course.

## UPPER COLLEGE

101-102. Third Year French: The French Novel. 2 credits each semester.
Prerequisite, 44. The French Novel of the 19th Century. Resumés in
French.
103-104. French Composition. 1 credit each semester.
Prerequisite, 44. Advanced composition based on French texts.
105. French Phonetics. Second semester. 1 credit.

209 to 216. Advanced French. 3 credits each semester.
Prerequisite, 102 or 104,
One of the following French courses is given each year:
209-210. Nineteenth Century Drama.
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. Intensive reading of Spanish and Spanish-American stories, with class discussion in Spanish. Independent reading of several SpanishAmerican novels.
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. Study of representative Spanish authors and their contribution to literature. Class discussion in Spanish.
231-232. Individual Reading in French, German, or Spanish.
1 to 3 credits each semester.

## MUSIC

Professor Gross, Associate Professor Ende, Mr. Stein, Mr. Lightfritz Mr. Wheeler, Mr. Funkhouser, Mr. French, Mr. Campbell, Mrs. Van Sickle, Mr. McBride, Miss Wells
Departmental requirements for the B.A. degree with a major in music:

| ORETICAL MUSIC | credics Cr. Hrs. |
| :---: | :---: |
| Music Orientation 21 |  |
| The Art of Music 22 |  |
| Theory 1. 41 ..........- |  |
| Theory II, 42 |  |
| Upper College |  |
|  |  |
|  |  |
|  |  |
| Composition 111 $\qquad$ 2 <br> Conducting 112 2 |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Recital Techniques 110 _-_ 0 |  |
| MUSIC ORGANIZATIONS _-_-...-...... 4 credits |  |
| University Women's Chorus ............................ 1 |  |
|  |  |
|  |  |



CLASS INSTRUCTION-RECOMMENDED
 Voics Class 53.54 Woodwind Class $57 \ldots \ldots \ldots \ldots \ldots \ldots \ldots \ldots$ Brass Class 58

Additional Requirements for Majors in Music: (1) All music majors will be required to pass a general final examination in the Theory and History of Music in the second semester of the senior year, (2) Presentation of both Junior and Senior recitals is recommended.

Music Organizations: Enrolment in University Women's Chorus and University Civic Orchestra is open to all students of the University. Membership in the University Singers is by audition and appointment. Not more than 4 credits for music organizations can apply toward graduation.

Applied Music: Enrolment for credit in all Applied Music courses (individual and class instruction) is contingent upon enrolment in Music Orientation. This requirement may be waived upon examination. Those who desire special or advanced instruction should enroll for individual lessons where the instruction is adapted to meet the immediate individual needs. Those desiring more of an elementary or general knowledge of performance should enroll in the class instruction. Not more than 8 credits in individual instruction may apply toward graduation for Liberal Arts students. All registration in individual instruction requires the payment of additional fees. Two half-hour lessons a week ( 2 credits each semester), $\$ 60$. One half-hour lesson a week ( 1 credit each semester), $\$ 30$.

Theoretical Music: All Theory courses may be taken for credit in sequence.
Music Education: Courses in Music Education cannot be counted toward graduation in the Liberal Arts College.

## THEORETICAL MUSIC <br> GENERAL COLLEGE

## 21. Music Orientation. 2 credits.

A functional introduction to music embracing notation, terminology, scale construction, simple melodic dictation, and sight singing. Familiarity with the piano keyboard.
22. The Art of Music. 2 credits.

An introduction to the literature of music using recordings as illustrative material.
41. Theory I. 5 credits.

A detailed study of scales, intervals, triads and chord formations through ear, eye and keyboard.
42. Theory II. 5 credits.

A continuation of Theory I in the study of altered chords, ornamentations, and modulations.

## UPPER COLLEGE

101-102. History of Music. 2 credits each semester.
An historical resume of the development of music from ancient to modern times, emphasizing the major personalities and the styles in which they wrote.
103. Theory III. 3 credits.

Simple two and three-part modal and tonal counterpoint in the five species.
104. Theory IV. 3 credits.

An analytical study of the forms employed in music, covering both the homophonic and polyphonic devices.
110. Recital Techniques. No credit.

This course is devised to cover the entire area of public performance in both the vocal and instrumental fields. Discussion and readings will include the problem of program building, stage deportment such as entrances and exits, accepting applause and flowers, consideration of accompanist, language pronunciation, apparel, dignified publicity and all matters including presentation of musical organizations.
111. Composition. 2 credits.

Original creative work based on the simpler homophonic and polyphonic forms.
112. Conducting. 2 credits.

The technique and practice of conducting choral and instrumental scores.
114. Orchestration. 2 credits.

A study of the theory of instrumentation, reading and scoring, and the reduction of an orchestral score for the piano.
131-132. Dalcroze Eurythmics. 1 credit each semester.
The mental and physical acclimation to every conceivable rhythmic device, which is essential to anyone interested in music. This course is so conceived that it can be applicable to all of the various branches of music.
201. Research. 2 credits.

A study of special problems in the theory and in the history of music; open only to graduates and advanced undergraduates.

## GRADUATE COURSES

## 301-302. Aesthetics and Criticism. 2 credits each semester.

The first semester's work is a survey of the whole field of aesthetics with especial attention to music. Analogies and parallels between the composers and poets will be emphasized.

The second semester's work is a resumé of music criticism based upon philosophies of music history and the history of music in performance. Great critics, past and present. Styles and traditions and their contemporary evaluation.
303-304. The Philosophy of Music. 2 credits each semester.
This course includes the history of the cultures of the Christian or Western Civilization as it pertains to the major music personalities and the idioms in which they wrote. The arts and sciences are thus crystallized in such a fashion that the student evolves for himself a professional philosophy that facilitates his thinking as a music educator or academician. A comprehensive thesis consummates the year's work.

311-312. Seminar and Thesis. 2 credits each semester.
After the student has declared himself as to his major interest, which is to he the area in which his thesis is written, assignments and weekly verbal and written reports are made so that the major documents already existing in this expressed area will be covered.

Individual Instruction. 6 credits.
Every effort is made on the part of the Department of Music ta make all theoretical music functional by encouraging a perfection in some field of applied music. These skills will be confirmed by a recital of graduate level, unless the applicant for the degree is primarily interested only in the administrative side of music education. These six credits may be obtained in registration with any member of the Department of Music.

## PHILOSOPHY

## Professor Wood

Students may choose a combination of Philosophy and Psychology as a field of concentration.: Prerequisites in the General College are Philosophy 55-56, and Psychology 41-42.

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. Either semester. 3 credits.

Introduces the student to the spirit of reasoned inquiry.
56. The Field of Philosophy. Second semester. 3 credits. A survey of the occidental philosophy from its beginning to the present.

## UPPER COLLEGE

103. History of Philosophy. First semester. 3 credits.

Prerequisite, 55. 1944-45 and alternate years. This course considers Greek philosophy, the Middle Ages and modern philosophy.
104. Logic. Second semester. 3 credits.
$1944-45$ and alternate years. The training of students in the power of discriminating and constructive thinking.
105. Ethics. Second semester. 3 credits.

1943-44 and alternate years. This is a study of the ideals and standards of conduct, personal and public morality.
106. Philosophy of Religion. Second semester. 3 credits.
$1943-44$ and alternate years. An examination of religion in its relation to the whole life of man.

See College of Education for courses in Psychology.

## SPEECH

## Assigtant Professor Varian, Miss Alogdelis, Mr. Turner, Mr. Wilson

The courses in the Department of Speech are designed to provide education in the fundamentals of speech, including social adaptation and control, public address, and personal proficiency. Professional training is given, and students are prepared to become teachers in one or more of the following fields: public speaking, argumentation and debate, acting and dramatic production, interpretation, radio speaking, and speech correction. Since Upper College work in speech embraces these fields, 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.

Major: A minimum of 24 credit hours in speech. The following courses are required: $41,51,271,272,291,292,293$. Students are expected to take at least one course in each area of the speech field.

Suggested Electives: Interpretation 51 and any other General College speech courses, the basic courses in the social sciences and psychology, Shakspere 41, Appreciation of Drama 50, Structural Art 21, Art Appreciation 30, History of Music 102, and Roman Civilization 112.

The University Theatre: The University Theatre provides excellent facilities for training students in acting and dramatic production. At least three full length plays are staged each year.

Forensic Activities: The Department of Speech sponsors a University Debate Team and supervises an extensive program of intramural and intercollegiate debates.

The Speech Clinic: The clinic, which is free to all citizens of Akron, provides guidance and assistance in the diagnosis and treatment of all kinds of voice and speech disorders. Remedial treatment is offered to a limited number. Advanced students assist with the work of the clinic.

Radio Broadcasting Studio: Provisions have been made for a direct line from the University broadcasting studio to station WADC. Students may obtain practical experience in broadcasting from the University studio at least once every week. Training is provided in announcing, writing, and performing for the radio.

Speakers' Bureau: The Speech Department supervises a Speakers' Bureau for the convenience of the residents of Akron and for training of its students. Speakers, debaters, readers, and discussion panels are available to local groups. Occasionally a one-act play can be provided.

Ashton Public Speaking Contest: Several prizes are available each year to the winners of the public speaking contests and the interpretation contest. The contests are open to all students in the University.

Pixley Scholarships in Speech: See section on scholarships and prizes.

## GENERAL COLLEGE

## 41. Public Speaking. Either semester. 3 credits.

A beginning course designed to provide instruction in the essentials of effective public speaking.

## 42. Advanced Public Speaking. Either semester. 3 credits.

Prerequisite, 41. An advanced course for those who wish to develop skill in direct public address.

## 45-46. Oral Argument. 2 credits each semester.

A study of the theory of argument. Analysis of the logical processes in the speech situation. Practice in argument and discussion.

## 47. Business and Professional Speaking. Either semester. 2 credits.

An adaptation of the speech skills to business and professional life. Practice in conference, discussion, and types of speeches.
48. Advanced Business and Professional Speaking. Either semester. 2 credits.
Prerequisite, 47.
51. Interpretation. (Reading Aloud). First semester. 3 credits.

A basic course designed to provide experience in the oral interpretation of the printed page.
52. Advanced Interpretation. Second semester. 3 credits.

Prerequisite, 51. Further practice in reading aloud. Program building in reference to specific audiences and specific types of literature.
56. Public Discussion and Group Procedure. Second semester. 3 credits.

Prerequisite, permission. The technique of discussion in terms of the skills of the effective discussion leader and the effective discussion-participant. Practice in the various types of discussion.
57-58. Intercollegiate Debate. 1 or 2 credits each semester.
A study of the nature of argument in its application to a particular question which is debated among the universities and colleges each year. A group is selected to comprise the University Debate Team which fulfills intercollegiate engagements.

59-60. Intercollegiate Debate. 1 or 2 credits each semester.
65-66. Speech Improvement. 1 credit each semester.
For those students who need special help to improve their articulation and enunciation, voice quality, pitch, intensity, or rate.
76. Fundamentals of Speech. Either semester. 3 credits.

A course designed especially for majors in the College of Education. Effective speaking for the classroom teacher with emphasis upon organization, delivery, voice, and articulation.

## UPPER COLLEGE

114. Teaching of Speech. Either semester. 2 credits.

A course in teaching methods to improve the speech of the elementary and secondary school child. Not credited in the Liberal Arts College.
143. Forms of Public Address. Either semester. 3 credits.

Prerequisite, 42. A consideration of the psychology of persuasion, the style, and the type of speech as applied to direct public address.
144. Forms of Public Address. Second semester. 3 credits. Prerequisite, 143.
154. Voice Training. Either semester. 1 credit.

Specific training and practice for the advanced student intended to improve vocal conditions for all speech purposes.
161. Play Production. First semester. 3 credits.

An introductory course in play direction and stage design. The fundamentals of scenery construction, stage lighting, make-up, and theatre management. Fee, $\$ 2$.
162. Advanced Play Production. Second semester. 3 credits. Prerequisite, 161. Fee, $\$ 2$.

163-164. Acting. 3 credits each semester.
Prerequisite, 51. A detailed study of the actor's resources, stage practice, gesture, movement, timing and pointing of lines, sustaining emotional scenes, effective characterization, and styles in acting.
165-166. Speech Improvement (Advanced). 1 credit each semester.
Prerequisite, 65.66, or permission.
167. History of the Theatre. First semester. 3 credits.

A historical survey of modes and manners in the theatre from ancient times to the present day. Styles in acting, scene design, stage construction, stage lighting, and drama.
181. Radio Speaking. Either semester. 3 credits.

A study of the technique and the performance of radio broadcasting. Practice in microphone technique, announcing, reading and writing for the radio. Fee, $\$ 1$.
204. Speech Phonetics. Second semester. 2 credits.

271-272. Speech Correction. 2 credits each semester.
The classification, diagnosis, and treatment of speech defects. In the second semester special attention is given to case studies and clinical practice.
287. Seminar in Radio Writing and Production. 3 credits.

Practical experience in writing and adapting for the radio. Opportunity is provided for performance from the University stadio over one of the local stations. Fee, \$1.
291-292. History and Development of Speech. 2 credits each semester.
A comparative study of public speaking and oratory from primitive times to the present with emphasis upon particular speakers, outstanding speeches, and speaking techniques.
293. Speech Seminar. Second semester. 2 credits.
393. Research. Either semester. 1 to 3 credits.

## 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 B.A.; B.S. in Business Administration; and B.S. in Secretarial Science.

## COMMERCE

## Associate Phofessor McKee, Mr. Henry, Mr. Simonetti, Mr. Powers,

 Mr. Clarke, Mr. Bangham, Mrs. MatickThe department of commerce offers professional training to young men and women who plan to enter the fields of industry, trade, finance, 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 and even governmental organizations. 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

## Third Year

| Third Year |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Firot Semeter C |  | Cr. Hrr. |  | Second Semeater |  | Hrs. |
| Business Law 141 -..................... |  | 3 | Business | Law 142 |  |  |
| Marketing 183 .................................... |  | - 3 | $\dagger$ Productio | n Managemen | 162 or |  |
|  |  | - 3 | $\dagger$ Advertisin | ng $185 \ldots$ |  |  |
| \&Approved Elective --........................... |  | . 3 | Statistics 148 $\qquad$ <br> §Approved Elective $\qquad$ |  |  |  |
|  |  |  |  |  |  |  |

Majors in management and accounting must take Production Management; majors in finance and
Majors in management and accounting must take Production Management; majors in fnance and
marketing must take Advertiaing; majors in general buaines muat take Production Management and marketing m
The followi
The following courses are particularly recommended: Commercisl Art, Labor Problems, Publie Conance, Budines Mathematics, Government and Buainese, Business Paychology, and Bualness Corrempondence.


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


FINANCE

| Correes ${ }^{\text {cr }}$ | Cr. Hra . | Prerequidites |
| :---: | :---: | :---: |
| *Money and Banking 48 | 3 | Economics 41 |
| Economics 108 ............... | 3 | Business Finance 171 |
| Insurance and Security | 3 | Economics 41-48 |
| Ranking Practice and Management 176 | 3 | Money and Banking 48 |
| *Investments 172 -................................. | 3 | Money and Banking 48 Business Finance 171 |
| Security Markets $277 \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . ~$ | . 3 | ....Money and Banking 48 |
| oblems in Finance 279 ...................... | 3 | Money and Banking 48 Business Finance 171 |
| Seminar . | . 2 |  |

## ADVERTISING AND MARKETING

| Courses Cr. Hra. |  | Prerequisites |
| :---: | :---: | :---: |
| Commercial Art 131-132 ....................... |  |  |
| * Advertising 185 | 3 |  |
| Advanced Advertising 186 | 3 | ...........Advertising 185 |
| Retailing 192 | 3 |  |
| Problems in Marketing 293 | 3 | ............Marketing 183 |
| Sales Administration 291 | 3 | .-..........Marketing 183 |
| Market Analysis 296 ...-........................ | 3 | ............Marketing 293 |
| * Seminar | 2 |  |

MANAGEMENT

| Coursen 127 | Cr. Hrs. | Prerequisites |
| :---: | :---: | :---: |
| * Cost Accounting 127 .................. | 3 | ............ 9 hours of accounting |
| Personnel Administration IE-154 | 3 | Business Administration 61 |
| Industrial Production or Management |  |  |
| Problems IE-155 or 156 .... | 3 |  |
| Time or Motion Study IE-157-158 | 3 |  |
| Purchasing 189 ...................................... | 2 | ............Business Administration 61 |
| *Sales Administration 291 | 3 | ............Marketing 183 |
| * Seminar | 1 |  |
| *Personnel Management 164 ................... | 2 |  |

GENERAL BUSINESS


## GENERAL COLLEGE

## 21-22. Accounting. 3 credits each semester.

Recording of important transactions such as the acquisition of assets and their depreciation, incurring of expenses, purchases and sales; the balance sheet, statement of profit and loss, their construction and use. Required of all Commerce sophomores. 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. This course summarizes, develops and analyzes accounting procedure.
44. Intermediate Accounting. Second semester. 3 credits.

This is a continuation of 43 which is a prerequisite. Graded problems are used to illustrate the capital expenditures and depreciation policies, determination of cost for inventory valuations, installment accounts, etc.
51. Business Law. First semester. 3 credits.

Designed especially for students in secretarial science.
54. Economic Geography. Either semester. 3 credits.

Climate, land forms, soils, mineral resources, and vegetation and their influence upon economic activity. Required of all Commerce students.

## 61. Business Administration. First semester. 3 credits.

A survey course in which the business establishment is considered as a unified concern composed of various departments. Required of all Commerce sophomores.

[^4]81. Selling mexturyminc. First semester. 2 credits.

The fundamental basis of advertising media and the function of selling through ordinary advertising sources.
82. Consumer Economics. Second semester. 3 credits.

## UPPER COLLEGE

123. Budgeting. First semester. 3 credits.

Prerequisite, 43.
125. Engineering Accounting. 3 credits.
127. Cost Accounting. First semester. 3 credits.

Prerequisite, 44. General methods of collecting costs of materials, labor, and burden of incorporating them into the books of account.
228. Advanced Cost Accounting. Second semester. 3 credits.

Prerequisite, 127. 1943-44 and alternate years. Analysis and use of standard costs; estimated and uniform cost systems; installation and design of the cost system.
229. Auditing. First semester. 3 credits.

Prerequisite, 44. 1944-45 and alternate years. Preparation of accounts for an audit, examination of the books of account, the nature of audits, and the general method of audit procedure.
230. Accounting Systems. Second semester. 3 credits.

Prerequisite, 44. The design and use of accounting forms, the construction of the manual for a wholesale grocery, an automobile agency, and a club.
231-232. Advanced Accounting. 3 credits each semester.
Prerequisite, 44. First semester, partnership and receivership accounting; second semester, consolidation accounting.
233-234. Income Tax. 3 credits each semester.
Prerequisite, 44. Given in alternate years. Federal Income and Excess Profits taxes, Federal Capital Stock tax, Social Security taxes, the Ohio Intangible Property and Franchise taxes. First semester, individual taxes; second semester, corporate taxes.
236. Specialized Accounting Problems. Second semester. 3 credits.

Prerequisite, 44. A study of specific industrial and financial accounting, such as banks, building and loans, mines, clubs, hospitals, etc.
141-142. Business Law. 3 credits each semester.
Origin of commercial law, operation and discharge of contracts, law of sales, agency, and negotiable instruments, partnerships and corporations.
144. Law of Credit and Collections. Second semester. 2 credits.
146. Real Estate Law. Second semester. 2 credits.
147. General Statistics. First semester. 3 crędits.

Prerequisite, Economics 48. The scientific method applied to business and social problems. Use of surveys, accounting, analysis, and group tests, collection and use of statistical data. For Sociology and other Social Science majors.
148. Statistics. Either semester. 4 credits.

Prerequisite, 6 credits in Economics.
248. Advanced Statistics. Second semester. 3 credits.

Prerequisite, 148.
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.
158. Insurance and Security. Second semester. 3 credits.

Prerequisite, Economics 41 and 48.
162. Production Management. Second semester. 3 credits. Prerequisite, 61.
163-164. Personnel Management and Relations. 2 credits each semester.
Prerequisite, 61. Job analysis, selection and maintenance of a labor supply, placement and promotion, co-operation between employers and employees, and employee participation in management.
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.
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. Prerequisite, Economics 41 and 48. For description, see Economics offerings. Open to juniors.
185. Principles of Advertising. Either semester. 3 credits.
186. Advanced Advertising. Second semester. 3 credits. Prerequisite, 185.
189. Purchasing and Procurement. 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, 293, or equivalent.
297-298. Seminar. 1 credit each semester.
Required of all senior commerce majors.

## ECONOMICS

## Professor O'Hara, Associate Professor Ford

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. Either semester. 3 credits.

The principles of production, the pricing process or value theory, the distribution of income, and related topics.
42. Current Economic Problems. Either semester. 3 credits.

The problems of employment and wages, monetary and fiscal problems, foreign trade and exchanges, etc.
44. Development of Economic Institutions. 3 credits.

A study of medieval and modern economic history. The origins and growth of the significant institutions of modern economic life are traced. Offered as demanded.
48. Money and Banking. Second semester. 3 credits.

The development of money, credit and banking; the place of each in the modern economy.

## UPPER COLLEGE

106. Labor Problems. Second semester. 3 credits.

The position of labor in modern industrial society; problems of the wage system; trade unionism and labor law.
108. Public Finance. Second semester. 3 credits.

The facts, principles and theories of public expenditures, taxation, and debt.
112. Economics of War. Second semester. 2 credits.

The differences between peace and war economies; principles of priorities, price control and rationing; war finance and inflation, and its preventives.
141. Analytical Economics. First semester. 3 credits.

An advanced course in the principles of economics. Emphasis is placed upon the exercise of discrimination in the evaluation of theories and systems.
147. Statistics. Either semester. 3 or 4 credits.
151. Transportation. First semester. 3 credits.
168. International Economic Relations. Second semester. 3 credits.

An analysis of the theory of international trade and the foreign exchanges. Policies of free and controlled trade. Trade monopoly. International monetary problems. World economic planning.
171. Business Finance. First semester. 3 credits.

Prerequisite, 48.
183. Marketing. First semester. 3 credits.

Nature and significance of marketing; marketing structure and costs; marketing functions and policies.
(Courses 147, 151, 171 and 183 are given in the Commerce Department.)
204. Monetary and Banking Policy. Second semester. 3 credits.

Prerequisite, 48. The exercise of control over currency and credit; policies of control by central banks and governments, with special emphasis upon the U. S. Treasury and the Federal Reserve System.

## 210. Comparative Economics. Second semester. 3 credits.

A comparative study of the advantages and limitations of: Capitalism, Socialism, Communism, Fascism and Co-operation.

## 291. Economic Cycles. First semester. 2 credits.

Types of business fluctuation; methods of measurement and correction; comparative study of theories of the cycle and proposals for correction or elimination.
293. Development of Economic Thought. First semester. 3 credits.

The evolution of theory. Relation of the ideas of economists to the contemporary conditions of their times. Special emphasis upon the period from 1776 to 1890.

## 294. Contemporary Economic Thought and Policy. Second semester. 3 credits. <br> An extension of 293 but covering the period from Marshall to the present, with special emphasis upon Keynes and his school.

298. Seminar in Economics. Second semester. 2 credits.

Each senior major is required to select a field of intensive study and research, and to submit his results in a well-organized and documented report or thesis.

## HISTORY

## Professor Baldwin, Miss Caine, Mr. Gilham.

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.
A general course in American history beginning with the period of Exploration and Discovery and continuing through the Civil War.
42. American History Since the Civil War. Second semester. 3 credits.

A continuation of 41. The Reconstruction period following the Civil War to the present date.
45-46. Modern European History. 3 credits each semester.
Europe from the Protestant Reformation to the present. The course is divided at 1815. An introductory course.
49. Medieval History. Either semester. 3 credits.

The age of the beginning of West-European history. Some consideration is given to the inheritance from Judaeo-Christian and Classical civilizations.

## UPPER COLLEGE

## 111. Oriental and Greek Civilization. First semester. 3 credits.

A study of the development of Oriental and Greek civilizations, and especially of the significant developments of Greek political and historical thought, art and ideals.
112. Roman Civilization. Second semester. 3 credits.

A study of Roman experience, historical, political, and cultural, from the rise of Rome to early Christian times.
125. American Frontier. First semester. 3 credits.

1943-44 and alternate years. The development of successive frontiers in the United States and their influence upon the main stream of American history.
151-152. English History. 3 credits each semester.
1943-44 and alternate years. In the first half, the emphasis is on the development of the parliamentary constitution; in the second half, upon the growth of the British Empire. The course is divided at 1660 .
217. Early Medieval Civilization. First semester. 3 credits.

The development of ecclesiastical and feudal institutions.
218. Later Medieval Civilization. Second semester. 3 credits.

The rise of plural sovereignties and the birth of the lay spirit in the Fourteenth and Fifteenth centuries.
221. American Colonial History. First semester. 3 credits.

1944-45 and alternate years. An advanced course designed to give the student an intimate knowledge of the social, economic, and political life of the American colonies.
222. Foundations of American Nationality. Second semester. 3 credits. 1944-45 and alternate years. This course begins with the Peace of Paris, 1783. It covers the period of the Confederation, the Constitutional Convention, 1787, the problems of the early years of the republic, Jeffersonian and Jacksonian Democracy.
223. United States in the Later Nineteenth Century (1865-1900). First semester. 3 credits.
1943-44 and alternate years. A consideration of the social and economic forces which dominated American life in the post-Civil War period and their influence upon the political history of the nation.
224. Recent United States. Second semester. 3 credits.
$1943-44$ and alternate years. A detailed study of American history in the Twentieth century with emphasis on the period after 1918 and the New Deal.

## 241. French Revolution. First semester. 3 credits.

The rise and fall of Jacobinism; Reign of Terror and Democratic Empire.
242. Historiography and Historical Methodology. Second semester. 3 credits.
Extensive reading in the works of the great historians.
245. Europe. 1870-1919. First semester. 3 credits.

1944-45 and alternate years. The making of the First World War.
246. Recent Europe. Second semester. 3 credits.

The "Long Armistice" and the Second World War.
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 Wilson, Assistant Professor Lathrop,

 Miss Mary Wilson, Miss Taylor, Miss DavisonHome 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, dietitian, 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 economic subjects required in the Upper College for the respective majors:

## FOODS AND NUTRITION <br> Third Year

| First Semester | Cr. Hro . |  | Second Semeter |  | Cr. Hre. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Advanced Foods 115 | 3 | Advanced | Foods 116 or | Quantity |  |
| Nutrition in Health 119 | 3 | Cookery | 216 | Q............. | - 3 |
|  | Fourth | Nutrition Year | in Disease 120 |  | 3 |
| d Deve | 3 | Institution | al Management | 212 ........ | . 3 |



GENERAL COURSE

## Third Year



Household Equipment 215 3 Advanced Clothing 106 3
3 Advanced Clothing 105 $\qquad$ 3

## GENERAL COLLEGE

## 21. Textiles. First semester. 3 credits.

A study of the source, manufacture and characteristics of the textile fibers used in clothing and house furnishings, with special emphasis on the factors which determine the wearing quality, use and price of these fabrics.
22. Clothing Selection and Construction. Second semester. 3 credits.

The selection of individual wardrobes; social, economic and hygienic factors of clothing; care and repair of clothing. Two recitations and one three-hour laboratory.
41. Elementary Foods and Nutrition. Evening session. 3 credits.

This is a basic course in foods for those persons, not majors, who want a fundamental understanding of the preparation of foods for family use. One hour lecture, three hours laboratory. Fee, $\$ 6$.
42. Elementary Foods and Nutrition. Evening session. 3 credits.

This course covers the essentials of an adequate diet with emphasis on the selection of the right food in sufficient amounts to meet the requirements of the family group. Two hours lecture, two hours laboratory. For non-majors. Fee, $\$ 2$.
43. Foods and Nutrition. For student nurses. 3 credits.

This course combines the study of principles of food preparation with that of diet in normal nutrition. Two hours lecture, two hours laboratory.
45. General Foods. 3 credits.

A scientific study of food production, selection and preparation. Four hours laboratory, one hour lecture. Laboratory fee, $\$ 6$.
46. General Foods. Second semester.

Planning and serving meals on different cost levels; a scientific study of food preservation. One hour lecture, four hours laboratory. Prerequisite, 45. Fee, $\$ 6$.

## 53. Home Economics Orientation. First semester. 2 credits.

History and development of home economics in the field of women's education; study of the different fields of home economics.

## UPPER COLLEGE

105.106. Advanced Clothing. 3 credits each semester.

Study of commercial patterns; preparation of dress form; designing of costumes; restyling and repairing of clothing. Two recitations, three hours laboratory.
107-108. Advanced Textiles. 3 credits each semester.
A study of the construction, color and design of such materials as furs, laces, Oriental rugs, tapestries, brocades, India prints, etc. Fee, $\$ 2$ each semester.

115-116. Advanced Foods. 3 credits each semester.
Prerequisite, 45-46. A study of cookery of the nations with an opportunity to prepare and serve foreign foods. Food demonstrations are given.

The second semester is a study of experimental cookery. Individual and group experiments are made. Fee, $\$ 7.50$ each semester.
117. Historic Costume. First semester. 3 credits.

A study of costume from the time of the Egyptians to the present, with emphasis on the social, economic and religious factors influencing costume.
118. Selection of House Furnishings. Second semester. 3 credits.

A study of the art principles which are fundamental to the satisfactory selection and arrangement of house furnishings. Problems in the selection of linens, china, glass and silver will be considered.
119. Nutrition in Health. First semester. 3 credits.

Fundamental problems of nutrition based upon the nutritive requirements of man. Two hours lecture, two hours laboratory. Fee, $\$ 2$.
120. Nutrition in Disease. Second semester. 3 credits.

The use of diet in the prevention and treatment of diseases. Two hours lecture, two hours laboratory. Fee, \$2.
121. Field Work in Home Economics. 3 credits.

A course providing for additional laboratory or apprentice experience in a specialized field of home economics. Open to seniors.
122. Home Management. Second semester. 3 credits.

Consideration of the management of time, energy, and money in the home; purchase and use of equipment; modern housing problems. Fee, $\$ 1$.
125. Child Development. First semester. 3 credits.

A study of the physical, social, mental and emotional development of the child from infancy through adolescence. Two hours lecture, two hours laboratory. Fee, $\$ 2$.
151. Home Economics Education. First semester. 3 credits.

Organization of home economics in the secondary schools.
212. Institutional Management. Second semester. 3 credits.

A discussion course in the standards for good food service and the facts to be considered in food service; food purchasing, time, labor, materials, cost, equip. ment, and goodwill.
215. Household Equipment. First semester. 3 credits.

A lecture and laboratory course in the study, selection, care, and use of hand, gas, kerosene, and electric household equipment. Fee, $\$ 2$.
216. Quantity Cookery. Second semester. 3 credits.

A laboratory course in the preparation of all types of food, the care of equipment and utensils, the layout of different types of food preparation and service centers. Fee, $\$ 5$.

## POLITICAL SCIENCE

Phofessor Sherman, Assistant Professor King, Mr. Duncan
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.

A study of the Constitution, its distribution of powers, the President, the Congress, the courts and the great administrative organization in its contacts with the citizen.
42. American State and Local Government. Second semester. 3 credits.

A study of the forty-eight states and many county governments, with particular emphasis on Ohio government.
43. Comparative Government. Second semester. 3 credits.

Emphasis is placed on the government of England. Other governmental systems are compared with England and with each other.

## 44. American Diplomacy. First semester. 3 credits.

This course analyzes the machinery by which the United States conducts its foreign relations and the varying policies adopted toward different major areas of the world.

UPPER COLLEGE

## Courses Offered Each Year

103. Political Parties. First semester. 3 credits.

The development, organization, functions, and machinery of American political parties.
109. Government and Social Welfare. First semester. 3 credits.

A study of the part government has come to play in the social welfare field.
110. Government and Business. First semester. 3 credits.

The relationships of government with business in the nature of prohibitions, regulations, supervision, and assistance.

115-116. Political Theory. 2 credits each semester.
The first semester begins with the political thinking at the time of Plato and ends with the seventeenth century; the second semester continues to the present day with emphasis on American political thought.
205. Constitutional Law. First semester. 3 credits.

A study of the Constitution and the American system of government in terms of Supreme Court decisions.
211. International Relations. Second semester. 3 credits.

A study of the basic realities of nation-state relationships: power politics; the balancing of power; specific foreign policies; economic, cultural, and geographical factors which exert influence.

217-218. Field Work in Public Administration. 3 credits each semester.
Open only to senior majors with six hours of public administration. This course is for the student who desires a career in public service.
298. Seminar in Political Science. Second semester. 2 credits.

Required for senior majors. Seniors taking $217-218$ may be excused from seminar.

## Courses Offered 1944-45 and Alternate Years

101. Municipal Government. First semester. 3 credits.

The development, composition, and governmental organization of American city life.
102. Municipal Administration. Second semester. 3 credits.

The organization of city government for the performance of services to the public, such as police protection, supervised playgrounds, parks, etc.
206. Municipal Corporations. Second semester. 3 credits.

The American city from the legal point of view as established by the many court decisions.
212. International Law. Second semester. 3 credits.

A study of the established rules, practices, and conventions governing the relations of the several national states of the world and their citizens in their relationship with one another.

## Courses Offered 1945-46 and Alternate Years

108. Parliamentary Law and Legislative Procedure. Second semester. 2 credits.
A drill course in parliamentary procedure. About one-third of the course is devoted to modern legislative procedure.

## 207. Municipal Finance. Second semester. 2 credits.

Municipal budgets, purchasing of materials, sources of municipal revenue, and problems of real estate tax.

## 213-214. Public Administration. 3 credits each semester.

A study of the principles of administrative organization; of personnel recruitment; of sound budget organization and procedure; of public reporting and public relations.

## 220. Administrative Law. Second semester. 3 credits.

A study of the rights of a citizen before government agencies and the rights and duties of the public official; the customary procedures of government agencies and the legal recourse of both agency and citizen in accomplishing the objectives of each.

## SECRETARIAL SCIENCE

Professor Doutt, Associate Professor Flint, Assistant Professor Tenney, Mrs. Self, Mrs. Handwerk, Miss Mason, Miss Anna Mae Flint, Miss Wricet, Miss Johnson, Miss Berniece Flint, Miss Sterley, Miss Sabo
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 degree course which is essentially a combination of the technical work required in business and the broad cultural education needed for effective living. By proper planning, it is possible to complete the 4 -year curriculum in three years, including summer sessions. 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 ScienceEducation. 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. At least 60 semester hours must be in academic subjects. Graduates receive the degree of B.S. in Secretarial Science.

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 Semeater |  | Second Semestes |
| :---: | :---: | :---: |
| Shorthand Theory 41. | 3 | Shorthand Theory 42 ........... |
| Accounting 41 or 2 | 2 |  |




## ONE YEAR SECRETARIAL CERTIFICATE PROGRAM FOR COLLEGE GRADUATES

For young men and women who already have baccalaureate degrees, especially the A.B., the following program has been designed to supply the technical training and background needed for secretarial and office positions. A broad education is more important in many positions than is maximum skill.

| Summer Session |  |  |  |
| :---: | :---: | :---: | :---: |
| Shorthand 41-42 $\qquad$ 6 |  |  |  |
| Typewriting 51-52 $\qquad$ 4 |  |  |  |
| First Semester |  | Second Semester |  |
| Advanced Shorthand and Transcription 63 $\qquad$ | $\begin{gathered} \text { Cr. Hrs. } \\ \ldots-4 \end{gathered}$ | Advanced Shorthand and Transcription 64. | $\begin{gathered} \text { Cr. Hro. } \\ \ldots . \end{gathered}$ |
| Secretarial Procedure 21. | 3 | Filing and Machine Calcula- |  |
| Business Administration 61............... 3 tion 26................. |  |  |  |
| Accounting 41 (or 21 ) $\qquad$ <br> Business Correspondence 133 $\qquad$ 3 3 |  | Office Organization and Manage- |  |
|  |  | ment 296.............................. | 3 |
|  |  | Accounting 42 (or 22). | 3 |
|  |  | Secretarial Training 74. | .. 8 |

## GENERAL COLLEGE

## 21. Secretarial Procedure. Either semester. 3 credits.

The fundamental principles and procedures which relate to the secretarial position.
23. Secretarial Procedure. Either semester. 2 credits.

An adaptation of 21 for adults with office experience. Given in the evening only.

[^5]chould begia Shorthand and Typewriting ( 41 and 51) In the firnt year.
25. Machine and Slide Rule Calculation. Either semester. 1 credit.

Techniques of machine and slide rule calculation as applied to business. Credit is not allowed for this course and also for Filing Machine Calculation 26.
26. Filing and Machine Calculation. Either semester. 3 credits.

Thorough treatment of all basic filing systems. Fundamental operations of listing, key-type, and crank-driven adding and calculating machines. Fee, \$1.75.
31. Typewriting (Personal). Either semester. 2 credits.

A basic course intended primarily for those who can devote only one semester to this subject. Credit not allowed for this course and also for 51 . Fee, $\$ 1$.

## 35. Business Enclish. Either semester. 2 credits.

Fundamentals of English, with stress on areas in which business men have found college graduates to be weak.

## 41-42. Shorthand Theory. 3 credits each semester.

Open only to credit students. Gregg shorthand theory is completed, transcription introduced, and general dictation given between 60 and 80 words per minute.

## 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.
51.52. Typewriting. 2 credits each semester.

Fundamentals of typewriting, including drill, placement, letters, tabulations, preparation of reports, etc. Fee, \$1 each semester.

## 56. Typewriting Review. Second semester. 2 credits.

A thorough review of typewriting, covering one year's work. Credit not allowed for this course and also for $51-52$. Fee, $\$ 1$.

63-64. Advanced Shorthand and Transcription. 4 credits each semester.
Prerequisite, 42 and 52 or equivalent. Vocabulary building; general dictation on letters, articles, and speed takes ranging from 60 to 120 words per minute. Fee, \$1 each semester.

## 74. Secretarial Training. Either semester. 2 credits.

Prerequisite, 42 and 52, or equivalent. Advanced typewriting, transcription, business forms, duplicating processes, dictating and transcribing machines. Fee, \$1.50.

83-84. Intermediate Dictation. Evening session. 3 credits each semester.
Prerequisite, mastery of shorthand and typewriting theory. Vocabulary building, general dictation on letters, articles, and congressional record material. Speed from 60 to 100 words per minute. Fee, $\$ 1$ each semester.

## 85. Intermediate Dictation. Evening session. First semester. 3 credits. <br> Prerequisite, ability to take dictation at 100 words per minute and type $40-50$ words per minute. Vocabulary building, general dictation on letters and articles.

 Speed from 100 to 120 words per minute. Fee, $\$ 1$.93. Business Letters. Either semester. 2 credits.

Principles and practice in the writing of business letters.

## UPPER COLLEGE

## 133. Business Correspondence. Either semester. 3 credits.

Prerequisite, English 2. An advanced treatment of business letter writing, including extensive outside reading and reports. Credit not allowed for this course and also for 93.

163-164. Intermediate Dictation. 4 credits each semester.
Prerequisite, 42 and 52 , or equivalent. Vocabulary building; general dictation on letters, articles, and speed takes ranging from 60 to 120 words per minute. Fee, \$1 each semester.

165-166. Advanced Dictation. 4 credits each semester.
Prerequisite, 64 or 164 , or equivalent. Letters, articles, congressional record material, court cases, and lectures, with speed of dictation ranging from 100 to 160 words per minute. Fee, $\$ 1$ each semester.
186. Advanced Dictation. Evening session. Second semester. 3 credits.

Prerequisite, ability to take dictation for five minutes at 110 to 120 words per minute and type from 30 to 35 words per minute. Abbreviated vocabulary, dictation on letters and congressional record material. Speed from 110-130 words per minute. Fee, $\$ 1$.
187-188. Advanced Dictation. Evening session. 3 credits each semester.
Prerequisite, 186. Technical vocabulary dictation on letters and articles; court reporting and lectures with speed of dictation from 125 to 160 words per minute. Fee, $\$ 1$ each semester.
293. Office Practice. First semester. 3 credits.

Prerequisite, 26 and 164. Laboratory work on duplicating machines, calculating machines, transcribing and dictating machines, filing, long carriage machine and electric typewriter, and part-time office experience. Fee, $\$ 2.50$.
296. Office Organization and Management. Second semester. 3 credits.

Prerequisite, Commerce 61. A seminar with individual projects relating to analyses of various aspects of the office and to problems involved in office management.

## SOCIOLOGY

Professor DeGraff, Mr. Kruse, Miss Nolan, Mr. Thompson
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 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; Welfare Aspects of Social Security 209; 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, Department of Public Charities, Y.M.C.A., Y.W.C.A., the Boy Scouts, the Girl Scouts, War Chest, Federal Housing, Jewish Center, or Catholic Service League.

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, 206, 209, and 117 are planned to meet the needs of both University students and field workers in social agencies and institutions.

GENERAL COLLEGE

## 21. Soclology for Nurses. 2 credits.

This course treats of personal adjustment of nurse to patient; patient to nurse; and the nurse's relationship to the community.
41. Introduction to Sociology. First semester. 3 credits.

A study of the origin, development, structure, and function of social groups.
42. Social Attitudes. Second semester. 3 credits.

Prerequisite, 41. A study of the development of a person and personality, emphasizing the processes by which such are developed as a function of the social group.
43. Modern Social Problems. 3 credits.

A presentation of social problems from the sociological point of view.
45. Social Anthropology. 3 credits.

An elementary course dealing with the fundamental concepts of our cultural heritage.

## UPPER COLLEGE

Courses Offered Each Year
109-110. Seminar and Thesis. 2 credits each semester.
For seniors only. Required. A study of research techniques and a presentation of a paper before a group composed of students, faculty, and special guests.
111-112. Field Work. 3 credits for 150 hours of work at a recognized agency or institution. Seniors only. Two semesters recommended. Intended primarily for students interested in welfare or group work.
206. Community Organization. First semester. 3 credits.

A practical study of the social, religious, educational, relief, and character building agencies of a community. A required course.

251-252. Technique of Social Case Work. 2 credits each semester.
A study of practical techniques with emphasis upon case work interpretation and procedure.

> Courses Offered 1944-45 and Alternate Years
114. Criminolocy. Second semester. 3 credits.

A general background course for delinquency and penology. Cause, treatment, and prevention of crime.
117. Child Welfare. First semester. 3 credits.

A study of the relation and responsibility of the state and community to the child.

## 205. The Sociology of Leisure Time. First semester. 3 credits.

A study of the public, private, commercial, and industrial provisions for recreation and leisure time activities.
207. Social Theory. First semester. 2 credits.

A study and analysis of theoretical basis of modern social thoughts, institutions, and organizations. A required course.
208. Social Origins. Second semester. 2 credits.

A study and analysis of the origin of social institutions, organizations, and systems of social thought.
209. Welfare Aspects of Social Security. Second semester. 3 credits. An analysis of social security as interpreted by social and welfare agencies.
221. Theory of Social Work. First semester. 3 credits.

An interpretation of the historical and theoretical background of social work, techniques, and philosophy.

> Courses Offered 1945-46 and Alternate Years
104. Leadership. Second semester. 2 credits.

An interpretation of leaders and leadership with emphasis upon problems, techniques, and processes of the same.
113. Urban-Rural Sociology. First semester. 2 credits.

A comparison and analysis of urban and rural life with emphasis upon the person.
204. The Family. Second semester. 3 credits.

A presentation of the family as a group of interacting personalities.
210. Population Movements. Second semester. 3 credits.

Present movements of population as in-migration, refugee, prison, urban and rural, with their sociological implications.
213. The Juvenile Delinquent. First semester. 3 credits.

A study of the delinquent as a person. Emphasis upon causes, treatment and prevention.
217. Race Relations. Second semesier. 3 credits.

A study of minority groups with emphasis upon the sociological interpretation.

## 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 B.A. degree if much of their work is in the humanities or social sciences.)

## BIOLOGY

Professor Kraatz, Associate Professors Acquarone, Jones and Glick, Mrs. Robinson, Mr. Vanica, Miss Wolbach
Biology major students must secure 36 credits in the department; for some graduate schools more is essential.

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.

Upper College Courses may be: (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 problems, 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 in some cases 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

 the schedule because Biology 155, 256, 235, 236, and 142 are given in alternate years.

## PRE-TECHNICIANS' COURSE

The registry of Medical Technologists requires a year of hospital laboratory training preceded by a minimum of two years of college. The two-year schedule comprises: (1) Absolute requirements: biology, 8 semester credits; bacteriology, 3 semester credits; inorganic chemistry, 8 credits; quantitative analysis, 3 credits; (2) "Highly recommended" courses: physics, 8 credits; organic chemistry, 4 credits.

A three-year curriculum is arranged which includes: (1) the University required general college introductory courses; (2) the above minimum requirements, and (3) such other courses as are found in other pre-technician curricula and are deemed helpful by hospital technicians.

The student can complete four years with the B.S. degree by fulfilling the additional requirements of the biology major.

University courses included in the three-year curriculum are: English 1 and 2, 6 credits; Hygiene 15 and 16, 6 credits; Social Science 5 and 6, 6 credits; Humanities 7 and 8, 6 credits; Algebra 21, 3 credits; Chemistry 21 and 22, 8 credits; Chemistry 43, 5 credits; Chemistry 55 and 56, 8 credits; Physics 51 and 52, 8 credits; Zoology 61 and 62, 8 credits; Bacteriology 107 and 108, 8 credits; Histological Technique 154, 3 credits; Physiology 135 and 136 or 235 and 236,6 credits.

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

## 31. Anatomy and Physiology. 5 credits.

The anatomy of the human body and the functions or processes of all organ systems. Three lectures and two 2 -hour laboratory and demonstration periods a week. Required in the nurses' training curriculum.
33. Microbiology, 3 credits.

A survey of the bacteria and other micro-organisms in their relation to mankind. Two lectures and one 2 -hour laboratory period a week. Required in the nurses' training curriculum.

## 35. Nature Study. 3 credits.

Common plants and animals of this region, their life, habits and interrelations. Adapted to use of teachers of nature study. Some field trips will be made.
41-42. General Geology. 4 credits each semester.
Study of the earth, its materials, its surface features, and its changes during the ages. Three lectures and one 3-hour laboratory period a week. Lab. fee, $\$ 2.50$ each semester.

## 51-52. General Botany. 4 credits each semester.

The study of plants, their anatomy, physiology, and a survey of plant group and evolution in the plant kingdom. Required of biology majors. Two lectures and three 2 -hour laboratory periods a week. Lab. fee, $\$ 4$ each semester.

## 61-62. General Zoology. 4 credits each semester.

The study of animals, their general characteristics, and a survey of animal groups and an explanation of evolution and heredity. Required of biology and pre-medical majors. Two lectures and three 2 -hour laboratory periods a week. Lab. fee, $\$ 4$ each semester.

## 71-72. Sanitation. 3 credits each semester.

History and principles of sanitary science and practice, including municipal water, sewage, epidemic disease and other health problems. Three lectures a week.
82. Conservation of Natural Resources. Second semester. 3 credits. Survey of the principles and practice of conservation of mineral, plant and animal resources. Three class periods a week, 1944-45 and alternate years.

## UPPER COLLEGE

## 107-108. Bacteriology. 4 credits each semester.

Bacteria, their characteristics, growth and relations to man, and the rest of the organisms. Pathogenic bacteria are included. Required of pre-medical students. Two lecture hours and three 2-hour laboratory periods a week. Prerequisite, $61-62$, or $51-52$ or equivalent, and some knowledge of chemistry. Laboratory fee, $\$ 7.50$ each semester; breakage fee, $\$ 5$ each semester.
113-114. Field Botany. 3 credits each semester.
The classification and recognition of plants, principally seed plants of the region. Two lectures and three hours of laboratory a week. Course $51-52$ is desirable as background. 1944-45 and alternate years. Lab. fee, $\$ 4$ each semester.

## 215-216. Plant Physiology. 4 credits each semester.

Water, soil and mineral requirements of plants, and their metabolism, growth and response to stimuli. Two lectures and six hours of laboratory a week. Prerequisites, 51-52 and some knowledge of chemistry. 1943-44 and alternate years. Lab. fee, $\$ 6$ each semester.

## 217. Plant Anatomy. First semester. 4 credits.

Structure of cells, tissues and organs of land plants; relation of structure to utilization of plants. Two lectures and six hours of laboratory a week. Prerequisite, 51-52. 1944-45 and alternate years, Lab. fee, $\$ 4$.

## 135-136. Human Physiology. 3 credits each semester.

The physiology or functioning of the human body with special reference to all of metabolism and other fundamental processes. For biology majors, home economics and education students requiring a broad course in human physiology. Two lectures and one 3-hour laboratory period a week. General Zoology $61-62$ or equivalent desirable as background. $1943-44$ and alternate years. Lab. fee, $\$ 4$ each semester.

## 235-236. General Physiology. 3 credits each semester.

Physiology principles of the animal organisms. Required of pre-medical students. Prerequisites, 61-62, General and Organic Chemistry. Two lectures and one 3-hour laboratory period a week. $1944-45$ and alternate years. Lab. fee, $\$ 4$ each semester.

## 141. Invertebrate Zoology. First semester. 4 credits.

A study of all invertebrate groups, their classification and anatomy and life history of representative types. Two lectures and two 3-hour laboratory periods a week. 1944-45 and alternate years. Prerequisite, 61-62. Laboratory fee, \$4.
144. General Entomology. Second semester. 4 credits.

Insects, their nature, structure, life history, and economic importance. Insect orders with representative families and types. Two lectures and 6 hours of laboratory a week. 1944-45 and alternate years. Prerequisite, 61-62. Lab, fee, $\$ 4$.
146. General Genetics. First or second semester, 3 credits.

Study of the principles of heredity illustrated by plant and animal organims. Three class periods a week. $61-62$ or $51-52$ or equivalent desirable as background. 1943-44 and alternate years. Lab. fee, \$1.
148. Human Genetics. First or second semester. 2 credits.

Study of the principles of heredity as illustrated by the human species, and with attention to eugenics problems. Required of pre-medical majors. Prerequisite, 61-62, but for advanced sociology students without this prerequisite. 1944-45 and alternate years.

## 151. Organic Evolution. First semester. 3 credits.

History of the evolution concept; fields of evidence of evolution; trends of annual evolution through the ages. Three lectures a week. Prerequisite, 61-62. 1944-45 and alternate years.

## 154. Histological Technique. Second semester. 3 credits.

The methods of preparation of tissues for microscopical study. One class period and six hours of laboratory a week. Required in pre-technicians' course. Prerequisite, 61-62. Lab. fee, \$6.
155. Vertebrate Anatomy. First semester. 4 credits.

The vertebrate animals and a comparative study of all organ systems from fishes to mammals. Two lectures and two 3 -hour laboratory periods a week. Required of pre-medical majors. Prerequisite, 61-62. 1943-44 and alternate years. Lab. fee, $\$ 10$.
256. Embryology of Vertebrates. Second semester. 4 credits.

General early embryonic development of vertebrates and relatives, and, chiefly, the more detailed embryology of frog and chick. Two class periods and two 3-hour laboratory periods a week. Required of pre-medical majors. Prerequisite, 155. 1943-44 and alternate years. Lab. fee, $\$ 7.50$.
265. Biology Seminar. First semester. 3 credits.

Discussions and written reports on biological books and papers from current biological literature. One class period a week. Required of biology major seniors.
267-268. Biological Problems. $1 \cdot 3$ credits each semester.
Individual problem work of laboratory type. Open to seniors and, in exceptional cases, to juniors. Two continuous semesters are advisable. Lab. fee, \$2 per credit.
367-368. Research. 3 or more credits each semester.
Individual problem work of laboratory type, of more advanced nature, open to graduate students, and of such type as may include thesis work for the master's degree. Lab. fee, $\$ 2$ per credit.

## CHEMISTRY

Professors Schmidt and Whitby, Assistant Professors Dreisbach and Floutz, Mrs. Robinson, Mr. D'tanni, Mr. Himebauch, Mr. Swartzel, Mr. Lowdermilk
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 Trigonometery, 6 hours; Analytics and Calculus, 9 hours; Chemistry 21-22, 8 hours; Chemistry 43, 5 hours; Chemistry 44, 4 hours.

Fees: In addition to laboratory fees, a deposit of $\$ 5$ for breakage is required in each course.

## GENERAL COLLEGE

## 21-22. General Inorganic Chemistry. 4 credits each semester.

A study of the basic facts and principles of chemistry, the occurrence, preparation, and properties of the elements. Production and properties of the more important compounds with emphasis on inorganic chemistry. Laboratory experiments illustrate the principles studied. No credit is.given toward graduation for less than the full year's work. Lab. fee, $\$ 10$ a semester.
23-24. Inorganic Chemistry. 3 credits each semester.
Designed primarily for students in home economics. The course presents the fundamental laws and theories of chemistry together with a study of the more important elements and their compounds. $1944-45$ and alternate years. Lab. fee, $\$ 5$ a semester.

## 25. Chemistry for Nurses. 4 credits.

Planned especially for women taking nurses training course in hospitals. The course covers the necessary fundamentals in inorganic, organic and physiological chemistry.
43. Qualitative Analysis. First semester. 5 credits.

Prerequisite, 22. The classwork emphasizes the mathematical aspects of chemical equilibrium. The semimicro method is employed in the laboratory for separation and identification of ions. Lab. fee, $\$ 10$.

## 44. Elementary Organic Chemistry. Second semester. 4 credits.

Prerequisite, 22. A general survey of the field of organic chemistry with particular emphasis on fundamentals. Lab. fee, $\$ 10$.

## 55. Organic Chemistry. First semester. 4 credits.

Prerequisite, 24. A course designed especially for students in home economics whose needs are given especial attention. $1945-46$ and alternate years. Lab. fee, $\$ 10$. 56. Physiological Chemistry. Second semester. 4 credits.

Prerequisite, 55. Planned as a continuation of 55 for students in home economics. Particular attention is given to the chemistry involved in digestion, absorption, and metabolism. 1945-46 and alternate years. Lab. fee, $\$ 10$.

## UPPER COLLEGE

Third Year
Fourth Year

| Third Year |  | Fourth Year |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Cr. Hrs. |  | Advanced Physics 53 and elective ${ }_{\text {Cr. }} \mathrm{Hrar}_{8}$ |  |  |
| Introductory Physics 51-52 | 8 |  |  |  |
|  | - 4 | Physical Chemist | stry 213-214 ........... |  |
|  | . 4 | Special Topics 30 | 309 ...--...-............... | 3 |
| Quantitative Analysis 105-106 ........... | - 8 | German 43-44 | -.--.-.-.................... | 6 |
| Chemical Calculations 118 ....-........... | . 2 |  |  |  |
| German 21-22 ...................................... | . 8 |  |  |  |

105-106. Quantitative Analysis. 4 credits each semester.
Prerequisite, 43-44. The theory, laboratory technique and calculations of quantitative analysis. Acidimetry and alkalimetry, oxidation and reduction, volumetric precipitation, and gravimetric methods, systematic analysis. The theories and technique are applied to the analysis of common ores, minerals and alloys. Lab. fee, $\$ 10$ each semester.
107. Intermediate Organic Chemistry. First semester. 4 credits.

Prerequisite, 44. An intensive study of aliphatic and alicyclic compounds Lab. fee, $\$ 10$.
108. Advanced Organic Chemistry. Second semester. 4 credits.

Prerequisite, 107. A thorough study of aromatics, heterocyclics, and certain special topics as time permits. Lab. fee, $\$ 10$.
118. Chemical Calculations. Second semester. 2 credits.

Prerequisite, 43-44, 105.
131-132. Engineering Chemistry. See College of Engineering.
133-134. Metallurgy. See College of Engineering.
137-138. Metallurgy. See College of Enginering.
213-214. Physical Chemistry. 5 credits each semester.
Prerequisites, 106, 107, Physics 52, Math 46. The physical states of matter, thermodynamics, solutions, colloids, equilibrium, the phase rule, thermochemistry, chemical kinetics, electrochemistry, atomic and molecular structure, special topics, problems. Laboratory experiments carried on concurrently with the study of principles. Lab. fee, $\$ 8$ each semester.
227-228. Introduction to Rubber Chemistry. 2 credits each semester. Evening session. Prerequisite, 106-107. A study of crude rubber, latex, vulcanization, physical testing, compounding, accelerators, synthetic rubber, reclaimed rubber.
229. Polymers and Polymerization. 2 credits.

Prerequisites, 106, 108, and permission.
250. Industrial Chemistry. Second semester. 2 credits.

307-308. Organic Analysis, Qualitative or Quantitative. 2 credits each semester.
Prerequisite, 106 and 108. Lab. fee, $\$ 8$ each semester.
309. Special Topics in Organic Chemistry. First semester. 3 credits.

Prerequisite, 108.
313-314. Chemical Thermodynamics. 2 credits each semester.
Prerequisite, 214 and Calculus. The fundamental theories of thermodynamics and their applications in the chemical problems of equilibrium and stability form the basis of the course. Topics covered include laws of thermodynamics, free energy, entropy, partial molal quantities, ideal and non-ideal solutions, electromotive force, problems, sources of data.
321-322. Advanced Inorganic Preparations. 2 credits each semester. Prerequisites, 106, 214, Lab. fee, $\$ 8$ each semester.
325. Colloid Chemistry. Second semester. 2 credits.

Prerequisite, 106, 107. A study of the principles of colloid chemistry. Methods of preparation. A study of the properties and stability of colloids, dialysis, coagulation, aerosols, hydrosols, gels, emulsions, and foams. The emphasis on application.
326. Chemistry of Latex Technology. 2 credits.

327-328. Chemistry of Rubber Technology. 4 credits each semester. Prerequisites, 106. 107. Topics considered include those given under $227-228$ with additional material and laboratory requirements. Lab. fee, $\$ 15$ each semester.
329. Chemistry of Plastics. 2 credits.

Prerequisite, permission.
330. Chemistry of Plastics Laboratory. 1 credit.

Open only to students enrolled for 329. Lab. fee, $\$ 15$.
365-366. Research. 1-3 credits each semester.
Open to properly qualified students. Lab. fee is $\$ 5$ per credit.
Courses $313-314,321-322$, and 325 are offered only when the demand warrants.

## MATHEMATICS

Professor Jones, Associate Professors Bender, Selby and Lipscombe, Assistant Professor Tabler, Mr. Rogoff, Mr. Weiss, Mr. Palmquist, Mr. Montcomery, Miss Griffith, Mr. Epstein, Mrs. Miles
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, 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 203, 204, and at least two other courses not including 213, 214.

## GENERAL COLLEGE

## 19. Algebra. Either semester. 2 credits.

Open only to students who have had one year or less of high school algebra, or to persons who have been out of school for some time. May not be substituted for Algebra 21.
21. College Algebra. Either semester. 3 credits.

A review of algebra through quadratics, and a study of progressions, variation, binomial theorem, theory of equations, permutations, combinations.

## 22. Trigonometry. Either semester. 3 credits.

Prerequisite, High School Algebra. Solution of triangles, formulas for half angle, double angle, and sum and difference of angles for use in the Calculus.

## 23. Spherical Trigonometry. Either semester. 2 credits.

Prerequisite, 22. Study of right and oblique spherical triangles, and numerous applications to aviation and astronomy.

## 31. Mathematics of Navigation and Aviation. First semester. 2 credits.

 Prerequisite, 22. Solution of problems in navigation and aviation which require the use of mathematics; study of maps, charts, tables, and use of computers.43. Analytic Geometry. First semester. 3 credits.

Prerequisite, 21, 22. This course shows how geometrical properties of curves and surfaces may be studied by the aid of algebra and coordinates of different kinds.
45. Differential Calculus. First semester. 3 credits.

Prerequisite, 43 or concurrently with 43 . The rates of change of variable quantities with respect to the variables; development of formulas and application to practical problems; maxima and minima, time rates, curvature, etc.

## 46. Integral Calculus. Second semester. 3 credits.

Prerequisite, 45. Integration, definite integral; reduction methods of integration; methods of approximation; applications to areas, volumes, moments of inertia, center of pressure.
58. Business Mathematics. Second semester. 3 credits.

Prerequisite, 21. Simple and compound interest, annuities, stocks and bond evaluation, depreciation, building and loan associations.

## UPPER COLLEGE

Courses 104, 121, 125, 126, 201 and 202 are offered only when the demand warrants.
104. History of Mathematics. Second semester. 3 credits.

Prerequisites, 19 or 21, 22. The origin and development of the elementary mathematical ideas and processes.
121. Mathematics of Insurance. First semester. 3 credits.

Prerequisites, 21, 58. This course develops formulas for finding the premiums of the most important policies of life insurance, the valuation of these policies, the construction and use of the mortality tables.
125-126. Astronomy. 2 credits each semester.
Prerequisites, 19 or 21, 22. A study of the most important of the celestial phenomena and the instruments by which this study is accomplished. Given 1944-45 and alternate years.

### 201.202 Advanced Calculus. 2 credits each semester.

Prerequisite, 46. Partial differentiation, multiple integrals, line and surface integrals, maxima and minima of functions of several variables, with applications to geometry and mechanics. 1945-46 and alternate years.
203-204. Differential Equations. 2 credits each semester.
Prerequisite, 46. A study of the most important ordinary and partial differential equations, and their numerous applications in the fields of science.
205. Theory of Equations. First semester. 3 credits.

Prerequisite, 45. Determinants, solution of linear systems of equations, primitive roots of unity, methods of solving higher degree equations by Newton and Homer, theorems of Descartes.

## 206. Higher Geometry. Second semester. 3 credits.

Prerequisite, 45. A continuation of 43 ; uses the methods of calculus and of projective geometry to study the properties of curves and surfaces. 1944-45 and alternate years.

## 207. Higher Algebra. First semester. 3 credits.

Prerequisite, 45. The multinominal theorem, series, partial fractions, undetermined coefficients, inequalities, choice and chance.

## 213-214. Advanced Engineering Mathematics. 1 credit each semester. <br> Prerequisite, 46. Vector methods, approximation methods, differential

 equations, with applications to problems of engineering.
## PHYSICS

Professor Householder, Associate Professor Fouts, Mr. Keck, Mr. Straw, Mrs. Potthoff

Students who desire to elect physics as their field of concentration should elect at least seven 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 foreign language. Students who plan to continue their academic training in the graduate school should elect 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 foreign language. A total of 30 hours of physics together with chemistry 21,22 , and the calculus, are required. The major in physics should also include the chemistry courses in qualitative analysis and elementary organic analysis. Where possible, they will be required. No student may be admitted unconditionally into the Upper Division, who has not satisfied all of the requirements of the General College.

## GENERAL COLLEGE

## 21-22. Mechanics. 4 credits each semester.

A first course in measurements and mechanics. A thorough study of forces and torques, and their effects. The conditions under which equilibrium can be obtained and their application to simple machines and elementary frameworks constitute the most of the first semester's work. This is followed by a study of the effects of forces and torques on motion, kinetics in general, elasticity, hydrostatics, hydraulics and pneumatics. The course is fundamentally a laboratory course, but the essential principles of analytical and graphical analysis and laboratory technique must be mastered in order to continue with the succeeding courses. This course is required of all students who plan to take engineering or major in physics. Students taking this course must have completed the freshman mathematics courses or take them concurrently. Lab. fee, $\$ 4$ per semester.

## 43-44. Heat, Electricity and Magnetism, and Sound. 4 credits each semester. <br> A continuation of $21-22$, but with more recitation work and less labora-

 tory work. The study of heat and its effects and the fundamental principles of heat engines constitute the most of the first semester's work. This is followed by the study of electricity and the principles underlying D.C. and A.C. machinery. The study of sound and the elements of acoustical engineering complete the year's work. Students in this course will have need of the calculus. Three recitations and one laboratory period per week. Lab. fee, $\$ 2$ per semester.
## 51-52. General Physics. 4 credits each semester.

An introductory lecture course planned to give a general survey of the mechanics, sound, heat electricity and magnetism. No mathematics beyond that taken in the high school is required. While the course does not presume to prepare the student for work in applied physics, it is sufficient for the general arts student and for pre-medical students. Three lectures and one laboratory period per week. Lab. fee, $\$ 2$ per semester.

## 53. Optics. 4 credits.

Optics is that branch of physics which is concerned with the phenomena of radiation but the major part of this course is concerned with visible light. The principles of geometrical optics and their applications in optical instruments and optical measurements absorb about three-fourths of the semester. The elementary principles of physical optics complete the course. Students will need sophomore mathematics, and physics 52 or 44 . Three lectures and one laboratory period per week. Lab. fee, \$2.

## UPPER COLLEGE

## 203. Electricity and Magnetism. 4 credits.

A second course in electricity and magnetism with emphasis on the theory and use of electrical measuring instruments. Since the course covers the field of alternating currents and the rigorous treatment direct current phenomena, the calculus and physics 52 or 44 are prerequisites. Three recitations and one laboratory period per week. Laboratory fee, $\$ 2$.

## 204. Introduction to Аtomic Physics. 3 credits.

A review of the revolutionary discoveries in physics made since 1890 and the part they have had in establishing the electrical nature of matter. The structure of the atom, the transmutation of matter, and an elementary introduction to the quantum mechanics complete the course. Prerequisites, calculus and optics. Three lectures per week.

## 205. Mechanics and Heat. 3 credits.

An intermediate course in mechanics and heat with special emphasis on the theory of elasticity and heat engines. Prerequisites, calculus and physics 52 or 43. Three lectures per week.

209-210. Physics Measurements. 2 credits each semester.
A laboratory course in advanced physics measurements involving advanced laboratory technics. Some of the more advanced classical experiments will be repeated and certain experimental projects growing out of physics 204 and 205. A thesis course. Lab. fee, $\$ 4$ each semester.
221-222. Colloquium. I credit each semester.

## GRADUATE COURSES

## 302. Theoretical Mechanics. 3 credits.

An advanced course in theoretical mechanics based primarily on the vector notation and vector methods. Three lectures per week.
304. Electric Currents Through Gases. 4 credits.

The theory and practice of electric currents in gases and vacuum tubes. The relation of current intensity to gaseous pressure and the characteristics of the more important vacuum tube circuits. A foundation course for future work in electronics. Two lectures and two laboratory periods per week. Lab. fee, \$4.
306. Physical Optics. 3 credits.

An advanced course in the physical theory of light including the development of the wave theory and the wave mechanics. The elements of spectroscopy and spectroscopic analysis will be emphasized. Three lectures per week. Lab. fee, $\$ 2$.

## 307. Electrodynamics. 3 credits.

The mathematical theory of the electric field based on Maxwell's equations. The application of these principles, and the more recent findings of the wave mechanics, to electrical communication problems will form the nucleus of the course. Three lectures per week.
308. Nuclear Physics. 3 credits.

A study of the structure of the nucleus and modern methods of transmutation, with their application to bio physics and chemical physics. Three lectures per week.

## 309-310. Advanced Physical Measurements.

A graduate thesis course. Credit according to work done. Usually about 2 credits per semester. Lab. fee, $\$ 4$ each semester.
311-312. Thermodynamics. 3 credits each semester.
A mathematical course covering the fundamental principles of thermodynamics and their physical applications. Simple engineering applications will not be included. Three lectures per week.

## 314. X-Rays. 4 credits.

A first course in the theory and applications of X-rays, to physical and chemical problems. Extensive use of X-ray camera and interpretation of X-ray photographs. Three lectures and one laboratory period per week. Lab. fee, $\$ 2$.
(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.

While a student is at work he is subject to all rules and regulations imposed by his employer upon the other employees. All existing labor laws and conditions, including those pertaining to liability for accident, apply to the student in the same way as to any other employee.

In accordance with the policy of other engineering colleges, The University of Akron has adopted an accelerated program which enables engineering students to graduate in three years. It is expected that the five-year co-operative program will be resumed after the cessation of the war.

## 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.

[^6]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.

## THE DANIEL GUGGENHEIM AIRSHIP INSTITUTE

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 an addition to accommodate a gust tunnel was built in 1936.

The building houses three pieces of major equipment, a wind tunnel, a whirling arm, and a water tank. In addition there are a machine shop, moving picture cameras, a microphotometry outfit, and meteorological instruments.

The wind tunnel is one of the few vertical ones in the world. It has an overall height of 50 feet, the jet opening is 6 feet 6 inches in diameter, and the vertical distance between the jet entrance and exit is 13 feet. A 225 horsepower electrical motor drives a fan which is capable of producing a wind velocity of 120 miles per hour.

In the wind tunnel the model is at rest and the air moves by it. A model on the whirling arm moves through still air. This arm is 32 feet long, can be rotated at 75 revolutions per minute, and attains a velocity at its terminus of 170 miles per hour. A supplementary vertical wind tunnel delivers air normal to the path of the moving model and thus simulates conditions met with by a ship encountering gusts and squalls.

Inasmuch as air and water are both fluids, it is possible to test airship models in water and investigate the effects of cross currents in the water which are analogous to gusts in the air. The water tank is properly designed and equipped to make such investigations.

## 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 when the co-operative plan is in operation and begins with the student's admission to the Upper College. The alternation is by half semester periods until 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 coordinators 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, Bachelor of Electrical Engineering, and Master of Science in Mechanical 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.

The addition of the staff of The Daniel Guggenheim Airship Institute to the faculty of the Engineering College makes it possible for students to complete the requirements for a degree in mechanical engineering with an option in aeronautics.

## 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. The advanced course is discontinued until after the current war.

## 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



OUTLINE OF REQUIRED COURSES
THE GENERAL COLLEGE
First Year

| First Semester <br> Cr. Hrs. <br> nce \& Tactics 11 $\qquad$ 2 |  |
| :---: | :---: |
| Hygiene \& Physical Edu. $17 \ldots$ | Hygiene \& Physical Edu. 18 ............ 3 |
| Physics 21 (Mechanics) .................. 4 | Physics 22 (Mechanics) ................ 4 |
| Math. 21 (Algebra) ........................... 3 | Math. 22 (Trigonometry) ............... 3 |
| English 1 .......................................... 3 | English 2 .-.................................... 3 |
| Engineering Drawing 21 --................ 2, | Engineering Drawing 22 .-.-............- 2 |
| Survey of Engineering 24 ................ 1 | Industrial Processes 22 ................... 2 |


| Summer Session |  |
| :---: | :---: |
| Military Science and Tactics 43 | $\begin{gathered} \text { Cr. } \\ \ldots \\ \ldots . . \\ \hline \end{gathered}$ |
| Physics 43 (Heat and Electricity) | - 4 |
| Math. 43 (Analytical Geometry) | 3 |
| Math. 45 (Differential Calculus) | 3 |
| Surveying 21-22 ......................... | 2 |

## CIVIL ENGINEERING

## Professor Bocuslavsky

## OUTLINE OF COURSES

## Second Year



## Summer Session



Third Year

| Firat Semester Cr. Hrs. | Cr. Hro. |
| :---: | :---: |
| Structural Design CE 114 .....-.......... 3 | Structural Design CE 200 ............ 3 |
| Route Surveying CE 108 .........-....... 3 | Highways CE 107 ........................... 3 |
| Concrete Laboratory CE 112 ............ 1 | Roofs and Bridges CE 103 ............ 3 |
| Thermodynamics ME 189 ................. 3 | Water Supply CE 210 ................... 2 |
| English 61-62 (Report Writing) ...... 2 | Industrial Organization and Man- |
| Economics 41 ......-.............................. 3 | agement IE 111 ......................... 3 |
| Business \& Professional Speaking 472 | Electives ......................................... 4 |
| 17 | 18 |

## Summer Session



All credit hours are based on a complete semester period. 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 $149^{*}$ credit hours.

- 142 ducing the accelerated program.


## GENERAL COLLEGE

21-22. Surveying. Summer term. 2 credits.
Use of the tape, the level, and the transit. Computation of areas. Drawing of a map. Lab. fee $\$ 2$ each.
24. Survey of Engineering. First semester. 1 credit.

Lectures, readings, and motion pictures covering scope of the work in various branches of engineering.
44. Engineering Geology. Second semester. 2 credits.

Survey of the essential facts of dynamic, structural, and economic geology. Study of minerals and rocks.
46. Strength of Materials. First semester. 3 credits.

Prerequisites, Math. 46, Physics 22. Tensile, compressive, and shearing stresses. Riveted joints. Torsion. Shear and bending moment. Design of beams. Deflection of beams.

## UPPER COLLEGE

43-101. Surveying. Summer term. 4 credits.
Prerequisite, Surveying 21-22. Adjustment of instruments. Stadia and plane table. Contour mapping. Engineering astronomy. Lab. fee \$2 each.
103. Roofs and Bridges. Second semester. 3 credits.

Prerequisite, CE 114. Stresses in roof and bridge trusses due to dead, live, snow, and wind loads. Design of roof and bridge trusses.
107. Highways. Second semester. 3 credits.

Construction, cost, and advantages of the various types of hard surfaced highways. Study of traffic. Testing of bituminous material.
108. Route Surveying. First semester. 3 credits.

Prerequisite, CE 43-101. Maps and profiles. Grades. Curves and spirals. Earthwork. Office and field work. Lab. fee, $\$ 2$.

109-110. Applied Mechanics. Second semester. 3 credits.
Prerequisite, Math. 46, Physics 22. Forces. Resultants. Equilibrium. Friction. Centroids. Motion. Work and energy. Impulse and momentum.
112. Concrete Laboratory. First semester. 1 credit.

Laboratory tests of cement, aggregates, and concrete in accordance with the A. S. T. M. standards. Lab. fee, \$1.
114. Structural Design. First semester. 3 credits.

Prerequisite, CE 122. Design of steel structures, such as mill and office buildings, warehouses, and bridges.
117-118. Strength of Materials. Second semester. 3 credits.
Prerequisite, CE 46. Compression, tension, and torsion tests of steel, wood, brick, and cast iron. Column design. Combined stresses. Continuous beams. Lab. fee, \$2.
122. Stress Analysis. Summer term. 3 credits.

Prerequisite, CE 109-110. Structural analysis. Reactions, shears, and moments. Influence lines. Continuous beams. Trusses. Columns. Graphic statics.

200 (121). Structural Design. Second semester. 3 credits.
Prerequisite, CE 114. Design of wood trusses. Properties of wood.
Fastenings.
201 (124). Structural Design. Summer term. 3 credits.
Prerequisite, CE 122. Design of concrete structures, such as buildings, slab and girder bridges, and retaining walls.
205 (123). Statically Indeterminate Structures. Summer term. 3 credits.
Prerequisite, CE 122. Rigid frame and fixed arch bridges. Methods of moment distribution and elastic energy.
210 (115). Water Supply. Second semester. 2 credits.
Prerequisite, ME 184. Sources of water supply. Estimation of demand. Conveyance of water. Quality and treatment of water.

211 (116). Sewerage. Summer term. 2 credits.
Prerequisite, CE 210. Estimation of sewage. Design of sewer systems. Characteristics of sewage. Sewage disposal.
215 (127). Soil Mechanics. Summer term. 3 credits.
Prerequisite, CE 109-110. Soil properties. Soil moisture. Limits of consistency. Permeability. Cohesion and internal friction. Compressibility and consolidation. Stress distribution in soil. Settlement of structures.

## 220. Theory of Vibrations. 3 credits.

Prerequisite, CE 109-110. Vibrations without damping. Damped vibrations. Systems with several degrees of freedom. Models of vibration systems.
300. Advanced Structural Theory. 3 credits.

Prerequisite, CE 122. Methods of analysis of statically indeterminate structures. Computation of deflections. Secondary stresses.
301. Suspension Bridges. 3 credits.

Prerequisite, CE 122. Detailed study of suspension bridges.
302. Arches and Rigid Frames. 3 credits.

Prerequisite, CE 122. Study of steel and reinforced concrete structures.

## ELECTRICAL ENGINEERING



18


Third Year

Electricity \& $\begin{gathered}\text { First Semester } \\ \text { Magnetism } \\ \text { EE } \\ 125\end{gathered}$ Cr. Hrs. A. C. Machines EE 170 ..................... A. C. Machines Laboratory EE 171.. A. C. Circuit EE 130-131 3 Engineering Electronics EE 150 Cr. $\quad$| Sra |
| :--- | $11 / 2$ A. C. Machines EE 172 -.............. 3 $\begin{array}{llllll}3 & \text { Machine Design ME } 178 & \ldots & \ldots & 3 \\ 3 & \text { End....... } & 3\end{array}$

Thermodynamics ME 189 .............................
English 61-62 (Report Writing) ....
Elective

$\frac{4}{191 / 2}$


| Hrs | Second Semester Cr | Cr. Hra. |
| :---: | :---: | :---: |
| 3 | Engineering Electronics EE 150 .... | - 3 |
| 3 | A. C. Machines EE 172 | 3 |
| 11/2 | A. C. Machines Laboratory EE 173 | 32 |
| 3 | Machine Design ME 178 ............. | 3 |
| 3 | Economics 41 | 3 |
| 2 | Elective | 4 |
| 4 |  |  |



All credit hours are based on a complete semester period. 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 149* credit hours.

GENERAL COLLEGE
21-22. Industrial Electricity, 4 credits each semester.
Prerequisite, High School Algebra. Includes one 2-hour laboratory period. Lab. fee $\$ 2$ each semester. Elementary theory and applications of electro-mag. netism, resistance, inductance, capacitance, D. C. and A. C. machines and control.

[^7]55-56. Industrial Electronics. 2 credits each semester.
Prerequisite, EE 22. Includes one 2-hour laboratory period. Lab. fee, $\$ 2$ each semester. Elementary theory and industrial applications of electronic tubes, including X-Ray, welding, inductive heating, motor control, photo-electric and rectifier applications.
58. Elements of Electrical Engineering. First semester. 3 credits.

Prerequisite, Physics 43. Two recitations and one 3 -hour laboratory period. Lab. fee, \$3. An elementary technical survey of the electrical engineering field. Switching devices, direct current electrical measurements, arc welding, telephony, direct current radio, automotive and aviation electricity, direct current generators and motors, direct current transmission.

## UPPER COLLEGE

123-124. Elements of Electrical Engineering. 3 credits each semester.
Prerequisites, EE 58, Math. 46. Lab. fee, $\$ 3$ each semester. Two recitations, one 3 -hour laboratory period. Technical aspects of direct current and alternating current machines and thermionic vacuum tubes. Characteristics, methods of control and testing. Industrial applications.
125. Electricity and Magnetism. First semester. 3 credits.

Prerequisite, EE 123. Lab. fee, \$2. Two recitations and one 3-hour laboratory period.
130-131. Alternating Current Circuits. First semester. 3 credits.
Prerequisite, EE 124. Three recitations.
149. Electrical Measurements. Summer term. 3 credits.

Prerequisite, EE 124. Lab. fee, \$3. Two recitations and one 3-hour laboratory period.
150. Engineering Electronics. Second semester. 3 credits.

Prerequisites, EE 131, EE 149. Three recitations. A technical study of electronic tubes and associated circuits. A foundation course.
151. Electron Tube Applications. Summer term. 2 credits.

Prerequisite, EE 150. Lab. fee, $\$ 3$ One 4-hour laboratory period. The supporting laboratory experience for EE 150.
170. Alternating Current Machines. First semester. 3 credits.

Prerequisite, EE 131. A critical analysis of all types of alternators and transformers. Supporting laboratory, EE 171.
171. Alternating Current Machines Laboratory. First semester.
$11 / 2$ credits.
One 3-hour laboratory. Concurrent with EE 170. Lab. fee, \$4.
172. Advanced Alternating Current Machines. Second semester.

3 credits.
Prerequisite, EE 170. A continuation of EE 170, involving all types of induction motors, synchronous motors and rotary converters. Supporting laboratory, EE 173.
173. Advanced Alternating Current Machines Laboratory. Second semester. 2 credits.
Prerequisites, EE 170, EE 171. One 4-hour laboratory. Concurrent with
EE 172. Lab. fee, $\$ 4$,
180. Illumination Engineering. Summer term. 3 credits.

Prerequisite, Physics 44. Technical presentation of illumination theory.
Survey and analysis of existing installations. Problems in design for lighting. Supporting laboratory, EE 181.
181. Illumination Laboratory. Summer term. 1 credit. Concurrent with EE 180. One 3-hour laboratory.
198-199. Thesis. $11 / 2$ credits each semester.
190. Senior Electrical Problems. Summer term. 3 credits.

## INDUSTRIAL ENGINEERING

Professor McClure, Mr. Wansky

GENERAL COLLEGE
22. Industrial Processes. Second semester. 2 credits.

A study of manufacturing or fabricating processes of principal industries by use of process charts, motion pictures, plant visits, and assigned readings.

## 23. Job Simplifications. 3 credits.

Application of motion economy principles to improve job methods on problems brought in by class members.
25. Human Relations in Industry. 3 credits.

Analyzing, planning for and handling human relations problems such as inducting, training, improving, correcting, stimulating, and placating employees.

## UPPER COLLEGE

101. Industrial Plants. First semester. 3 credits.

Principles, practices, and economics in Plant Location, Building, Layout, Physical Conditions and Materials Handling.
103. Production Planning and Control. Second semester. 3 credits.

Principles and practices in Process and Product Design, Production Planning and Control, Inventory Control, Warehousing, Stores and Salvage Functions.
105. Quality Control. 2 credits.

Principles and practices in inspecting, testing, correcting and controlling quality of product or service.
107. Safety Engineering. Summer term. 2 credits.

Principles and practices in industrial safety as effected by engineering, education, equipment and enforcement.
109. Maintenance of Plant and Equipment. 3 credits.

Organization and Administration of Maintenance; Selection and Procurement; Stores; Power Metering; Inspection, Cleaning, Lubrication and Repair; Supervision, Planning and Scheduling; Recording Analysis, Estimating and Control of Maintenance Costs.
111. Industrial Organization and Management. 3 credits.

Principles and practices of planning, organizing and controlling the activities of an industrial organization, whole or in part.
154. Personnel Administration. Summer term. 3 credits.
157. Time Study. First semester. 2 credits.

Principles and practices in analyzing, timing, and setting standards for job performance and wage payment.
158. Motion Study and Micro-Motion Study. Second semester. 2 credits.

One recitation alternating with laboratory period. Lab. fee, \$2. Principles and practices applied to reducing time and effort waste.
256 (156). Industrial Management Problems. Summer session. 3 credits.
Modern principles and practices applied to an actual problem from industry. (Seminar-Senior standing or permission of instructor.)

## MECHANICAL ENGINEERING





Third Year
(Industrial Engineering Option)

| (Industrial Engineering Option) |  |  |
| :---: | :---: | :---: |
| First Semester <br> Cr. Mrs. | Production Second Semester | Cr. Hrs. |
| Industrial Plant IE 101 ...................- 3 | Production Planning and Control |  |
| Time Study IE 157 ........................ 2 | IE 103 | 3 |
| Mechanical Engineering Lab- | Motion Study IE 158 | 2 |
| oratory ME 182 ...-.-.................... 2 | Machine Design ME 178 | 3 |
| Thermodynamics ME 189 ................- 3 | Accounting ...................... | 3 |
| Mechanism ME 172 ......................... 3 | Business and Professional Speak- |  |
| Mechanism Drawing ME 174 ......-- 1 | ing 47 ....................................... | 2 |
| English 61-62 (Report Writing) ...... 2 | Electives | 6 |
| Economics 41 .-.................................. 3 |  |  |
| $\overline{19}$ |  | 19 |

Summer Session


Third Year

| cr | cr. Hrs . |  | Cr. ${ }^{\text {Hrom }}$ |
| :---: | :---: | :---: | :---: |
| Mechanical Engineering Laboratory ME 182 $\qquad$ |  |  |  |
|  | 2 | Machine Design ME 178 $\qquad$ <br> Industrial Organization and Management IE 111 |  |
| Thermodynamics ME 189 | 3 |  | . 3 |
| Mechanism ME 172 | 3 | Aerodynamics Laboratory 202 | 3 |
| Mechanism Drawing ME 174 .... | 1 | Business \& Professional Speaking |  |
| Shop Practice ME $49 . . .$. | 2 | 47 | 2 |
| Aerodynamics 200 ..................... | 3 | Electives | 8 |
| English 61-62 (Report Writing) .-.... | 2 |  |  |
| Economics 41 .................................. | 3 |  | 19 |
|  | $\overline{19}$ |  |  |



All credit hours are based on a complete semester period. 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 149* credit hours.

GENERAL COLLEGE
21-22. Engineering Drawing. 2 credits each semester.
23. Machine Drawing. Summer session. 2 credits.

Prerequisite, 22.
24. Aircraft Drafting. 2 credits.

Prereguisite 22. A study of the materials and methods used in airplane construction with special emphasis on terminology, abbreviations, and standard parts as adopted by leading airplane manufacturers and approved by the Army and Navy. The exercises will include dimensional control, lofting, pattern layouts, ribs, spars, contours, controls and details of various airplane parts.

* 142 during the accelerated program.

44. Descriptive Geometry. Second semester. 3 credits.

Prerequisite, 22.
46. Heat Power Engineering. Summer sessior. 3 credits.

Prerequisite, Physics 22. This course treats of the principles and theory involved in the application of heat to various forms of heat engines, including the steam engine, steam turbine, internal combustion engine, and power plant auxiliaries.
49. Shop Practice. Summer session. 2 credits.

Lab. fee, $\$ 3$.

## UPPER COLLEGE

172. Mechanism. First semester. 3 credits.
173. Mechanism Drawing. First semester. 1 credit.

Prerequisite, ME 172.
178. Machine Design. Second semester. 3 credits.

Prerequisite, CE 118. A study of the construction, materials used, and the functions of various machine elements and the theory and methods used to calculate size of parts by means of the application of Mechanics and Strength of Materials.
179. Machine Design. Summer session. 5 credits.

Prerequisite, ME 178. A continuation of 178 with laboratory work which includes the calculations and design of an assigned machine.
180. Machine Design. 2 credits.

Prerequisite, ME 179. An elective course for students desiring additional work in this field. The student works on an assigned project.

## 182. Mechanical Engineering Laboratory. First semester. 2 credits.

The calibration and the use of instruments and apparatus including pressure and vacuum gauges, thermometers, engine indicators and oil testing apparatus. Basic tests on internal combustion engines. Lab. fee, $\$ 2$.
183. Mechanical Engineering Laboratory. Second semester. 3 credits.

Prerequisite, ME 182. Experiments on the flow of fluids, including the orifice, Venturi meter, flow meter, weirs and the Pitot tube. Steam engine and steam turbine tests and standard S. A. E. tests on internal combustion engines. Lab. fee, $\$ 2$.

## 184. Hydraulics. Summer session. 3 credits.

Prerequisite, Math. 56. Fluid pressure, its measurement and its effect on various structures. The fundamental theory of fluid flow and its measurements by means of orifices, meters, weirs, pipes, and channels. The dynamic effect of jets on fixed and moving vanes.
185. Steam Power Plants. Second semester. 3 credits.

Prerequisite, ME 46. Fuels, combustion and heat transfer followed by the fundamental laws of heat power as applied to steam boilers, steam turbines, and power plant auxiliaries.
186. Steam Power Plants. Summer session. 3 credits.

Prerequisite, ME 185. Steam turbines and condensing equipment followed by numerous problems in heat power and thermodynamics.
187. Heating and Air Conditioning. First semester. 3 credits.

Prerequisite, Physics 43. Heat loss in buildings, various types of heating equipment and the methods used to calculate their sizes. Cooling, dehumidifying and air circulation with a study of the methods used to design and select the proper equipment to satisfy the given requirements.
189. Thermodynamics. First semester. 3 credits.

Prerequisite, Math. 46
190. Gas and Oil Engines. Summer session. 3 credits.

Prerequisite, ME 189. A study of the fundamental cycles of operation and combustion phenomena as applied to the internal combustion engine.
192. Refrigeration. (An elective course). 3 credits.

Prerequisite, ME 189. A study of the characteristics of refrigerants and the theory, design and construction of refrigeration equipment with modern applications.
194. Special Mechanical Engineering Problems. Summer session. 3 credits.
Lab. fee, $\$ 3$.
196. Inspection Trips. Second semester. 1 credit.
197. Heating and Ventilating. First semester. 2 credits.

Evening session. Heat loss in buildings, various types of heating equipment and the methods used to calculate their sizes.
198. Air Conditioning. Second semester. 2 credits.

Evening session. Cooling, dehumidifying and air circulation with a study of the methods used to design and select the proper equipment to satisfy the given requirements.

## AERONAUTICS

Professors Myers, Troller and Huss, Assistant Professor Chilton, Mr. Long, Mr. Reagan, Mr. Ross, Mr. Ruggles, Mr. Sterbentz, Mr. Stimler

161-162. Aircraft Materials and Construction. 2 credits each semester. Prerequisite, Strength of Materials. The requirements of aircraft structures including the materials and their characteristics. Steel, aluminum, and their alloys, magnesium, timber, plastics, rubber, and glass. An application of the use of the above materials to the construction of ribs, covers, ailerons, tail surfaces, cables, bearings, engine supports, and steering mechanisms. Also problems in vibration, damping, fatigue, and noise reduction.

## 163. General Aeronautics. First semester. 3 credits.

An introduction to aeronautics. An outline of history of aeronautics, Survey of the various types of aircraft, Physical properties of the air, Theory of flight, Component parts of the airplane, Construction and operation of airplanes, Instruments, Aeronautical safety appliances and communications.

169-170. Meteorology. 3 credits each semester.
Prerequisite, Physics 44. Meteorology as applied to aeronautics. Structure and characteristics of the atmosphere, wind and pressure, weather maps and symbols, forecasting, the Synoptic chart including its preparation and significance, and a study of various charts to represent upper strata.

200 (165). Aerodynamics. Second semester. 3 credits.
Prerequisite, Applied Mechanics, CE 110. A study of the nature of air forces, Airfoils, Theory of lift, Induced drag, Parasite drag, Pitching moment, Pitot and Venturi tubes, Types of flow, The monoplane, Flow mechanics, Circulation, impulse, and lift of wings, The propeller, Static stability, Dynamic stability, Auxiliary lift devices, Turning flight and load factors.

201 (166). Airplane Design. Summer session. 3 credits.
Prerequisite, Aerodynamics 200. Procedure in designing an airplane, such as, weight distribution in the airplane, determination of center of gravity location and motion, static stability calculations, critical loads on the airplane as determined by government regulations, determination of critical wing shear and bending moment curves, structural analysis of some of the main airplane parts.

202 (167). Aerodynamics Laboratory. Second semester. 3 credits.
To be taken concurrently with Aerodynamics 200. The study and use of instruments and testing equipment in order to familiarize the student with the technique of aeronautical laboratory testing. The work is correlated with Aerodynamics 200, and thus the student is able to apply aerodynamic theory to the solution of practical problems. Wind tunnel experiments predominate. An engineering report is required on each assignment. Lab. fee, \$2.

203 (168). Aeronautical Problems. Summer session. 3 credits.
Prerequisite, Aerodynamics Laboratory 202. This is a course in which the student makes use of the laboratory in the working of a particular research problem selected by him with the approval of the instructor. The purpose of the course is to help the student develop the technique of analyzing a problem and of setting up and carrying out a laboratory testing procedure that will enable him to obtain the solution. The work may be done individually or in small groups.

## 300. Aerodynamic Principles. 3 credits.

Prerequisite, Aerodynamics, 200. A more advanced study of aerodynamic principles and their development. Would be accompanied with the practical application of these principles to design and to performance estimates.

301-302 (159-160). Aerodynamics of Lighter-Than-Air Craft.
2 credits each semester.
Mechanical or aeronautical engineering (three years or equivalent.) Definition of air forces on dirigibles and captive balloons, experimental facts about air forces, pressure distribution and general nature of flow about airship bodies, theory of potential flow about airship bodies, theory of surface friction and its effect on airships, theory of airship propulsion, stability of free and captive ships and of moored airships, ground handling forces, gust forces, heat transfer, performance of airships wind tunnel tests, various design problems and possibilities.

## OTHER COURSES FOR ENGINEERING STUDENTS <br> CHEMISTRY

Professor Schmidt, Assistant Professor Dreisbach
131. Engineering Chemistry. First semester. 3 credits. Lab. fee, $\$ 5$.
132. Engineering Chemistry. Second semester. 3 credits.

Lab. fee, $\$ 5$.
136. Chemistry (Fuels and Combustion). Second semester. 2 credits.

ENGLISH
Assistant Professor Raw
61-62. English (Report Writing). 2 credits.
METALLURGY
Professor Fairburn, Mr. Grove, Mr. Snider
133. Physical Metallurgy. First semester. 2 credits.

A beginning course in the fundamental science of metals. Chemistry of metals. Electron theory. Atomic structure. Types of lattices. Grains. Dendrites. Binary equilibrium diagrams of the basic alloy types; completely soluble, insoluble, partially soluble and compounds. Theory of solder, babbitt metals, etc. The microscope. The X-Ray. Radium. Electrical phenomena in metals; Conductivity, Magnetism, Seebeck effect, Peltier effect, Thompson effect, Electronic emission. Temperature measurements. Metal prospecting and mining.
134. Physical Metallurgy Laboratory. First semester. 1 credit.

Concurrent with 133 . One 3 -hour laboratory period. A beginning laboratory course in Metallurgy, correlated with MET 133. Chemistry of metals. Electrical phenomena in metals. Measurement of temperature by all known methods. The microscope, micrograph. The X-Ray. Equilibrium diagrams of simple binary alloys. Lab. fee, $\$ 5$.
137. Ferrous Metallurgy. Second semester. 2 credits.

Prerequisite, MET 133. A course designed to familiarize the student with the alloys of iron, their properties, heat treatment, limitations and correct applications; to provide him with the background necessary for his entering the field of ferrous metallurgy. Pure iron. Steel, alloy systems, binary and ternary equilibrium diagrams. Solidification. Fundamentals of heat treatment, hot and cold working, annealing, normalizing, spheroidizing, tempering, austempering, nitriding, carburizing, induction heating. Static mechanical properties. Dynamic mechanical properties. Low, medium and high-carbon steels. Heat and corrosion resistance, welding. Cast iron, composition, structure, properties and applications.
138. Ferrous Metallurgy Laboratory. Second semester. 1 credit.

One 3-hour laboratory period. Concurrent with MET 137. A laboratory course dealing with alloying of iron. Heat treatments. Cold working. Quenching. Grain size. Tensile, compressive and hardness tests. Micrographs. Identification of iron alloys. Surface treatments.

## 139. Non-Ferrous Metallurgy. First semester. 2 credits.

Prerequisite, MET 133. An advanced course in the metallurgy of Aluminum and Magnesium Alloys. Occurrences and extraction methods. Equilibrium diagrams, binary, ternary, etc. Casting, forging, extrusion, rolling. Heat treatments, precipitation hardening. Considerations of Beryllium and Lithium for future alloys.
140. Non-Ferrous Metallurgy Laboratory, First semester. I credit.

One 3-hour laboratory period. Concurrent with MET 139. A laboratory course dealing with the alloying of Aluminum, Magnesium, Beryllium, etc. Compositions. Cold working. Heat treatments. Quenching. Grain size, hardness. Casting technique. Mechanical tests. Micrographs.

# THE COLLEGE OF EDUCATION 

Hjalmer W. Distad, Ph.D., Acting 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 co-operate with the University in a number of ways, chief of which is the provision of the Spicer Elementary School for observation and laboratory experiences. 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. 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.

The College of Education has for its first major purpose the professional preparation of teachers. Attention is 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.

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.

A 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 rep-
resent 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 in the regular academic subjects, the special fields such as physical education, music, art, secretarial science, commerce, speech and home economics; nursery school, kindergarten-primary, 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 State of Ohio will grant a temporary or provisional elementary school certificate upon the completion of a program leading to the three-year diploma. Such a program is still provided by the College of Education for those students who wish to complete it. 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.

Due to the current shortage of elementary teachers, the State Department of Education will grant a temporary certificate upon the completion of two years of training in an elementary curriculum. During the emergency the College of Education is offering an accelerated two-year program for the training of elementary teachers. Students pursuing this curriculum may take their professional courses during the freshman and sophomore years.

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 an average 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.

## BASIC REQUIREMENTS FOR ALL DEGREES

1. General Education and prerequisite pre-professional requirements:

English 1-2 ................................................................................................................. 6

Introduction to Humanities 7-8................................................................................................. 6
Introduction to Natural Science 9-10.......................................................................... 6

General Psychology 41.
Educational Psychology 52 3

Fundamentals of Speech 76.

Mathematics, Foreign Language, Accounting or *Elective................................... $\quad$ 6-8
Military Science and Tactics (Men) .................................................................................................. 6
2. Professional courses:

Tests and Measurements 105....................................................................................... 2
School Management 115
2 2
Student Teaching 124
Methods Varies with the teaching field
Principles of Education 201 3
3. Major field plus one or two minors, depending upon field.

## REQUIREMENTS FOR THE B. A. IN EDUCATION

The B. A. 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.)
*For Elementary Curriculum.

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



For selection of required courses to constitute a teaching field, consult the Dean of the College 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 39 and the following courses in education:


```
    Tests and Measurements,
        2
    Principles of Education, 201
    Student Teaching, 124
    School Management, 115
    Fundamentals of Speech, 76
```



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. At the time of entering upon student teaching, this must be 2.5 in the major field and 2 in the minors.

[^8]
## SEQUENCE OF PRE-PROFESSIONAL AND PROFESSIONAL COURSES



## ELEMENTARY EDUCATION

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

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

The lower elementary course is designed for students preparing to teach in grades one to three inclusive. The upper elementary course is for those preparing to teach in grades four to eight inclusive.

In addition to the basic requirements listed on page 115, the following courses should be taken:

LOWER ELEMENTARY UPPER ELEMENTARY


## KINDERGARTEN COURSE

To qualify for the special Kindergarten-Primary Certificate the applicant must complete the Lower-Elementary Course with the following exceptions:

1. Kindergarten Education 129 instead of Primary Education 132.
2. Student Teaching must be in the kindergarten and/or the first grade.

## ART COURSE

To obtain the B.S. in Education degree with a major in art, one must fulfill the basic requirements listed on page 115 plus the art major.

| Drawing: | Cr. Hrs. | Design, Painti | Cr. Hrs. |
| :---: | :---: | :---: | :---: |
| Structural | 2 |  |  |
| Drawing and Rendering 45-4 |  | Design, 22 and | 4 |
| Drawing and Rendering 40-4 | 4 | Still Life 47-48 | . 4 |
| Illustration 179 | 2 | Modeling 59-60 | . 4 |
| Graphic Arts 104 | - 2 | Weaving 106-107 | . 4 |
| Figure Drawing 175-176............. | - 4 | Occupational Therapy 101. | - 2 |
| Methods, etc.: |  | General Crafts 102 | - 2 |
| Methods in Teaching Art $191 . . . . .$. | 3 | Costume 151 | 3 |
| Art for the Grades 121............ | 2 | Interior Decoration 171.. | - |
| Student Teaching 124...-.............. |  | Appreciation and History: |  |
|  |  | Appreciation 29-30 --... |  |
|  |  | History of Art 201-202. | . 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 secondsemester Dictation, third-semester Accounting, Special Methods, High School Methods, one minor, general and professional requirements.

Stenography-Typing.-Valid for teaching Shorthand, Typewriting, Business English, Clerical Practice, and Secretarial Practice. The course must include fourthsemester 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 electivea to total 20 hours.

CURRICULUM IN COMMERCIAL TEACHER TRAINING
First Year, General College


## Second Year, General College

Introduction to Natural Science 9 .... 3 Introduction to Natural Science $10 \quad 3$
General Psychology 41 ….................. 3 Educational Psychology 52 3
Military Training (Men) $11 / 2$ Military Training (Men) $11 / 2$
Fundamentals of Speech 76 or Major 3 Literature ..................................... 3

Typewriting (Major) 51
Major 2
3
Introduction to Education 55 $\qquad$ 2
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 $3 \quad \begin{aligned} & \text { High School Methods } 113 \\ & \text { Economics } 41\end{aligned}$...................................... ${ }^{3}$
Economics 41 .......................................................... 2 or 3
Tests and Measurements 105 .......... 2 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 13
Major, Minor, or Elective $\qquad$
Additional major subjects: advanced work in any field for which prerequisites have been taken,

## HEALTH AND PHYSICAL EDUCATION

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

## First Year, General College



## Second Year, General College

| Introduction to Natural Science 9 .... |  | Introduction to Natural Science 10 |
| :---: | :---: | :---: |
| General Psychology 41 |  | Educational Psychology 52 |
| Physical Education 45 |  | Physical Education 46 |
| Introduction to Education 55 | 3 | Fundamentals of Speech 76 |
| Literature | 3 | Literature |
| Military Training (Men) | $2$ | Military Training (Men) |

Third Year, Callege of Education


Fourth Year, College of Education
Tests and Meas. 105 ...........................
Org. and Adm. of Phys. Ed. 121 ....
Kinesiology 124
Hygiene and Health Activities for Elementary Grades 131

2 School Management 115

Clementary Grades 131 $\qquad$
Games for Elem. Grades 132

Org. and Adm. of Phys. Ed. 122
Student Teaching 124
Principles of Educa. 201 $\qquad$ 6
3

## HOME ECONOMICS COURSE

To obtain the B.S. in Education degree with a major in home economics one must fulfill the basic requirements listed on page 115 plus the home economics major plus one minor.



## MUSIC EDUCATION

To obtain the B.S. in Education degree with a major in Music Education one must complete the basic requirements listed on page 115 and the Department of Music requirements given below.

| Department of Music Requirements |  |
| :---: | :---: |
| Theoretical Music Cr. Hrs. | Music Orcanizations |
| Music Orientation $21 . . . . . . . . . . . . . . . . . . .-2$ | University Women's Chorus |
|  | University Singers |
|  | University Civic Orchestra |
| Theory 1142 ,-.........-.................. 5 | Music Educati |
| Theory III $103 \ldots \ldots$ |  |
| History of Music 101-102 ............... 4 | Primary Elementary Music Ed. |
| Orchestration 114 ........................ 2 | 121 .-...................................... 2 |
| Conducting 112 ...........................- 2 | Secondary Music Ed. 123 |
| Applied Music (Individual) | Psych. of Music Ed. 124 |
| Piano 1 or 2 credits per semester | Administrative Problems 128 |
| Voice 1 or 2 credits per semester | Applied Music (Class) |
| Organ 1 or 2 credits per semester | Pi Cr. Hrs. |
| Violin 1 or 2 credits per semester | Piano Class 51, 52 ..........-......... |
| Flute 1 or 2 credits per semester | Voice Class 53, $54 . . . . . . . . . . . . . . . . . . . ~$ |
| Woodwind Instruments | String Class 55, 56 .....-.............. |
| 1 or 2 credits per semester | Woodwind Class 57 |
| Brass Instruments | Brass Class 58 |

Brass Instruments
1 or 2 credits per semester
Cello 1 or 2 credits per semester
Accompanying 1 credit per semester

## Additional Requirements for Majors in Music Education

(1) If a student wishes to major in School Music, he must have reached a satisfactory degree of achievement in Voice, or in some instrument, before entering college. A musical aptitude test will be given each student near the beginning of the first year of study.
(2) Sixteen credits are necessary in individual instruction and must include 4 credits in Piano and 4 credits in Voice.
(3) Class instruction cannot be substituted for individual instruction.
(4) Presentation of both Junior and Senior recitals is recommended.
(5) Continuous enrolment in any one of the music organizations is compulsory.
(6) The requirements of the State Department for certification in music are met by the requirements of the College of Education and the Department of Music.
Music Requirements for Graduates in Primary and Elementary Education. Music Orientation -.................................................................. 2 hrs. The Art of Music ...................................................................... 2 hrs . Primary-Elementary Music Education .................................... 2 hrs .
(Recommended: Piano Class, Voice Class and Dalcroze Eurythmics).
SPEECH
To obtain the B.S. in Education degree with a special major in Speech one must fulfill the basic requirements listed on page 115 and the following courses:


The B.A. in Education with a major in Speech may be obtained by completing 24 hours of Speech including the courses listed above with the exception of Teaching of Speech 114. The minor requirement is 15 hours and includes the courses listed above with the exception of History of Speech 291-292, Seminar 293 and Teaching of Speech 114.

## 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.


## STUDENT ADVISERS

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

Students should also feel free to consult the Dean of the College of Education regarding any of their problems.


## 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 April and November, 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 51. These persons will be recommended for certification on the basis of the major and minor requirements on page 116 and the completion of the courses listed above under Sequence of Pre-Professional and Professional courses.

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 office of the Dean or in the 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 the 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 addition to the qualifying examination a student, in order to be eligible to engage in student teaching, must have at least an average quality point ratio of 2.5 in his major field, an average quality point ratio of 2 in his minor fields, and at least an average 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 B.A. 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


GUIDANCE COUNSELOR
Undergraduate prerequisites:
Educational Psychology 52 ................
Educational Tests and Measurements 105
Production, Prices, and Income 41
Labor Problems 106 .........................
Recommended courses:
Personnel Management 164
Community Organization 206
Family 204
Adult Education 211 -........................-
Required courses with graduate credit
Mental Hygiene 207
Abnormal Psychology 208
Guidance for Elem. Sch. 301
Guidance for Sec. Sch. 302
Advanced Educa. Psych. 303
Educational Statistics 311
Educational Diagnosis 313
Secondary Sch. Admin. 320
Public Sch. Admin. 321 ${ }_{2}^{\mathrm{Hrs}}$

Adv Educa Psychology $303 \quad$ Cr. Hrs
Adv. Educa. Psychology 303 ........- 2
Activity School 303
Educational Statistics 311
Educational Diagnosis 313
Psychological Systems $317-318$
Supervision of Instruction 322 ......
Educational Philosophy $323-324$....
Elem. School Admin. 331 …
Technique of Research 425 ..............
Clinical Psychology 425-426 .-........
Seminar in Curriculum 427 .......... 2
Thesis
2
SCHOOL SUPERINTENDENT
Adult Education 211 ......................
Guidance 301
Adv. Educa. Psychology 303
2

Educational Pistics
Educational Diagnosis 313
Psychological Systems 317.318
Second Sch. Administration 320 ....
Public Sch. Administration 321 ......
Supervision of Instruction 322 ......
Educational Philosophy 323
Elem. Sch. Administration 331 .......
Technique of Research 425 ............
Seminar in Curriculum 427 ............
Comparative Education 433
Thesis
SCHOOL PSYCHOLOGIST
Undergraduate prerequisites:
Child Psychology 105 ....................
Psych. of Adolescence 106 .............
Psych. of Delinquency 115 .............. 3
Recommended courses:
Speech Sci. and Correct. 172 ......... 3
Required courses with graduate

## credit:

Mental Hygiene 207 ...................... 3
Abnormal Psychology 208 .................. 2
Technique of Social Case Work
$251-252$ in Elem............................... 4
Guidance in the or Sec. Sch. $302 \ldots$.
Advanced Social Psych, $302 \ldots \ldots . . .$.
Advanced Educa. Psych. 303
Educational Statistics 311
Adv. Educa Measure 312 ...........
Educ duca. Measure. 312
Psychological Testing 315
Clinical Psychology 425, 426 ......... 4

## SUBJECTS OF INSTRUCTION

An asterisk ( ${ }^{*}$ ) preceding the course number indicates the course is credited in the Liberal Arts College.

## ART

Professor Barnhardt, Assistant Professor Cable, Miss Riblett, Mr. Faysash 121. Art for the Grades. Either semester. 2 credits.

Prerequisite, 21. A survey of art requirements in the elementary grades with laboratory work, to give teachers a knowledge of materials and mediums, and skill in handling them.

## 191. Methods in Teaching Art. First semester. 3 credits.

Prerequisite, completion of the required course for Art teachers and quality point ratio of 2 in the field. Study of trends and procedure in teaching and in supervision; relation of art to the home, school and community; observation in selected schools is required.

## COMMERCIAL EDUCATION

Professor Doutt, Associate Professor Flint
154. Methods in Typewriting and Office Practice. 2 credits.

Prerequisite, Secretarial Training 74 and quality point ratio of 2 in the field. Typewriting technique, methods of grading and testing. Written observations are required. A theory test must be passed before credit is given for the course.
155. Methods in Shorthand and Transcription. 2 credits.

Prerequisite, Secretarial Science 63 or 143 and a quality point ratio of 2 in the field. Includes methods of presentation and written observations. A theory test must be passed before credit is given for the course.

## 172. Methods in Bookkeeping and General Business. 2 credits.

Prerequisite, Accounting 22 or 42, and a quality point ratio of 2 in the field. Includes methods of presentation, working a practice set, preparing lesson plans, and making written observations.

## EDUCATION

Dean Distad, Professor Kuhnes, Associate Professor Kemler Assistant Professors Foster and Jones, Miss Krauss

## GENERAL COLLEGE

## 41. Handicrafts in Elementary School. 1 to 3 credits.

This course consists of a broad range of experiences through the manipulation of various craft mediums which will enrich the curriculum of the elementary school. Lab. fee, \$2.
*55. Introduction to Education. Either semester. 3 credits.
An orientation course giving an overview of the characteristic features of the American educational system and some explanation of the forces that have affected its development.
69. Introduction to Aviation. Evening session. 3 credits.

This is an introductory course covering general principles of aviation. Topics include: fight principles, construction and operation of airplanes and airplane engines, flying instruments, and safety devices.

## 83-84. Story Telling. Each semester. 3 credits.

A study of story material, discriminative selection, preparation, and presentation of traditional and modern stories for children; emphasis on the telling of stories and creative dramatics.
*86. Children's Literature. 3 credits.
A survey of materials for children in prose, poetry, and illustrations from early historical periods to modern types; criteria of selection and methods of presentation are critically examined.

## UPPER COLLEGE

101. Activity School. 3 credits.

A course offered in connection with the demonstration school in the summer. Designed to examine critically recent trends and newer practices in elementary education and to develop a forward-looking point of view.

* 105. Educational Tests and Measurements. Either semester. 2 credits.

Prerequisite, 52. A study of the various methods and devices employed in comprehensive and continuous evaluation. Some attention given to the treatment and interpretation of scores. Fee, $\$ 2$.

## 113. High School Methods. Either semester. 3 credits.

This course includes four units of study carried on concurrently: (1) the basic principles of teaching; (2) a working knowledge of methodology in a specific field; (3) daily observation and participation; (4) preparation of teaching materials.
115. School Management and Administration. 2 credits.

Accompanies Student Teaching. A study of the administrative relations and responsibilities of the teacher. Group discussion of problems arising in student teaching.

## 124. Student Teaching. Either semester. 6 credits.

Prerequisite, Education 113 or equivalent. Student teaching under the guidance of a directing teacher and a university supervisor.

## 129. Kindergarten Education. 3 credits.

Prerequisite, Psychology 52. This course aims to develop a forward-looking viewpoint in the education of pre-school children; a study of materials, techniques, and practices which promote all-round growth and development of young children.
131. Primary Education. First semester. 3 credits.

Prerequisite, Psychology 52. This course aims to develop a forward-looking viewpoint in the education of young children. Materials, techniques, and practices are examined which furnish opportunities for co-operative enterprises and serve as a background for democratic living.
132. Primary Education. Second semester. 3 credits.

Prerequisite, Education 131. A continuation of course 131 with emphasis on the teaching of the language arts, science, and social studies at the primary level.

## 133. Science for the Elementary Grades. 3 credits.

Prerequisite, Psychology 52. A course for the prospective teacher of science in the elementary school; the development of a point of view toward science teaching and a study of methods of presenting science material; major emphasis is placed upon science content.

## 135. The Teaching of Reading. First semester. 3 credits.

Prerequisite, Psychology 52. A survey of the reading program for the elementary school, together with modern methods of teaching reading at the various levels.
136. The Teaching of Arithmetic. 2 credits.

Prerequisite, Psychology 52. A study of trends in arithmetic instruction in the elementary school. Attention is given to procedures for the development of mathematical concepts and skills.
137. Teaching the Language Arts. 2 credits.

Prerequisite, Psychology 52. This course deals with materials, grade allocations, and methods for teaching oral and written expression, spelling and handwriting in elementary grades, according to the best modern practice.

## 138. The Teaching of Social Studies. 2 credits.

Prerequisite, Psychology 52. A study of social studies program in the elementary school and the varied means of implementing the program.

151-152. Elementary Education. Evening and Summer sessions. 6 credits.
An evaluation of recent trends and newer practices in elementary education. A refresher course.
*201. Principles of Education. Either semester. 3 credits.
The purpose of this course is to assist the senior student in integrating his thinking regarding the purpose of an educational system in a democratic community.
211. Adult Education. 2 credits.

A survey course for public school teachers and administrators as well as for those engaged full time in Adult Education. An historical background including European influences and their relation to the rapid developments in the field during the last decade will be emphasized. A greater share of the course will be devoted to current programs throughout the United States which include the social, economic and civic importance of a well-planned program of Adult Education in a Democracy.

## 235. Workshor (Elementary School). 3 credits.

Opportunity for individual work under staff guidance on curriculum problems; utilization of community resources; planning of curriculum units.

GRADUATE COURSES IN EDUCATION
Dean Distad, Professor Kuhnes, Associate Professor Kemler, Assistant Professor 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 in the Elementary School. 2 or 3 credits.

A study of the fundamental principles and methods of guidance and pupil adjustment.
302. Guidance in the Secondary School. 2 credits.

A study of the principles and techniques of student guidance; the setting up of an effective guidance program in the secondary school.
303. Activity School. 3 credits.

See Course 101. For graduate credit additional work of an advanced nature is required.
*311. Educational Statistics. 2 credits.
A course in statistical methods and techniques used in the field of measurement and by research workers in education and psychology.
312. Advanced Educational Measurements. 2 credits.

A study of the techniques of measuring and evaluating pupil progress. Some attention will be given to the theory of test construction. Fee, $\$ 2$.
313. Educational Diagnosis. 2 credits.

A study of the factors contributing to educational disability. Techniques of diagnostic and remedial work will also be treated.
320. Secondary School Administration. 2 credits.

A treatment of the problems, procedures, and principles of organization and administration in secondary schools.
321. Public School Administration. 2 credits.

The theory and practices of educational administration in state and county systems, cities, and rural districts.
322. Supervision of Instruction. 2 credits.

A study of the principles, organization, and techniques of supervision with a view to the improvement of instruction.

## 323-324. Educational Philosophy. 2 credits each semester.

The purpose of the course is to integrate the thinking regarding the current educational problems that must be solved by understanding the current philosophy of life in the light of its history and present trends.
331. Elementary School Administration. 2 credits.

A study of the problems, procedures, and principles of organization, administration, and supervision in elementary schools.
335. Workshop (Secondary School). 2 credits.

This course consists of lectures on workshop technique supplemented by the working out of individual problems under staff guidance.

## 341. Evaluation of Secondary Schools. 2 credits.

This is a laboratory course in which the evaluation of a high school will be made by use of up-to-date techniques and criteria.

## 401. Great Teachers. 2 credits.

The purpose of this course is to assist the student to perceive the educational significance of the leaders in the field during the past three hundred years.
423. Concept of Mind in Educational Theory. 2 credits.

The purpose of this course is to examine the influence upon educational theory and practice of the concepts that have been dominant in education.
425. Technique of Research and Investigation. 2 credits.

A study of research methods and techniques commonly used in education and psychology; some emphasis given to the preparation of research reports.
427. Seminar in Curriculum. 2 credits.

A study of the principles underlying curriculum construction; review of important investigations; and practice in construction of curriculum units.
433. Comparative Education. 2 credits.

A comparison of the educational philosophy and organization of English and American education.
434. Comparative Education. 2 credits.

A comparision of the educational philosophy and organization of American and Latin American education.

## GEOGRAPHY

Assistant Professor Foster and Assistant Professor Edward W. Jones

## GENERAL COLLEGE

*71. Principles of Geography. 3 credits.
A study of those principles which are basic in gaining an understanding of the relationship of man's activities to his natural environment.
*72. Geography of North America. 3 credits.
A study of the natural regions, climate, natural resources, work patterns and industries of the continent.
*73. Geography of South America. 3 credits.
This course will give each student a basic view of the entire South American continent, its climate, products, types of inhabitants, its various kinds of government and its relation to the North American neighbors.
*74. Geography of Europe. 3 credits.
A study of the natural regions, the uneven distribution of resources among the several political units and an evaluation of some of the problems faced by the countries of the continent.
*75. World Geography. 3 credits.
In this course a general study is made of the effects of geographical environment upon the human response of people living in Africa, Malaysian Lands, India, China, Japan, Russia, South America, Caribbean Lands, The United States, and Western Europe.

## 76. Meteorology. Evening session. 2 credits.

A first course covering the composition and properties of the atmosphere, causes of clouds and cloud types, variations of temperature and their effects, circulation of air, air masses, fronts, and disturbances, weather reports, weather maps, and weather forecasts.

## HOME ECONOMICS

See under Home Economics in the College of Liberal Arts.

## MUSIC EDUCATION

Professor Gross, Associate Professor Ende, Mr. Stein, Mr. Lightfritz, Mr. Wheeler, Mr. Funkhouser, Mr. McBride, Mr. French, Mr. Camprell, Mrs. Van Sickle, Miss Wells
110. Recital Techniques. No credit.

This course is devised to cover the entire area of public performance in both the vocal and instrumental fields.
121. Primary-Elementary Music Education. 2 credits.

The methods of teaching music from the kindergarten to the sixth grade inclusive. All the available materials are also investigated.
123. Secondary Music Education. 2 credits.

The procedures that should be employed to give the adolescent a wellbalanced participation in applied and theoretical music.
124. Psychology of Music Education. 2 credits.

The basic motivations of music education. The psychological factors in gaining these musical dispositions are examined.
128. Administrative Problems. 2 credits.

The academic, economic, social, and professional problems that confront every music teacher. A summary is made of the contributions which have appeared in the professional journals.

131-132. Dalcroze Eurythmics. 2 credits.
The mental and physical acclimation to every conceivable rhythmic device, which is essential to anyone interested in music. This course is so conceived that it can be applicable to all the various branches of music.
311-312. Seminar and Thesis. 4 credits.
A critical study of the literature in the field in which the thesis is written. A graduate course.

## PHYSICAL EDUCATION

Professor Sefton, Associate Professor Smith, Assistant Professors Beichly, lamkin, and Baldacci, Mr. Krino, Miss Clayton, Mr. Kossky

GENERAL COLLEGE

* 17-18. Hygiene, Physical and Mental. For description see page 44.

Two lectures and one two-hour laboratory period a week for women. One lecture and two two-hour laboratory periods a week for men. Freshman women may select their laboratory section from the following:

## WOMEN

I. Folk and National Dancing (first semester) 1 credit.
II. American Square Dancing (second semester) 1 credit.
III. Tumbling, Stunts, and Apparatus (second semester) 1 credit.
IV.-V. Team Sports-Baseball, Hockey, Volley Ball, Basketball, Speedball (each semester) 1 credit.
VI. Beginning Swimming (first semester) 1 credit.
VII. Intermediate Swimming (second semester) 1 credit. (Permission of Instructor.)
VIII. Advanced Swimming (second semester) 1 credit.
IX.X. Modern Dance (either semester) 1 credit.
XI.-XII. Individual and Leisure Time Sports-Archery, Badminton, Table Tennis, Paddle Tennis, Deck Tennis, Tennis, Bowling, 1 credit.
XIII. Remedial Gymnastics (first semester) 1 credit.

45-46. Basic Course in Physical Education Practice. Each semester. 3 credits.
Men students majoring in Physical Education are required to take all laboratory sections provided for Hygiene 17-18. Women majors are required to take sections I-XIII given above.

## UPPER COLLEGE

103. Theory and Practice of Physical Education (for women). First semester. 3 credits.
Historical development, methods and practice in the teaching of apparatus, gymnastics, stunts and tumbling.
103-104. Theory and Practice of Physical Education (for men).
Each semester. 2 credits.
The purpose of this course is to develop personal technique and skill in presenting calisthenics, marching, and gymnastic activities; general lesson plans and teaching techniques suitable for elementary and secondary school programs.
[^9]105-106. Theory and Practice of Athletics. 2 credits for men and 3 credits for women each semester.
Interpretation of rules, techniques and practice in officiating in team and individual sports.
108. Theory and Practice of Dancing. Second semester. 3 credits.

History, theory and philosophy of dance as a creative art experience. Practice in rhythmical analysis and composition.
111. First Aid. 1 credit.

This is the standard American Red Cross course which gives instruction and practice in the immediate and temporary care of injuries and sudden illness.
112. Massage. Second semester. 1 credit.

Theory and practice in the scientific manipulation of the muscles as related to therapeutic exercise.
114. Theory and Practice of Swimming. Second semester. 2 credits.

Analysis of strokes and dives; methods and practice in the teaching of swimming.
115. Normal Diagnosis and Individual Corrective Gymnastics and Corrective Exercise. 2 credits.
A study of current theories and practices relating to the needs of physically handicapped children; particular emphasis is given to underlying philosophy, purpose, and administration.
118. School Health. 2 credits.

The purpose of this course is to acquaint students of education, teachers in service, and others interested, with the broad general nature of health problems in schools.
121-122. Organization and Administration of Physical Education. 2 credits.
A comprehensive study of the various aspects of the organization and administration of physical education programs.
124. Kinesiology. 2 credits.

This is a study of body movements from the standpoint of energy, leverage, angle positions, sequence and efficiency as applied to sports and working conditions.
125. Methods in Physical Education. 2 credits.

An analysis of the objectives and principles of physical education as related to the techniques of teaching; and a study of present-day trends through observation of methods in teaching physical education.
127. Applied Аnatomy. 3 credits.

This is a study of the structure of the architecture of the human body, specializing on the origin, insertion, action, innervation and blood supply of the important muscles of the body in relation to physical education and health.

## 128. APPLIED AWMEMY. 3 credils.

The purpose of this course is to study the general laws of life and the functional activity of tissues, organs and systems, learning what they can do and how they work in every day life.
131. Hygiene and Health Activities for Elementary Grades. 2 credits.

A survey of the hygiene and health factors which influence child development physically, mentally, and socially; methods and materials in teaching hygiene and health at the various age-levels.
132. Games for Elementary Grades. 1 credit.

Practical analysis of games and rhythms for the elementary school child in relation to child development at the various age-levels.
169. Organization and Administration of Industrial Recreation. 2 credits.
This is a lecture and discussion course of the following material: Health Education, Athletic Equipment, Noon-Hour Recreational Physical Activities, Programs of Activities, Programs of Games, Organization and Administration of Athletic Meets, and Industrial Athletic Organization.
170. Organization and Administration of Municipal Recreation. 2 credits.
This course will deal with subjects of Administration, Budgets, managements of Individual Playground, the neighborhood Recreation Center and Community Activities.

PSYCHOLOGY
Professor Hayes, Assistant Professor Twining, Dr. Witzeman, Mr. Somers GENERAL COLLEGE
*41. General Psychology. Either semester. 3 credits.
An introduction to the fundamental facts and principles which have resulted from scientific studies of normal human bebavior. Lectures, experimental demonstrations, and discussions. Fee 50c.
*42. Applied Psychology. Either semester. 3 credits.
Introductory survey of techniques used and results obtained by applied psychologists in their analyses of social and economic life. Such areas as business, education, clinical studies, home, industry, law and criminology, medicine, personnel problems, social change, and vocation are included.

## 51. Psychology for Nurses. 2 credits.

Designed to prepare prospective nurses to meet the psychological problems that will appear in their profession. The material covered will be the applications of psychology to specific hospital situations and public health nursing.
*52. Educational Psychology. Either semester. 3 credits.
Designed to prepare the prospective teacher or supervisor to guide the allround development of his students more efficiently. Concepts of growth, learning, adjustment, and individual differences are stressed. Some opportunity for the observation and study of children.
*62. Business Psychology. Second semester. 3 credits.
Specialized study of the development of psychological services to business and industry. Effective psychological principles for securing best results in employment situations; emphasis on efficiency and wholesome adjustment; treatment of industrial problems, and advertising and selling relationships.

## UPPER COLLEGE

*105. Child Psychology. 3 credits.
Prerequisite 41 . The normal child from birth to age 10 or 12 years; principles of child behavior and mental growth; observations of classes and on the playground.
*106. Psychology of Adolescence. 2 credits.
Prerequisite 42. Mental, physical and emotional changes during adolescence; educational and social problems of the adolescent; a better understanding of the age.

[^10]115. Psychology of Delinquency. 2 credits.

Analysis of the psychological factors found among the delinquents and the possible treatments.
*207. Mental Hygiene. Second semester. 3 credits.
Basic principles regarding the nature, development and organization of normal personality; emphasis on desirable adjustments to life's problems; techniques for diagnosing personality and treating minor maladjustments.
*208. Abnormal Psychology. 2 credits.
The transition from the normal to that of abnormal behavior; the possible underlying causes; visits to mental hospitals when possible.
"209. Social Psychology. First semester. 3 credits.
A study of the psychological responses of the individual in relation to the group situations and the social influences of modern life.
*210. Genetic Psychology. 3 credits.
Not offered in 1944-45. The principles of mental genesis through the levels of organic life; a comparison of the activities at various levels.

## GRADUATE COURSES IN PSYCHOLOGY

The prerequisite for graduate psychology courses is graduate standing or twelve credit hours of psychology for seniors who may be admitted to psychology courses at the 300 level.
*302. Advanced Social Psychology. Second semester. 2 credits.
Concepts and techniques involved in analyzing the behavior of individuals in such social phenomena as folkways, institutions, attitudes, propaganda, leadership, public opinion, and social morality.
303. Advanced Educational Psychology. First semester. 2 credits.

An analysis of the development of skills and knowledge; interests and ideals; problem solving and creative activity; social growth and character formation. Designed for teacher or supervisor.
*308. Psychology of Child Development. 2 credits.
The process of maturation of the human mind; the appearance of traits and their development; rather an organismic analysis of development.
315. Psychological Testing. 2 credits.

Principles of test construction and the theory and nature of measurement; emphasis on techniques of measurement in such areas as intelligence, special aptitudes, personality, and vocational interests. Fee $\$ 1$.
316. History of Psychological Thought. 2 credits.

Not offered in 1944-45. The evolution of methods and concepts of psychology with emphasis on the modern period.
317-318. Psychological Systems. 2 credits.
A survey of the various concepts into a working knowledge of psychol-
ogy.
425-426. Clinical Psychology. 2 credits each semester.
Not offered in 1944-45. Application of psychological techniques in the diagnosis and treatment of problem children, problems of child guidance in school and home. Fee $\$ 2$.

## 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, $\$ 5$ per credit hour.

## VOCATIONAL EDUCATION

Associate Professor Downing, Assistant Professor Dent, Mr. Mason, Miss Hamilton

Courses 101 to 106 inclusive are required for both the degree and state certification.
100. Introduction to Vocational Education. 1 credit.

A general pre-service course presented with the aim of furnishing immediate practical information for the beginning teacher.
101. Trade and Job Analysis. 2 credits.

The objective of this course is to identify the elements of the various trades to be taught.
102. Organization of Instruction Material. 2 credits.

Analysis developed in course 101 will be used as a basis for the construction of the course of study outline. Selection of functioning content will be stressed.
103. Methods of Teaching Occupational Subjects. 2 credits.

Careful consideration will be given to the common methods of teaching and to adapting them for use in vocational schools. Particular attention will be given to the psychology of the learning process.
104. Vocational Tests and Measurements. 2 credits.

Theory of testing, necessary terminology, analysis and interpretation of results and construction of tests to be used in the vocational school.
105. Shop Management. 2 credits.

How best to organize and manage a school shop. Shop planning, care of tools, shop routine. Course is largely conducted by the conference method.
106. Foreman Conference Leadership.* No college credit or 2 credits.

Follows techniques developed by the Federal Board.
Conference Method of Teaching.* 2 credits.
Planning, organizing, and conducting conferences. Each student will lead one or more conferences. Subjects chosen will be those of most interest to the group.
107. Educational and Vocational Guidance. 2 credits.

Development of theory, philosophy, and applications of guidance.
108. History and Philosophy of Vocational Education. 2 credits.

A tracing of the growth of vocational schools from their original roots in home craftsmanship. Guilds, trade unions, Smith-Hughes and succeeding laws, functioning content, placement, follow-up. Local responsibility.
109. Organization and Administration of Vocational Education.

2 credits.
Provisions of the national laws and their application to local schools.
110. Psychology Applied to Occupational Teaching. 2 credits.

Attention is directed toward a better understanding of the fundamental laws of learning and their application in mastering a trade together with its related science, mathematics, blue print reading, etc.

## 111. Industrial Relations. 2 credits.

This course is intended to point the way toward a better understanding of labor adjustments, personnel problems, and industrial psychology. Some of the basic underlying philosophy is given consideration.

- These coursea have the same basic content but emphasis is placed on factory situationa in the first and on teaching method in the second.

GRADUATE STUDY<br>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 | Biology |
| :--- | :--- |
| Music | Chemistry |
| Speech | Mathematics |
| Commerce | Physics |
| Economics | Education |
| History | Psychology |
| Political Science | Engineering |
| Sociology |  |

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 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 thesis and all requirements for the master's degree must be completed within one year after the major or minor examination has been passed.

The following fees must be paid at the time application for the degree is filed:

$$
\begin{array}{ll}
\text { Master's degree .................................................................................................. } & \$ 10.00 \\
\text { Thesis fee ......... } & \$ 1.50 \\
\text { Binding fee, approximately, a volume.... }
\end{array}
$$

Each candidate must pass final written and oral examinations covering the major and minor fields.

SUMMER SESSION<br>Leslie P. Hardy, M. S. Ed., Director

The Summer Session of 1944 is the third year of a continuous program of University work. This acceleration of activities was instituted in order that the University might adequately perform its functions in preparing men for war time activities and especially to enable those in technical curricula to meet in a shorter time the urgent need for trained men. By attending on a full time basis throughout the summer, it is possible for the student to finish the normal four year course in three full years of study. There is also the customary six-week summer term in connection with the longer session for the benefit of teachers and others who are unable to attend the twelve-week session.

The twenty-third annual Summer Session begins Monday, June 12. and closes Friday, September 1.

## 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 9, and Saturday, June 10. Attendance at all periods is required.

Students from other colleges should present a statement of good standing from the registrar of the institution last attended.

## EVENING CLASSES

An extensive program of classes both on the six-week plan and on the twelve-week semester plan is scheduled for those who work during the day. This program also permits the student working morning hours or late night hours to plan a schedule from the day and evening classes.

## 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.

## REGISTRATION

Registration for the 1944 Summer Session will be held in Buchtel Hall, Friday and Saturday, June 9 and 10. Any person registering after June 10 will be charged a late registration fee of $\$ 5$. Late registrants should report to the office of the Director.

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 9 or 10 , or by mail before these dates.

## FEES

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.

## THE SIX-WEEK TERMS



For hours in excess of a six-hour load $\$ 6.00$ per credit is charged, not subject to refund.

THE TWELVE-WEEK SESSION
Maintenance fee:
1 to 5 credit hours, per credit hour...................................... 6.00
6 or more credit hours................................................................................... 3500
Library Fee
Student
A.

Late Fee - ........................................................................................................... 50

Non-resident students who have been enrolled for the first Six-week Term and who register for the second Six-week Term will be charged on the basis of the schedule of charges that apply to enrolment for the Twelve-week Session.

## APPOINTMENT BUREAU

The Dean of the College of Education is chairman of the Appointment Bureau for Teachers. Summer Session students may enroll 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 $\$ 10$ 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 sub-
jects 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 1944, Summer Session for diplomas should file application in the Registrar's office the first week of the Summer Session. A fee of $\$ 2$ will be charged. Those expecting to receive a degree at the end of the Summer Session must make application by August 1 and pay a $\$ 5$ fee.

## HIGH SCHOOL CERTIFICATES

One who has trained in a special field 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 $\qquad$ .2 semester hrs. Special methods in an academic major or minor. 2 semester hrs. Student teaching in the high school academic field .2 semester hrs.

## ELEMENTARY SCHOOL CERTIFICATES

In view of the fact that many who train for secondary school 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 $\qquad$ 6 semester hours
Practice teaching in the elementary field ........ 2 semester hours
Music in the grades 2 semester hours
Art in the grades
$\qquad$
Health Education in the grades 2 semester hours 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: Chemistry, Commerce, Economics, Education, English, History, Mathematics, Psychology, Sociology, Speech, Music, and Engineering.

## A KINDERGARTEN OBSERVATION WORKSHOP

A Kindergarten Workshop will be conducted during the first three weeks of the Summer Session. First hand experiences in play materials, songs and games, rhythms, and literature will be provided in the workshop.

The workshop should be equally helpful to teachers in service and to prospective teachers. Opportunities will be offered for observation of a kindergarten during the first six weeks of the Summer Session. The kindergarten will be a part of the regular annual Summer Activity School.

## NURSES TRAINING PROGRAM

Although this program is planned in co-operation with the City Hospital, Peoples Hospital, and St. Thomas Hospital, specifically to serve the local hospitals, the courses all carry college credit and are scheduled as an integral part of the Summer Session program. During the 1944 Summer Session the University will also co-operate with the Aultman hospital in Canton, Ohio.

Students may secure additional information from the training director of the hospital of their choice or the Summer Session Office.

All applications for admission will be handled through the hospital training directors.

Prerequisites for admission are as follows:
A certificate of preliminary education secured from the Ohio State Nurses' Board which must be filed by each prospective candidate for the individual schools of nursing at one of the three hospitals.

This certificate is issued on the basis of graduation from a high school of the first grade. The minimum requirements for entrance to an accredited school of nursing in the State of Ohio are stated as follows: English, three units; Mathematics, one unit; Social Studies, two units (One unit to include American history and government) ; Science with Laboratory, two units (Chemistry is recommended but not demanded).

STUDENT NURSES SCHEDULE OF CLASSES
(All classes continue for twelve weeks)

| Anatomy \& Physiology 31..................... | Lec. A | M.W.F. | 8:50-10:00 |
| :---: | :---: | :---: | :---: |
| Anatomy \& Physiology 31..................... | Lab.a | M.W. | 10:10-12:40 |
|  | Lab. b | M.W. | 2:20-4:50 |
|  | Lab.c | Th.S. | 10:10-12:40 |
|  | Lab. d | T.F. | 10:10-12:40 |
| Chemistry 25....................................... | Lec. A | T.Th.S. | 10:10-11:20 |
|  | Lec. B | M.W.F. | 1:00-2:10 |
|  | Lec. C | M.W.F. | 7:30-8:40 |
|  | Lec. D | T.Th. | 1:00-2:10 |
|  |  | S. | 7:30-8:40 |
|  | Lab. a | F. | 10:10-12:40 |
|  |  | S. | 8:50-10:00 |
|  | Lab. b | F. | 2:20-4:50 |
|  |  | S. | 11:30-12:40 |
|  | Lab.c | M. | 2:20-4:50 |
|  |  | T. | 1:00-2:10 |
|  | Lab. d | M. | 10:10-12:40 |
|  |  | W. | 2:20-3:30 |
| Micro-Biology 33................................ | Lec. A | T.Th. | 8:50-10:00 |
|  | Lab. a | W. | 2:20-4:50 |
|  | Lab. b | F. | 2:20-4:50 |
|  | Lab. c | M. | 10:10-12:40 |
|  | Lab. d | W. | 10:10-12:40 |
|  | Lab. e | S. | 8:50-11:20 |
|  | Lab. f | M. | 2:20-4:50 |
|  | Lab.g | Th. | 10:10-12:40 |
|  | Lec. A | T.Th. | 11:30-12:40 |
|  | Lec. B | T.Th. | 7:30-8:40 |
|  | Lab. a | M. | 2:20-4:50 |
|  | Lab. b | W. | 2:20-4:50 |
|  | Lab. c | $\stackrel{5}{5}$ | 8:50-11:20 |
|  | Lab. d | F. | 10:10-12:40 |
|  | Lab. e | F. | 2:20-4:50 |
| Psychology 51............................................ | Lec. A | T.Th. | $3: 40-4: 50$ |
| Sociology 21......................................- | Lec. A | T.Th. | 2:20-3:30 |

## 1944 CLASS SCHEDULE

Classes marked with an asterisk ( ${ }^{*}$ ) meet in the evening.
Terms or session are indicated in the first column as follows:
12 Class continues for full 12 weeks.
6 Class meets first 6 weeks only.
6-6 Class can be taken either first 6 weeks, continue through 12 weeks, or be taken last 6 weeks if student has had the first 6 weeks of work previously.
6 Class meets second 6 weeks only.

| Session | Course | Prerequisite | Days | Time |
| :---: | :---: | :---: | :---: | :---: |
| ART |  |  |  |  |
| 6-6 | Art Appreciation 29-30.................. | 2.2 | M.T.Th.F. | 10:10-11:20 |
| 6.6 | Drawing and Rendering 45-46........ | 2-2 | M.T.Th.F. | 7:30-10:00 |
| 6-6 | Still Life 47-48 $1 / 2 \ldots \ldots-{ }^{\text {a }}$ - | 2-2 | M.T.Th.F. | 1:00-3:10 |
| 6-6 | Occupational Therapy 101-102........ | 2-2 | M.T.Th.F. | 10:10-12:40 |
|  | Weaving 106 ....-.......................... | 2 | M.T.Th. | 6:20-9:10 |
| BIOLOGY |  |  |  |  |
| 12 | Anatomy \& Physiology 31 (Nurses) | 5 |  |  |
| 12 | Microbiology 33 (Nurses) ............. | 3 |  |  |
| 12 | Conservation 82 .-...............--.......- | 3 | M.W.F. | 10:10-11:20 |
| 6-6 | Field Botany 113-114...................... | 3-3 | M.T.W.Th.F. | 7:30-10:00 |
| CHEMISTRY |  |  |  |  |
|  | Chemistry (Beginning) 21-22. | 4-4 | M.T.Th.F. | 1:00-2:10 |
|  | and lab. |  | M.T.Th.F. | 7:30-10:00 |
| 12 | Chemistry 25 (Nurs | 4 | and W. | 7:30-11:20 |
| 12 |  | -44 | M.W. | 10:10-11:20 |
|  | - and lab. |  | T.Th. | 7:30-10:00 |
| *12 | Chemical Calculations 118............. | 43 | T.Th. | 6:20-8:40 |
| COMMERCE |  |  |  |  |
| 12 | Accounting 21 (Beginning) ...-........ | 3 | T.Th.S. | 10:10-11:20 |
|  |  |  | and Sat. | 11:30-12:40 |
| 12 | Business Law 141 | 3 | M.W.F. | 10:10-11:200 |
| 12 | Business Finance 279 .-......-. | 3 | T.Th.S. | 8:50-10:00 |
| ${ }^{*} 12$ | Economic Geography 54 .............. | 3 | M.W. | 6:20-8:05 |
| ECONOMICS |  |  |  |  |
| 12 | Production Prices \& Income 41...- | 3 | T.Th.S. | 8:50-10:00 |
| 12 | Money \& Banking 48.................... | 3 | M.W.F. | 8:50-10:00 |
| 6 | Economics of Consumption 82,.....- | 3 | Daily | 10:10-11:20 |
| *12 | Labor Problems 106 ...-..........- | 3 | M.W. | 8:10-9:55 |
| EDUCATION |  |  |  |  |
| 6 | Handicrafts 41 | 1,2 or 3 | Daily | 8:00-12:00 |
| 12 | Introduction to Education 55-........- | 3 | M.W.F. | 11:30-12:40 |
| 6 | Introduction to Aviation 69...--.....- | 3 | Daily | 7:30-8:40 |
| 12 | Principles of Geography 71....-........ | 3 | T.Th.S. | 7:30-8:40 |
| 6 | Geography of Asia.............- | 3 | Daily | 10:10-11:20 |
| 6 | Activity School 101 | 3 | Daily | 7:30-8:40 |
| 6 | Educational Tests \& Meas. 105........ | 2 | M.T.Th.F. | 10:10-11:20 |
| 12 | High School Methods 113.............- | 3 | M.W.F. | 8:50-10:00 |
| 6 | School Management 115............- | 2 | Daily | 2:20-3:30 |
| 6 | Observation ...-............ | 1 | Daily |  |
| 6 |  | 3,4 or 6 | Daily |  |
|  | Kindergarten Education 129. | 3 | Daily | 8:50-10:00 |
| 6 | Science in the Ele. Grades 133........ | 3 | Daily | 10:10-11:20 |


| Session | Course | $\begin{gathered} \text { Prerequisite } \\ \text { Cr. } \end{gathered}$ |  | Days | Time |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6 | Teaching of Reading 135 |  | 3 | Daily | 10:10-11:20 |
| 6 | Teaching of Arithmetic 136-1.....-- |  | 2 | Daily | 8:50-10:00 |
| 6 | Teaching of Social Studies 138_-...- |  | 2 | M.T.Th.F. | 10:10-11:20 |
| 6 |  |  | 1 | Daily | 1:00-3:00 |
| 12 |  | $\text { aly } 3 \text { to }$ | 3 | M.W.F. | 1:00-2:10 |
| Graduate education |  |  |  |  |  |
| 6 | Activity School 303 |  | 3 | Daily | 7:30-8:40 |
| 6 | Public School Administration 321_ |  | 2 | M.T.Th.F. | 10:10-11:20 |
| 6 | Philosophy of Education 323....-..-- |  | 2 | M.T.Th.F. | 10:10-11:20 |
| ENGINEERING |  |  |  |  |  |
| 12 | English 2 (Engineering) ..... |  | 3 | T.Th.F. | 8:50-10:00 |
| 12 | Engineering Drawing 21....... |  | 2 | M.W.F. | 10:10-12:40 |
| 12 | Engineering Drawing 22....-.........M |  | 2 | M.W.F. | 1:00-3:30 |
| 12 | Machine Drawing 23......................M | E-22 | 2 | M.W.F. | 1:00-3:30 |
| 12 | Surveying 21-22 .-.---....... |  | 2 | T.Th. | 1:00-4:00 |
|  | , and lab. |  |  | M.W. | 1:00-4:00 |
| 12 | Heat Power Engineering 46, Phys. | 43 | 3 | M.W.F. | 10:10-11:20 |
| 12 | Shop Practice 49 |  | 2 | T.Th.S. | 8:50-11:20 |
| 12 | Hydraulics 184 -.----...............Math. | 46 | 3 | M.W.F. | 8:50-10:00 |
| 12 | Mech. Eng. Lab. 183 ...-...........-ME | 182 | 3 | T.F. | 1:00- 4:50 |
| 12 | El. of Elec. Engr. 124................-EE | -123 | 3 | M.W. | 11:30-12:40 |
|  | and lab. |  |  | Th. | 1:00-4:50 |
| 12 | E1. and Magnetism 125...-....-...EE | 124 | 3 | T.Th. | 7:30-8:40 |
|  | (C. 130131 and lab. |  |  |  | 8:50-12:40 |
| 12 | A.C. Circuits 130-131 ....-...........E | 125 | 3 | M.W.F. | 7:30-8:40 |
| 12 | Elec. Tube. Applications 151........EE | -150 | 2 |  | 1:00- 5:00 |
| *12 | Engineering Drawing 22 ................. | 21 | 2 | M.W.F. | 6:40-9:00 |
| *12 | Industrial Processes, 22 ................... |  | 2 | M. | 8:10-10:10 |
| ENGLISH |  |  |  |  |  |
| 12 | English 1a .................................... |  | 3 | M.W.F. | 7:30-8:40 |
| 12 |  | 1 | 3 | T.Th.S. | 7:30-8:40 |
| 12 | Appreciation of Poetry 46.........-- | 2 | 3 | T.Th.S. | 8:50-10:00 |
| 12 | Appreciation of Prose 45...............- | 2 | 3 | M.W.F. | 8:50-10:00 |
| 12 | English Literature 110 |  | 3 | M.W.F. | 10:10-11:20 |
| ${ }^{4} 12$ | English 2 | 11 | 3 | T.Th. | 6:20-8:05 |
| 12 | XVIIIth Century Literature 104....- | 2 | 3 | M.W.F. | 8:50-10:00 |
| HISTORY |  |  |  |  |  |
| 12 | American History 41 |  | 3 | M.W.F. | 8:50-10:00 |
| 12 | United States History (1865-1900) | 223 | 3 | T.Th.S. | 8:50-10:00 |
| 12 | Latin American History ....-............ |  | 3 | M.W.F. | 10:10-11:20 |
| HOME ECONOMICS |  |  |  |  |  |
| 12 | Foods 43 (Nurses) ...................... |  | 3 |  |  |
| 12 | Dietetics 119 -............................... |  | 3 | M.W.F. | 1:00-2:20 |
| 6 | Field Work 121 ...-.............--....... | Srs. | 3 |  |  |
| 6 | Institutional Management 212 ........ |  | 3 | M.W.F. | 8:50-10:00 |
|  | Quantity Cookery 216 |  | 3 |  |  |
| *6 | Selection of House Furnishings 118 |  | 3 | M.W. | 6:20. 8:05 |
| INTRODUCTORY COURSES |  |  |  |  |  |
| 12 | Intro. to Social Science 5...............- |  | 3 | T.Th.S. | 10:10-11:20 |
| 12 | Intro. to Humanities 8.................... | 7 | 3 | T.Th.S. | 8:50-10:00 |
| 12 | Intro. to Natural Science 9-..-- |  | 3 | M.W.F. | 11:30-12:40 |
| 12 | Intro. to Hygiene 18 (Men) ....- |  | 1 | T. | 8:50-10:00 |
| 12 | Intro. to Hygiene 18 (Women)....- |  | 2 | T.Th. | 8:50-10:00 |
| *12 | Intro. to Social Science 6................ |  | 3 | T.Th. | 8:10-9:55 |


| Session | Course |  | xequisite $\mathbf{C r}$ | Days | Time |
| :---: | :---: | :---: | :---: | :---: | :---: |
| JOURNALISM |  |  |  |  |  |
| 12 | News Writing 51 ............................ |  | 3 | M.W.F. | 8:50-10:00 |
| 12 | Editing 153 .................................. |  | 2 | M.W.F. | 10:10-11:20 |
| LATIN AND GREEK |  |  |  |  |  |
| 6 | Latin Masterpieces 152 .................. |  | 3 | T.Th.S. | 11:30-12:40 |
| 6 | Classical Mythology $99 . . . . . . . . . . . . . . . .$. |  | 3 | T.Th.S. | 11:30-12:40 |
| MATHEMATICS |  |  |  |  |  |
| 12 | Algebra 21a ....-.......-..................... |  | 3 | M.W.F. | 8:50-10:00 |
| 12 | Algebra 21b --............................. |  | 3 | M.W.F. | 2:20-3:30 |
| 12 | Trigonometry 22 ............................ |  | 3 | T.Th.S. | 10:10-11:20 |
| 12 |  | 22 | 3 | M.W.F. | 8:50-10:00 |
| 12 | Calculus 45 ..................--............... | 22 | 3 | M.W.F. | 10:10-11:20 |
| 12 | Calculus 46 | 45 | 3 | M.W.F. | 8:50-10:00 |
| *12 | Algebra 21 ..--...................-...-...... |  | 3 | T.Th. | 6:20-8:05 |
| ${ }^{*} 12$ | Trigonometry 22b .--..........-.-----.... |  | 3 | M.W. | 6:20-8:05 |
| *12 | Analytics 43 --.....-......-....--......... | 22 | 3 | M.W. | 8:10-9:55 |
| MILITARY SCIENCE |  |  |  |  |  |
| 12 | ROTC 1la ..................................... |  | 2 | M.T.W.Th.F. | 3:40-5:00 |
| 12 |  |  | 2 | M.T.W.Th.F. | 7:20-8:40 |
| 12 | ROTC 12 | 11 | 2 | M.T.W.Th.F. | 11:30-12:50 |
| 12 | ROTC 43 ...--...--.........-................- | 12 | 2 | M.T.W.Th.F. | 11:30-12:50 |
| MODERN LANGUAGES |  |  |  |  |  |
| 12 | Spanish 21 |  | 4 | M.T.W.Th.F. | 10:10-11:20 |
| 12 | Advanced Spanish 103 ....---....---.... | 44 | 3 | M.W.F. | 8:50-10:00 |
| *12 |  | 21 | 4 | T.Th. | 8:10-9:55 |
| *12 | Spanish 43 ...--..................- | 22 | 3 | T.Th. | 6:20-8:05 |
| MUSIC |  |  |  |  |  |
| 6 | Music Orientation $21 . . . .-._{\text {-...........- }}$ |  | 2 | M.T.Th.F. | 7:30-8:40 |
|  | Art of Music 22 |  | 2 | M.T.Th.F. | 7:30-8:40 |
| 12 | Theory I (Harmony) 41...-- | 21 | 5 | M.T.Th.F. | 10:10-11:20 |
| 6 | Primary Music Education 121...-... |  | 5 | M.T.Th.F. | 1:00-2:10 |
|  | Secondary Music Education 123...- |  | 2 | M.T.Th.F. | 1:00-2:10 |
| 12 | Music Research 201 ...-. |  | 2 or 3 |  |  |
| ${ }_{12}^{6-6}$ | Philosophy of Music 311-312....-......- |  | 2.2 | M.T.Th.F. | 2:20-3:30 |
| Cello, Brass and Woodwinds, Organ, Piano, Violin, Voice |  |  |  |  |  |
|  |  |  |  |  |  |
| *12 | Orchestra --- |  | 1 | W. | 8:10-9:55 |
| *12 | University Singers ....-...--...-....... |  | 1 | Th. | 8:10-9:55 |
| PHILOSOPHY |  |  |  |  |  |
|  | Intro. to Philosophy 55................. |  | 3 | Daily | 10:10-11:20 |
| 6 | Logic 104 ....-...-........................ |  | 3 | Daily | 11:30-12:40 |
| PHYSICAL EDUCATION |  |  |  |  |  |
| 12 | Hygiene Lab. (Men) .................... |  | 2 | T.Th. | 1:00-3:20 |
| 12 | Hygiene Lab. (Women) ................ |  | 1 | M. | 1:00-3:20 |
| $12$ | Hy. \& Health Act. 131-132 <br> (Ele. School Games) |  | 3 | T.Th.F. | 1:00. 2:10 |
| 12 | Org. \& Adm. of Phys. Educa. 122 |  | 2 | T.Th. | 7:30-8:40 |
| 6 | First Aid 111...--.........-......---.... |  | 1 | M.W. | 7:30-8:40 |
| 6 | Anatomy 127 ................................. |  | 3 | Daily | 11:30-12:40 |


| Session Course | $\begin{gathered} \hline \text { Prerequisite } \\ \text { Cr. } \end{gathered}$ |  | Daya | Time |
| :---: | :---: | :---: | :---: | :---: |
| PHYSICS |  |  |  |  |
| 12 Physics 21 |  | 4 | T.Th. | 8:50-10:00 |
| and lab. |  |  | T.Th. | 10:10-12:40 |
| 12 Physics 22 .................................... | 21 | 4 | M.W. | 7:30-11:20 |
| 12 Physics 44 ...-- la to...-....... | 22 | 4 | T.Th.S. | 7:30-8:40 |
| 12 Physics (Optics) 53 .......... |  | 4 | M.W.Th. | 1:00-2:10 |
| and lab. |  |  | M. | 2:20-4:50 |
| 12 Physics 209-210 .............-...-_-... |  | 4 |  |  |
| POLITICAL SCIENCE |  |  |  |  |
| 6 American Government $41 . . . .-\ldots . . . . .$. |  | 3 | Daily | 11:30-12:40 |
| 6 American Government 42....--..-...- |  | 3 | Daily | 11:30-12:40 |
| 12 American Diplomacy 44...-............ |  | 3 | T.Th.S. | 10:10-11:20 |
| PSYCHOLOGY |  |  |  |  |
| 12 General Psychology 41 .........-.....- |  | 3 | M.W.F. | 10:10-11:20 |
| 12 Psychology 51 (Nurses)...-_-........ |  | 3 |  |  |
| 6 Educational Psychology 52..........- | 41 | 3 | Daily | 8:50-10:00 |
| *12 General Psychology 41.................. |  | 3 | M.W. | 8:10-9:55 |
| *12 Applied Psychology 42-...-.......... | 41 | 3 | M.W. | 6:20-8:05 |
| PSYCHOLOGY - GRADUATE |  |  |  |  |
| 6 Advanced Social Psy. 302.............. |  | 2 | M.W.F. | 8:50-10:00 |
| 6 Psy. of Child Development 308........ |  | 2 | M.W.F. | 8:50-10:00 |
| SECRETARIAL SCIENCE |  |  |  |  |
| 12 Secretarial Procedure 21.............. |  | 3 | M.W.F. | 1:00-2:10 |
|  |  | 3-3 | Daily | 8:50-10:00 |
| 6-6 Typewriting 51-52 .-.-.-.-.-.-............ |  | 3-3 | Daily | $7: 30-8: 40$ $10: 10-11: 20$ |
| 6.6 Adv. Short. \& Transcription 63.64 |  | 4-4 | Daily | 7:30-8:40 |
| *12 Shorthand 42 | 41 | 3 | T.Th.F. | $10: 00-11: 20$ $8: 109: 55$ |
| *12 Typewriting 52 -...-- | 51 | 3 | T.Th.F. | 6:20-8:05 |
| *12 Intermediate Dictation $84 \ldots$ | 83 | 3 | T.Th.F. | 6:20-8:05 |
| SOCIOLOGY |  |  |  |  |
| 12 General Sociology 41 -....-............ |  | 3 | T.Th.S. | 8:50-10:00 |
| 12 Sociology 21 (Nurses) --............. |  | 3 |  |  |
| 6 Modern Special Problems 43-........ |  | 3 | Daily | 7:30-8:40 |
| 12 Sociology Seminar 110................... | Srs. | 2 |  |  |
| 12 The Family 204 Field Work 112 --...................- |  | $3{ }^{3} 6$ | M.W.F. | 8:50-10:00 |
| 12 Field Work 112 .-.-...--...-............ |  | 3 or 6 |  |  |
| SPEECH |  |  |  |  |
| 12 Public Speaking 41 -........-......... |  | 3 | T.Th.S. | 7:30-8:40 |
| 12 History of the Theatre 167............ |  | 3 | M.W.S. | 11:30-12:40 |
| 12 Radio Speaking 181............--... |  | 3 | T.Th.S. | 10:10-11:30 |
| 6 Fundamentals of Speech 76.........- |  | 3 | Daily | 11:30-12:40 |
| 6 Speech Correction 271-.......-...... |  | 2 | M.T.Th.F. | 10:10-11:20 |
| *12 Public Speaking 42 ..........-...-- | 41 | 3 | M.W. | 6:20-8:05 |
| VOCATIONAL EDUCATION |  |  |  |  |
| ${ }^{* *}$ * Shop Management 105............-- |  |  | Daily | 8:50-12:00 |
| ** His. \& Phil. of Voc. Educa 108....- |  | 2 | Daily | 6:20. 8:05 |

[^11]
# THE DIVISION OF ADULT EDUCATION 

Leslie P. Hardy, M.S. Ed., Director

Harry K. Foster, Ph.D., Assistant Director
Ernest A. Tabler, M.A., Assistant 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.

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 $1944-45$ are: First Semester-Friday and Saturday, September 22 and 23, 1944. Second Semester-Friday and Saturday, February 2 and 3, 1945. 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 must 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 classe3 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 Engineering course of study are required to present 149 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.

## WITHDRAWALS

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 for withdrawal and adjustment of fees may be made in the office of Adult Education.

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 of this catalog.

## 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 <br> Elementary $\qquad$ | Elementary $\qquad$ Miss Clara Kemler Mr. H. W. Distad |
| :---: | :---: |
|  |  |
|  | Mrs. Jane S. Barnhardt |
| retarial Science | - Mr. H. M. Doutt |
| Commerce | Mr. H. T. Mr. McKee |
| atio | Mr. Downing |
| sical Ed | 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 count them in this way 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 courses which are being offered this year at the University and which will be acceptable in meeting these requirements.

## STUDENT ACTIVITIES

The Student Council of the Evening Session 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.

## 1943-44 CLASS SCHEDULE

Note: 1-2 Course continues through the year.
1.2. Course is repeated second semester.



## 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 several colleges and divisions.

## 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 Daniel Guggenheim Airship Institute does testing and research investigations for the local industries.

## 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 diagnosing 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. This plan is not in operation at the present time.

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.

## CO.OPERATION WITH THE LOCAL HOSPITALS

By special arrangement with the local hospitals in their war effort, courses are offered to nurses in training who are graduates of accredited high schools. The work carries regular college credit and is acceptable toward a degree. The following courses are given: Anatomy and Physiology, Chemistry, Microbiology, Nutrition and Foods, Psychology, and Sociology.

## 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. In addition it serves as a cqmmercial laboratory for those concerns which do not have testing equipment or personnel of their own and in cases in which this service does not duplicate facilities already existing.

## 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. Facilities are provided for research work on the part of some of the surgeons of the city. Lectures and informal talks have been given to organizations in Akron. 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. These are not awarded during the war emergency.

The University has entered into a contract with the Rubber Reserve Company for conducting a research problem in synthetic rubber under the direction of the office of the Rubber Director.

## 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, as well as consumer and trade studies of a community nature which are extensively used. The work in the field of automobile tire distribution and market statistics has become widely known and accepted.

## DEPARTMENT OF HOME ECONOMICS

The Home Economics department has assisted with radio programs on nutrition, food conservation, and dental health by providing speakers for city-wide social service programs, for city and county nutrition programs by student demonstrations, and exhibits on foods and nutrition for organizations. Laboratory work in child care and development was carried on in the municipal housing child centers.

## DEPARTMENT OF SOCIOLOGY

The Department of Sociology has active affliations with the Boy Scouts, Catholic Service League, City Hospital, United War Chest, Department of Public Charities, Family Service Society, Girl Scouts, Jewish Center, Jewish Social Service Federation, Juvenile Court, Metropolitan Housing Authority, Summit County Children's Home, Y. M. C. A., Y. W. C. A., Detention Home and Day Nurseries. These institutions and agencies provide the supervised training for the students who are actively interested in entering the profession of social welfare work or in character building and United War Chest agencies.

The census tract maps for the City of Akron are under the direct supervision of the department of sociology. Surveys and specially 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

The Speech Clinic is under the direction of members of the Speech Department faculty. Anyone in Akron is privileged to come to the Clinic for advice concerning speech defects. Remedial training is offered to a limited number. Advanced students assist with the work of the clinic.

The Speakers' Bureau furnishes speakers, debaters, and discussion panels to local groups. A number of one-act plays are also available.

The department prepares and produces radio programs of an educational nature.

All faculty members of the department are enrolled in the Speakers' Bureau of the Civilian Defense organization.

## THE DIVISION OF ADULT EDUCATION

The Division of Adult Education offers credit and non-credit courses in evening classes.

In the Community College, Goodrich Institute, and ESMWT programs, non-credit classes are arranged to meet the needs of many persons who want practical training for a particular vocation or avocation. The Community College classes are conducted on a twelve-week basis on the campus during each semester with an enrolment fee of $\$ 6$ per course. Organized on a twelve-week basis, Goodrich Institute classes were offered during the academic year 1943-44 at the B. F. Goodrich Company, with
an enrolment fee of \$4. The Engineering, Science, and Management War Training classes are offered without fee in co-operation with the United States Office of Education, Washington, D. C.

The Division of Adult Education has co-operated with departments of the University in sponsoring 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 program. Each class meets once a week for twelve weeks.

Classes held during the first semester of 1943-44 were: Shop Mathematics; Psychology of Personality; Archaeology and the Bible; Gregg Speed Writing.

Classes held during the second semester of 1943-44 were: Blue Print Reading, Beginning Chinese, Conversational Spanish, the American Jewish Community, Recent European Writers, Steam Engineering. In addition, a one session class in Income Tax Returns was offered free of charge.

|  | Enrolment |  |
| :---: | :---: | :---: |
|  | First Semester | Second Semester |
|  | 1943-1944 | 1943-1944 |
| Community College | 52 | 162 |
| Goodrich Institute | 51 | 67 |
| No fee classes .-...................................................... |  | 30 |
| Total | 103 | 259 |

## Engineering, Science, and Management War Training

The University of Akron has co-operated to the fullest with the United States Office of Education in sponsoring War Training classes.

From January, 1941, to September 30, 1941, the program was identified as Engineering, Defense Training. During this period of time the University offered classes to 605 students.

From July, 1941 to September 30, 1942, the program was designated as Engineering, Science, and Management Defense Training. This program served 3,467 persons in Akron War Industries.

From July, 1942 to September 30, 1943, Engineering, Science, and Management War Training served 3,009 persons.

For the six month period June 1, 1943 to December 31, 1943, the total enrolment for the program at the University of Akron ranked first in Ohio. The current enrolment for the Engineering, Science, and Management War Training 1943-44 program is 1,860 as of February l, 1944.

A list of courses and the enrolment for each subject for the period September 1, 1943 to February 1, 1944 follows:
Applied Engineering Math., Inservice .......................................................... 81
Chemical Engineering for Production Supervision -_...................................... 15
Elementary Production Supervision .......................................................................... 183
Engineering Physics, Inservice _............................................................................. 31
Human Problems in Production Supervision ....................................................... 63
Inspection and Testing of Materials ................................................................ 58
Motion Study—Work Simplification ...................................................................... 31
Plastics in Engineering ........................................................................................... 23
Pre-Engineering Mathematics _-................................................................................ 45
Time Study ...................................................................................................................... 52
Tool Engineering ..................................................................................................... 66
Adv. Inspection and Testing of Materials ............................................................. 16
Manufacturing Inspection of Airships, Airplanes ........................................... 48
Radio Technology I -.................................................................................................... 50
Strength of Materials ................................................................................................ 21
Personnel Management ................................................................................................ 31
Structural Analysis and Design ............................................................................ 32
Production Management and Control ............................................................... 32
Advanced Engineering Mathematics ........................................................................ 18
Analysis of Frames and Rings ............................................................................ 25
Airplane Performance …....................................................................................... 22
Stress Analysis as Applied to Structural Design .................................................. 18
Aerodynamics .............................................................................................................. 15
Fundamentals of Industrial Safety ......................................................................... 38
Airship and Airplane Instruments, Theory \& Design -....-............................... 60
Advanced Production Supervision ........................................................................ 910
Advanced Industrial Supervisional Problems ..................................................... 254
Mechanics-Statics and Design ................................................................................ 18
Industrial Psychology ............................................................................................... 44
Inspection of Rubber Processing ............................................................................ 23

Supervising Women Workers .................................................................................... 16
Radio Technology II ............................................................................................... 29
Engineering Calculus I ............................................................................................. 19
Psychology of Supervision -............................................................................ 20

## 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. Three contests during the year are held, an Upper College Contest, a General College Contest, and an Interpretative Reading Contest. The amounts of the prizes awarded at each contest depend 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

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.

## 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 American colleges and universities and are of the value of $\$ 1000$ per year, with remission of all University fees. Not awarded during the war emergency.

## 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.

## AKRON COLLEGE CLUB PRIZES

The women students having the highest scholastic average in each of these three departments, elementary education, home economics, and secretarial science will be awarded a twenty-five dollar War Bond. The award will be announced at the June Commencement.

## 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, a student must have a quality point ratio of at least 2 in all work taken; in the field of the award, the quality of scholarship is expected to be much higher. Applications for scholarships should be addressed to the Registrar. Members of the committee are: Mr. R. H. Schmidt, Chairman; Dean Bulger, Dean Distad, and Mrs. Keating.

## 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. Not awarded during the war emergency.

## HONORARY FRATERNITIES

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 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 heen 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.

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.

KAPPA DELTA PI, an Honor Society in Education, has for its purpose the encouragement of professional, intellectual, and personal standards. The Society is an international organization composed of a Laureate Chapter, honorary, and institutional and alumni chapters, active. Alpha Theta Chapter was chartered in 1925. Candidates for membership must be juniors, must have earned six semester hours in professional subjects, or eleven hours if of senior rank, and have a quality point average in all work of 3 when $A$ equals four.

SIGMA PI EPSILON is an honor fraternity established for the purpose of promoting scholarship, citizenship, and artisanship among the students of the College of Education. Students being graduated with distinction automatically become members of the fraternity.

PHI ETA SIGMA is a national honorary fraternity for freshman men. Its purpose is to recognize superior scholarship, and to encourage academic achievement. Men are pledged twice each year, in March and in September. To be eligible for pledging, a man must have a quality point ratio of 3.5 or better (half A's, half B's) for his first semester, or for his first year.

ALPHA LAMBDA DELTA. Alpha Lambda Delta is a national honorary fraternity for freshman women. Its purpose is to recognize scholastic attainment during the freshman year at college and to encourage academic achievement among freshman women. To be eligible for pledging a woman must make a quality point ratio of 3.5 (half A's, half B's) or better for her first semester or for her first year.

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.

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.

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 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.

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.

HOMER C. CAMPBELL FUND
A fund established under the will of the late Homer C. Campbell provides for assistance by loan or gift from its income to needy students dependent on their own resources. Preference is given to young men who have been newsboys in Akron.

AKRON HOME AND SCHOOL LEAGUE LOAN FUND
This fund was established in 1925. Loans are made from this fund to Juniors and Seniors of the University to be repaid following graduation. The fund is administered by the League. Applicants are required to have the approval of the University.

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.

## RICHARD J. WITNER LOAN FUND

A fund has been established by the parents and wife of Captain Richard James Witner, who was killed in action in North Africa on March 28, 1943. The principal of this fund is to be used for loans, payable after graduation, to worthy students to finance their education.

## 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.

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. This fund is administered by a committee of the College Club. Applicants are required to be recommended by the University.

## 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 aid, ing 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.

## TOUCHDOWN CLUB LOAN FUND

This fund was created by the Touchdown Club to provide financial aid through loans to young men of superior athletic ability and good academic standing. Recommendations of the Director of Athletics to the Loan Committee is required of applicants. This fund was established in 1942 and additions have been made to it from time to time.

## HERMINE Z. HANSEN LOAN FUND

A trust fund, established under the will of the late Hermine Z. Hansen, provides for a share of the distribution of its income to be used for the benefit of needy and deserving students, while attending the University. At the discretion of the trustees of the fund, money is available through loans to needy students for purposes which will assist in completing their studies. Repayments are returned to the income of the trust fund.

## SUMMARY OF STUDENTS IN DAY CLASSES 1943-44

## BUCHTEL COLLEGE OF LIBERAL ARTS

|  | Men | Women | Total |
| :---: | :---: | :---: | :---: |
| Graduate Students | 13 | 20 | 33 |
| Humanities Division ........................... | 7 | 14 | 21 |
| Social Science Division |  |  |  |
| Commerce ...................................... | 10 | 5 | 15 |
| Sec. Science .-...........-.------........... | 1 | 23 | 24 |
| Others | 11 | 32 | 43 |
| Natural Science Division | 16 | 13 | 29 |
| Misc. (no majors) | 5 | 2 | 7 |
| Irregular Students | 10 | 12 | 22 |
|  | 73 | 121 | 194 |

## COLLEGE OF ENGINEERING

Graduates

| 45 | $\cdots$ | 45 |
| :---: | :---: | :---: |
| 2 | --.. | 2 |
|  | .... |  |
| 47 | .... | 47 |



THE GENERAL COLLEGE

| New Freshmen |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Regular Students ...........-.-.............. | 189 | 260 | 449 |  |
| Irregular Students | 7 | 12 | 19 |  |
| Others |  |  |  |  |
| Regular Students ........................... 79 210 289 |  |  |  |  |
| Irregular Students .......................... 14 15 15 |  |  |  |  |
|  | 289 | 497 | 786 | 786 |
|  |  |  |  | 1169 |
| Summer Session 1943 (Included in above) | 305 | 316 | 621 |  |

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. For the summer session 6 hours was used as the basis for a regular student.

## SUMMARY OF ALL STUDENTS IN THE UNIVERSITY



## ENROLMENT BASED ON STUDENT CREDIT HOURS

|  | Total Student Credit Hours | Full-time Student equivalent |
| :---: | :---: | :---: |
| Buchtel College of Liberal Arts... | . 4,333.0 | 135.4 |
| College of Engineering.-............ | 1,023.5 | 31.9 |
| College of Education.... | 2,781.0 | 86.9 |
| General College | .18,741.5 | 585.7 |
| Evening Session | 8,387.0 | 262.1 |
|  | 35,266.0 | 1,102.0 |

## DEGREES CONFERRED SUNDAY, JUNE 6, 1943

## BUCHTEL COLLEGE OF LIBERAL ARTS

## Bachelor of Arts

Martha Evelyn Anderson
William Reaymond Bond
Timothy Downing Calvin
Denise Capps Coburn
AnnaJean Dillehay
(With Distinction)
Juanita Mildred Gamble
Sidney Daniel Gluck
Elsie Joe Hansen
Janet Elizabeth Harig
Janis Marie Hoffman
Gertrude Ruth Kain
Betry Lou Knepper
(With Dintinetion)
Nancy Lee Knepper
Merle Ce Kucheman
(With Distinction)

Kathryn Marie McCormick
Doris Miklashek
Ann Miller
Robert James Newton
Robert Earl Ports
Theodore Richard Price
Gloria Moss Reich
Mary E. Rowe
Elizabeth Magdalene Schur
Sarah Silver
Julia Clare Swedenburg
Lois Duthie Thomas
Lois Eileen Weddell
Richard James Witner
William Benno Wolf, Jr.

Bachelor of Science
Richard Winfield Kibler
Arthur Max Lancaster
Jack Meyer Lederman
Evelyn Jean Mayers
James Roland Miller
William Ludwig Wittig
Daniel Boyd Witwer

Mary Louise Ahern
Harold William Bischoff
Paul Richard Chapman Bartholomew Clemente William Monroe Davis
Clyde Hirn Jones
Mary Jean Kelly

Mary Louise Wolf
Bachelor of Science in Business Administration

| John E. Frank | Rex Emery Sager <br> (With Distinction) |
| :--- | :--- |
| John Aloysius Gillooly | Alvin Stanley Siff |
| Charles Melvin Herman | William Curtis Sisler |
|  | Eugene Erwin Weiss |

Bachelor of Science in Secretarial Science

Marjory Ruth Billow
Helen Mariel Brimberry
Ann Mildred Buettell
Ruth Lenore Crum
Elizabeth H. Dorner
Claude James Frazee

Marjorie Isabel Hopkins
Beverly Jean Simmons
Elizabeth Jane Sisler
Ronald Winthrop Smith
Betty Marian Thompson

THE COLLEGE OF ENGINEERING
Bachelor of Civil Engineering
David Samuel Tarbox

## Bachelor of Mechanical Engineering

Everett Mason Lawrence

## THE COLLEGE OF EDUCATION

## Bachelor of Arts in Education

Harriet Lucille Henton
Virginia Marie Kelsey Dorothy Mildred Marty Wanda May McMillan
Constance Meisner

Glennie Jane Osborne
Betty Telford Replogle With Distinction)
Eleanor Agnes Safko
Virginia Marie Smith (With Dietinction)

Bachelor of Science in Education
Linnea Anderson
Mildred Frances Brouse
Rita Elizabeth Burke
Bernice Lucille Burnham
Mary Imogene Dague (With Distinction)
Margaret Caroline Davis
Ruth Lydia DeKalb
Mildred S. Gross
Betty Corrine Heminger Marjorie Grace Hollinger
Norma F. Hull
Betty Evans Johnson Blaine Hoover Johnston Steve Paul Kossky

Elizabeth June Launtz
Lester James Mikolashek
Donald Ellsworth Owen
Russell Pastuck
Martha Petrochuk
Ruth Elizabeth Roebuck
Lillian Evageline Samartzi
James Rodgers Sankey
Ailene Slater
Marjorie Elaine Smith
Gloria Sarah Spegal
Edith Epperson Steiner
Ann Louise Tschantz
Inez Valenti
Marjorie Fischer York

## GRADUATE STUDY

Master of Arts
Marian Elizabeth Kroeger

$$
\text { B.A., University of Akron, } 1939
$$

Master of Science
Ruth Eleanor Heppel
Martha Tillock Van Bolt A.B., College of Wooster, 1937

## B.S., Muskingum College, 1941

Everett John Kelley
B.S., Indiana University

## Master of Arts in Education

Esther Marie Engstrom
A.B., St. Olaf College, 1930

Robert Martin Erwine
B.A., Univeroity of Akron, 1933

Emily Ruth Gibson
A.B., Obio University, 1926

Betty Marie Harbaugh
B.A., University of Akron, 1939

Master of Science in Education
$\underset{\text { B. }}{\text { Kenneth } \mathbf{O} . \text {. Ment }}$ Myers
Albert J. Spangler
B.S.Ed., Miami University, 1931

Master of Education
Edward Leland Smith
B.E., University of Akron, 1928

## CERTIFICATES

BUCHTEL COLLEGE OF LIBERAL ARTS
Two-year Certificate in Secretarial Science
Elizabeth Tarmichael
Betty Jane Eckert Doris Darlene Huff June Eileen Williams

OFFICERS' RESERVE CORPS
To be commissioned as Second Lieutenants, Officers' Reserve Corps., A. U. S., upon completion of duty at their respective Service Schools.

## Second-year Advanced Course

Bruce J. Allen
John S. Ballard
Joseph Bilder, Jr.
Robert R. Brown
Walter H. Christensen, Jr.
George F. Eckert
John E. Frank
Rudolph J. Fruscella
Robert B. Fullmer
Roger B. Garver
John E. Hamman
George T. Haramis
William A. Hilkert
Hensley C. Hobbs
Elza E. Hopkins
Oscar A. Hunsicker, Jr.
Pedro W. Kageorge
To be commissioned as Second Lieutenants, Officers' Reserve Corps., A. U. S., upon completion of Basic Training and duty at their respective Service Schools.

First-year Advanced Course
Don B. Ahl
Richard N. Barbaris
Robert E. Bloom
Richard T. Bules
Charles W. Carter
Robert J. Clay
Charles R. Collins
Edwin J. Crites
Robert G. Culbertson
William W. Cunningham, Jr.
William Davis
Lino DellaBianca
John A. DiFederico
Harold S. Edmondson
David C. Foust
Thomas A. Fox, Jr.
John F. Freeman
Henry F. Fritsch, Jr.
William W. Frutchey
James R. Fuchs
Edward C. Gustely
Myron B. Hall
Raymond E. Harbaugh
George D. Harris
Charles A. Hollinger

Wayne V. King
Robert G. Moorefield
Stanley D. Myers
Robert J. Newton
William D. Plant
George E. Porteck, Jr.
Theodore R. Price
Harold E. Roth
James R. Sankey
William E. Savely
Alvin S. Siff
Ronald W. Smith
Frederick J. Stimler
Thomas A. Taber
Theodore T. Twynham
Harold B. Weaver

William M. Holsberry
Lester N. Jenkins
Thomas M. Lacey
Jack Lang
John I. Maluke
Danny R. McBride
Robert L. McFarland
Edwin R. McKinley
Robert A. Medley
Cale H. Merrill
William J. Miller
William T. Morgan
Milton Nelson
Franklin E. Palmer
Edgar A. Parsons
Charles A. Pfahl, Jr.
Ernest L. Puskas
William B. Self
William F. Spaethe
Robert H. Spindler
Joseph M. Ulrich
Raymond Unk
John S. Watt
Jack E. Weber
Thomas E. Williams

## DEGREES CONFERRED FRIDAY, SEPTEMBER 3, 1943 <br> buchtel college of liberal arts

Bachelor of Arts

| John Stuart Ballard | Oscar A. Hunsicker, Jr. | John Charles Sullivan <br> Grace Ellen Bessay <br> (With Distinction) |
| :--- | :--- | :--- |
| Robert Louis Hunt <br> Marjorie Elizabeth Cole | Andrew John Kochman, Jr. | Eileen Elizabeth Walsh |
| William John Whelton |  |  |

Bachelor of Science
Louis Mike DeLorenzo
Robert Elton Smith
Bachelor of Science in Business Administration
Harold Bruce Weaver
Helen Floasin
Bachelor of Science in Secretarial Science
THE COLLEGE OF ENGINEERING
Bachelor of Civil Engineering Bachelor of Electrical Engineering
Walter Timothy Nixon Harold Wilson Toner
Bachelor of Mechanical Engineering

| Anthony Daniel Campanale | William Albert Hilkert | Frank Martz Woehl |
| :--- | :--- | :--- |
| Mario DiFederico | Elza Eugene Hopkins | Robert Fraser Wright |
| Robert James French | Ray Albert Keefer |  |
| Frederick Jacob Stimler | Charles IVan Zimmerman |  |
| (Wiger Buchanan Garver | (With Distinction) |  |

THE COLLEGE OF EDUCATION
Bachelor of Arts in Education

| Benjamin Rush Cameron | achelor of Arts in Educat Louise Walker Jacobs Evelyn Alice Metlin helor of Science in Edu | Margaret Tsilkoff (With Distinction) |
| :---: | :---: | :---: |
| Helen Crouse Buckwalter | Frank DiNapoli | Jeanette Margaret Marsh |
| Beatrice Arlene Chauncey | Clarice Eloise Finley | Fern Winter Russell |
| (With Distinction) ${ }^{\text {( }}$ | Marian Priscilla Gabriel | Evelyn Replogle Sills |
| Rita Jane DeCora | Frances Ann' Leffler | Kermit Edward Smulba |
| Lois Ruth Dickerhoff | Marie Lynn GRADUATE STUDY Master of Arts | Mildred Miller Snyder |

Claude Wesley Fuston, Jr.
A.B., University of Akron, 1937
B.C.E., University of Akron, 1941

Master of Science
Robert William Duncan
B.S., Carnegie Institute of Technology, 1941
M.S., Carnegie Institute of Technology, Rice Master of Arts in Education
Men
M. Vernon Rice
A.B., Colgate University, 1930

Master of Science in Education
$\underset{\text { B.S.Educ., Ohio University, }}{\text { Marcus }}{ }^{\text {S. Miller }} \quad$ Robert William Shearer $\quad$ B. S., Capital University, 1934
Master of Education
Lucile Boyla
John C. Griffith
B.E., University of Akron, $1928 \quad$ B.E., University of Akron, 1931

Martha Olivia Rylander
B.E., University of Akron, 1938

CERTIFICATES
To be commissioned as Second Lieutenants, Officers' Reserve Corps, A. U. S., upon completion of duty at their respective Service Schools.

RESERVE OFFICERS' TRAINING CORPS
Second-year Advanced Course
John S. Ballard
Roger B. Garver
William A. Hilkert
Elza E. Hopkins

Oscar A. Hunsicker, Jr.
Frederick J. Stimler
Harold B. Weaver

DEGREES CONFERRED FRIDAY, JANUARY 28, 1944
buchtel college of liberal arts
Bachelor of Arts
Doris Grace Morgan
William Dewey Plant, Jr.
George Ernest Porteck, Jr.
Frank Charles Prentice
Lillian Marion Schwartz
Gloria Betty Sobel
(With Distinction)
Bachelor of Science
George Frank Eckert (With Distinction)
Thurman Leland Graves
Sergius H. Mamay
Maurice Neuman
(With Distinction)
Bachelor of Science in Applied Art
Virginia Doerr
Bachelor of Science in Business Administration
William Holland Bines, Jr.
Ford A. Dickerhoff
Robert Milton Freedman Frank Carl Just
Vernon Willis Leasor
Bachelor of Science in Secretarial Science
Walter Henry Christensen, Jr.
THE COLLEGE OF ENGINEERING
Bachelor of Electrical Engineering

Joseph Theodore DeLorenzo Nils ${ }^{\text {(With Diatinction) }}$ Stanley Dana Myers

Bruce James Allen
Robert Edward Baker Robert Bennett Fulmer John Edward Hamman George Theodore Haramis

William Eugene Savely (With Diatinction)
Robert Lyle Towne
Bachelor of Mechanical Engineering
Ivan Edward Hertle
Pedro William Kageorge
Robert Carl Shipman (With Distinction)
Jack Hollowood Sutton

THE COLLEGE OF EDUCATION
Bachelor of Arts in Education
Maida DeEtta Pounds
Fannie Agnes Biondo
Carrie White Crile
A. Eleanor Dangelo

Harriette Ruth Freeman
Mary Girves

## Bachelor of Science in Education

 Eunice Harriett HarrisBessie Mitseff
Dorothy Lucille Myers
Arlene May Spahr. (With Distinction)

## GRADUATE STUDY

Master of Arts
Jackson William Rafeld
B.A., Weat Virginia Weslegan College, 1933

Master of Science
Joshua Stampfer
B.S., University of Chicago, 1942

Master of Arts in Education
Charles Carmany
B.A., Ohio Wesleyan Univeraity, 1929

Helen Janet Sullivan
B.E. 1928, B.A. 1942, University of Akron

## HONORS AND PRIZES

## 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.

Betty Lou Knepper

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

Bartholomew Clemente

## THE LAFAYETTE CHAPTER OF THE SONS OF THE AMERICAN REVOLU'IION MEDALS

Awarded annually to that member of the Senior Class of the Reserve Officers' Training Corps, demonstrating soldierly bearing, leadership, and general excellence. Awarded this year to a member of the Junior Class also.

> Senior, John S. Ballard

Junior, Charles R. Collins

THE OHIO STATE UNIVERSITY SCHOLARSHIP
Awarded to Jane Edgecomb Bailey, B.S.Ed., 1938, B.A., 1942, University of Akron for 1942-43.

Awarded to Einar Gerald Anderson B.S.Bus.Adm., 1942, University of Akron, for $1943-44$.

THE ALBERT I. SPANTON COLLECTION OF ENGLISH AND AMERICAN LITERATURE
To Bierce Library, University of Akron, presented by friends of Dean Spanton in appreciation of his fifty years as student and teacher in Buchtel College, and the University of Akron, on his retirement from active service, June 30, 1944.
PIXLEY SCHOLARS - 1942-43

Fram the Frank Pixley Memorial Fund, awards are made to students of outstanding ability and promise in the field of literature, music, and speech.

In English-May George, Marie C. Lalli, Mary Rowe.
In Speech-Martha Anderson, Bernice Burnham, Juanita Chauncey, Mary Dague, AnnaJean Dillehay, Robert Kaase, Nancy Knepper, Andrew Kochman, Robert McFarland, Jack G. Moody, Phyllis Selby, Betty Snyder, Julia Swedenburg.

In Music-Bette Burke, Beatrice Chauncey, Ruth DeKalb, Elsie Jo Hansen, Betty E. Jobnson, Virginia Means, Spurgeon Moore, Gloria Spegal, John Watt.

## 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 1943
As juniors in 1942:
Jamer William Algea Henry Schneider
Betty Lou Knepper
As seniors:
Jack Thorton Blue Lewis Helfrich
AnnaJean Dillehay
Merle C. Kucheman
John E. Frank
As juniors of the class of 1944:
Grace Bessay
Clark Cory Livensparger
Gloria Sobel

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 practicality are also considered.

Elected to membership from the class of 1943
As juniors in 1942:
David Samuel Gabriel Jack Burdett Hart

## Zachary Nick Harris

As seniors:
Carl Dudugjian
As juniors in the class of 1944:
Joseph Bellassai
Joseph Theodore DeLorenzo
Jack Kenneth Hoffman
Russell Lawrence Jones
Harold Clair Parris
As pre-juniors in the class of 1944:
Richard Charles Collins
Jack Edward Hamman
Robert Lee Hostetler

Julius Meszaros
Raymond Ferguson Upp
William Eugene Savely
Joseph Marshall Smith
Frederick Jacob Stimler
Vito Joseph Stolfo

Albert Morlan LaRue
Robert Carl Shipman

## SIGMA PI EPSILON

An honor fraternity established for the purpose of promoting scholarship, citizenship, and artisanship among the students of the College of Education. Students being graduated with distinction automatically become members of the fraternity.

## Dorothy Mae Crum

Mary Imogene Dague
Helen Bryant Esch
Betty Telford Replogle

[^12]
## THE UNIVERSITY OF AKRON ALUMNI ASSOCIATION <br> OFFICERS OF THE GENERAL ASSOCIATION (1943-44) ${ }^{\text {' }}$



## ALUMNI BOARD OF TRUSTEES

Term expires June, 1944-Mrs. Willíim H. Fleming, 'll; Arthur F. Ranney, '15; Earl R. Gilleland, '28; and Caroline Pardee, '32.

Term expires June, 1945-Dr. E. B. Foltz, '96; John M. Pittenger, '31; Byron Larabee, '26; and Arthur E. Warner, '03.

Term expires June, 1946-Park P. Crisp, '16; Arden Firestone, '29; Mrs. Richard L. Miller, '32; and Carl E. Boyer, '27.

## ASSOCIATION BRANCHES

Chicago....................................esident, Dr. Carl E. Frick, '16, 8512 Constance Avenue, Chicago, Illinois.
Cleveland_-.............................-.-.-Secretary, Mrs. Joseph B. Shea, '19, 3673 Traver Road, Shaker Heights, Ohio.
Detroit......................................President, Theodore Harkington, '25, 16800 Parkside, Detroit, Michigan.
 Los Angeles, California.
Pittsburgh......................................ecretary, Miss Irene Willson, '16, Shadyside Hospital, 5230 Centre Avenue, Pittsburgh, Pennsylvania.
The Alumni Association of the University of Akron was organized in 1874 to further the interests of the college and to promote the 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 the organization of 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. Four thousand six hundred and seventyseven 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; (2) Life Membership Pledge (paid in three installments of $\$ 10$ each), $\$ 30$; (3) Alumni Loyalty Bond (paid in five installments of $\$ 10$ each), $\$ 50$.

The first three installments on the $\$ 50$ 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.

I N DEX

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[^0]:    *In May, 1944, a fourth division was created, to be known as Applied Arts, and to include Art, Secretarial Science, Commerce, and Home Economics, and Industrial Management and Oceupational Therapy.

[^1]:    *Second year of German is required for graduation from the Upper College in the case of Chemistry
    and Pre-Medical majors, the gecond year of either French or German in the case of Biology and Mathematica majors, and the second year of a foreign language in the ease of Physica Majors. In the Humanftien 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.

[^2]:    ${ }^{*}$ Replacen course $\mathbf{1 5} .16$ na a war-time emergency measure for the duration.

[^3]:    +Retired April 24, 1944.

[^4]:    - Required courses in the particular major.

[^5]:    Thowe planning to complete the four year program in three years by attending summer asealone

[^6]:    * Because of the accelerated program and the selective service requirement, the co-operative plan has been suspended for the duration.

[^7]:    * 142 during the accelerated program.

[^8]:    - General courses are not included in the total hours listed above.
    $\dagger$ The two units of high school which are required as prerequisites to college study in a language may be satiofied by taking the eight-bour beginning course. This means that, in order to place a language on a certificate as a teaching field, 23 hours would be required if the study of the language is begun iv college.
    $\ddagger$ Varies with the major and minors. In some cases the methods requirement is included as a part of the major.

[^9]:    - Replaces course $\mathbf{1 5}$-16 as a war-time emergency measure for the duration.

[^10]:    "111-112-113-114. Experimental Psychology. 1 credit each.
    Prerequisite 41. Four semesters of experiments under laboratory conditions.

[^11]:    * Evening classes
    * These classen will meet the first two weeks of the aemester only.

[^12]:    Virginia Sabo
    Virginia Marie Smith
    Mary Van Doros

