

1948

# 1948-1949 Southern Illinois University Bulletin

Southern Illinois University Carbondale

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BULLETIN

SOUTHERN  
ILLINOIS  
UNIVERSITY

ANNOUNCEMENTS FOR 1949-1950



*Diamond Jubilee*  
1874-1949

### SOUTHERN'S DIAMOND JUBILEE

This University opened its doors as Southern Illinois Normal University, July 2, 1874, and it will this year celebrate its seventy-fifth anniversary, with appropriate ceremonies, reunions, and pageantry, in the *Homecoming Diamond Jubilee*, October 20-22, 1949.

Also, on July 2, 1949, there will be exercises under the title of *First Day of School*, at which time the cornerstone of the new Education Building will be laid.

# Southern Illinois University Bulletin

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VOLUME XLIII

CARBONDALE, ILLINOIS, JULY, 1949

NUMBER 3

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CATALOG ISSUE  
WITH  
ANNOUNCEMENTS  
FOR  
1949-1950



GRADUATE AND UNDERGRADUATE COURSES

Published Quarterly with the Approval of the Publications  
Committee of the University

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STATE OF ILLINOIS  
ADLAI STEVENSON, Governor

# Southern Illinois University

Established 1874

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The Graduate School

College of Education

College of Liberal Arts and Sciences

College of Vocations and Professions

Division of Extension and Adult Education

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## BOARD OF TRUSTEES

Dr. Leo J. Brown.....	Carbondale
Mr. Kenneth L. Davis.....	Harrisburg
Mr. Robert W. Davis.....	Carbondale
Mr. Guy Gladson.....	Chicago
Mr. O. W. Lyerla.....	Herrin
Mr. Lindell W. Sturgis.....	Metropolis
Mr. John P. Wham.....	Centralia
Mr. Vernon L. Nickell.....	Springfield
<i>(Ex-Officio)</i>	

CALENDAR

1949

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
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1950

JANUARY							FEBRUARY							MARCH							APRIL						
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MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
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3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
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17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	20	21	22	23	24	25	26
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# UNIVERSITY CALENDAR

1949-50

## Fall Quarter, 1949

1949

Sept. 7-10	Wednesday-Saturday	Freshman Week
Sept. 12-13	Monday-Tuesday	Registration
Nov. 24-25	Thursday-Friday	Thanksgiving Recess
Nov. 29-Dec. 3	Tuesday-Saturday	Final Examinations

## Winter Quarter, 1949-50

Dec. 5	Monday	Registration
Dec. 17	Saturday	Christmas Recess Begins

1950

Jan. 2	Monday	Instruction Resumed
Feb. 13	Monday	Observance of Lincoln's Birthday Holiday
March 7-11	Tuesday-Saturday	Final Examinations

## Spring Quarter, 1950

March 20	Monday	Registration
May 18	Thursday	Honors Day Assembly
May 30	Tuesday	Memorial Day Holiday
June 5-8	Monday-Thursday	Final Examinations
June 10	Saturday	Close of Spring Quarter

## Summer Session, 1950

June 12	Monday	Registration
July 4	Tuesday	Independence Day Holiday
August 3-4	Thursday-Friday	Final Examinations
August 4	Friday	Commencement

**Diamond Jubilee—Homecoming Celebration,**

**Thursday-Saturday, October 20-22**

## OFFICERS AND ADMINISTRATIVE STAFF

### Office of the President

Delyte W. Morris, Ph.D.....President  
Charles D. Tenney, Ph.D.....Administrative Assistant to the President  
Lois H. Nelson, B.Ed.....Secretary to the President  
Minnie Mae Pitkin, M.S.....Assistant in Personnel  
Roye R. Bryant, M.A.....Field Representative

\* \* \*

### Graduate School

Willis G. Swartz, Ph.D.....Chairman, Graduate Studies Committee

### College of Education

Douglas E. Lawson, Ph.D.....Dean  
Ted R. Ragsdale, Ph.D.....Director, Teacher Training

### College of Liberal Arts and Sciences

T. W. Abbott, Ph.D.....Dean

### College of Vocations and Professions

H. J. Rehn, Ph.D.....Dean

### Division of Extension and Adult Education

Raymond H. Dey, M.S.....Director  
Donald A. Ingli, M.A.....Director, Audio-Visual Aids Service

### Biological Research Laboratory

Carl C. Lindegren, Ph.D.....Director

### University Libraries

Robert H. Muller, Ph.D.....Director  
E. G. Lentz, A.M.....Curator, Clint Clay Tilton Library

### Personnel Deans and Staff

Marshall S. Hiskey, Ph.D.....Dean of Men  
Ledford J. Bischof, M.S. in Ed.....Assistant to the Dean of Men  
Helen A. Shuman, M.A.....Dean of Women  
Ruth Haddock, M.A.....Assistant Dean of Women  
Loretta Keough Ott, B.S. in Ed.....Assistant to the Dean of Women  
Alice Phillips Rector, M.S. in Ed.....Assistant to the Dean of Men

### Business Offices

Edward V. Miles, Jr., M.A.....	Business Manager
Cornelia L. Beach, B.Ed.....	Purchasing Agent
Lucile Etherton.....	Bursar
Robert L. Gallegly, A.M.....	Chief Accountant
Jane Crichton, B.Ed.....	Assistant in Personnel

### Registrar's Office

Marjorie Shank, M.A.....	Registrar
Sue Jackson Eberhart.....	Assistant Registrar
Norma Trotter, B.S. in Ed.....	Acting Recorder
Earl W. Murray, B.S. in Ed.....	Assistant to the Registrar

### Information Service

Lorena Drummond, B.A.....	Director
---------------------------	----------

### Alumni Service

Orville Alexander, Ph.D.....	Director
Marjory Morse Enrietto, B.S. in Ed.....	Alumni Recorder

### Placements Service

Raymond H. Dey, M.S.....	Director
Ruby M. Straker, B.S. in Ed.....	Assistant to the Director

### Housing Service

Mabel Pulliam.....	Director
Maxine Vogely, M.A.....	Director of Anthony Hall
Edna Spires Travis, M.S. in Ed.....	Assistant to the Director of Anthony Hall
Ernest R. Wolfe.....	Supervisor of Veterans Housing Projects

### Health Service

Marie A. Hinrichs, Ph.D., M.D.....	University Physician
Ralph Boatman, M.P.H.....	Health Co-ordinator

### Bookstore

J. Carl Trobaugh, B.S.....	Manager
----------------------------	---------

### Physical Plant

W. A. Howe, M.S.....	Director
----------------------	----------

## UNIVERSITY FACULTY

*Date indicates first year of service with the Faculty.*

- DELYTE W. MORRIS (1948) *President*  
B.A., Park College; M.A., University of Maine; Ph.D., University of Iowa.
- TALBERT W. ABBOTT (1928) *Dean of the College of Liberal Arts and Sciences, Professor of Chemistry*  
A.B., Indiana University; A.M., Harvard University; Ph.D., University of Illinois.
- ORVILLE ALEXANDER (1938) *Director of Alumni Services, Professor of Government*  
B.Ed., Southern Illinois University; M.A., Ph.D., University of Iowa.
- JOHN W. ALLEN (1942) *Acting Director of the Museum, Instructor*  
Southern Illinois University.
- GLADYS W. BABCOCK (1939) *Assistant Professor of Home Economics*  
B.S., M.S., University of Minnesota; Colorado State College; Iowa State College.
- LOUISE BACH (1934) *Assistant Professor, University High School*  
B.A., Illinois Wesleyan; A.M., University of Illinois; University of Wisconsin.
- WILLIAM M. BAILEY (1914) *Professor of Botany*  
*Chairman of Department, Emeritus (1946)*  
A.B., B.S., Campbell College; M.S., Ph.D., University of Chicago.
- IRIS BEVERLY BAKER (1948) *Instructor in Economics*  
B.S., M.S., Kansas State College.
- HELEN A. BALDWIN (1918) *Associate Professor of Foreign Languages, Emerita (1945)*  
A.B., Denison University; A.B., University of Chicago; A.M., Denison University.
- JULIA MINNETTE BARBER (1936) *Assistant Professor of English*  
B.A., M.A., University of Illinois; Northwestern University; University of Chicago; University of Arizona.
- FRANCES BARBOUR (1925) *Associate Professor of English*  
A.B., M.A., Washington University; Kings College, University of London; Radcliffe College; University of Texas; University of Wisconsin.
- MARY LOUISE BARNES (1929) *Assistant Professor of Home Economics*  
A.B., University of Illinois; M.S., Iowa State College; George Peabody College for Teachers; University of Illinois.
- MARY NOEL BARRON (1948) *Assistant Professor of Business Administration*  
B.S., University of Kentucky; M.B.A., University of Michigan; C.P.A., Kentucky and Tennessee.
- MARY EILEEN BARRY (1946) *Associate Professor of Foreign Languages*  
B.A., M.A., University of Manitoba; Ph.D., University of Chicago.
- JOSEPH R. BAXTER (1946) *Assistant Professor of Latin American Culture*  
A.B., Berea College; M.A., Duke University.
- CORNELIA L. BEACH (1937) *Purchasing Agent*  
B.Ed., Southern Illinois University.
- WILLIAM C. BICKNELL (1946) *Professor of Industrial Education, Chairman of Department*  
B.S., North Texas State Teachers College; M.A., D.Ed., University of Missouri; University of California.
- LEDFORD J. BISCHOF (1946) *Instructor, Assistant to the Dean of Men*  
B.Ed., Northern Illinois State Teachers College; M.S. in Ed., Southern Illinois University; Syracuse University.
- NORMAN G. BITTERMAN (Winter 1948) *Assistant Professor of Economics*  
B.S., M.S., University of Illinois.
- AMOS H. BLACK (1948) *Associate Professor of Mathematics*  
A.B., Marietta College; M.A., West Virginia University; Ph.D., Cornell University.
- RALPH BOATMAN (1947) *Instructor in Health Education, Acting Chairman of Department, Health Co-ordinator*  
B.Ed., Southern Illinois University; M.P.H., University of North Carolina.
- HOWARD E. BOSLEY (1937) *Associate Professor of Education*  
B.Ed., Southern Illinois University; M.A., Ed.D., Teachers College, Columbia University.
- EMMA L. BOWYER (1912) *Professor of English, Chairman of Department, Emerita (1947)*  
A.B., A.M., University of Chicago.
- GEORGE BRACEWELL (1931) *Associate Professor of Rural Education*  
B.Ed., Southern Illinois University; A.M., University of Michigan; Northwestern University; University of Chicago.

- A. FRANK BRIDGES (1943) *Instructor in Health Education*  
B.Ed., Southern Illinois University; M.A., University of Iowa; Ball State Teachers College.
- HAROLD E. BRIGGS (1945) *Professor of History, Chairman of Department*  
A.B., M.A., University of South Dakota; Ph.D., University of Iowa.
- LEO J. BROWN (Spring 1949) *Associate Professor of Physics*  
B.Ed., Southern Illinois University; B.S., University of Illinois, College of Medicine; M.D., University of Illinois.
- ROYE R. BRYANT (1948) *Field Representative*  
B.Ed., Southern Illinois University; M.A., University of Illinois.
- VAN A. BUBOLTZ (1937) *Assistant Professor of Business Administration*  
B.S., Iowa State Teachers College; University of Southern California; M.A., Northwestern University.
- WINIFRED BURNS (1939) *Assistant Professor of English*  
A.B., A.M., University of Illinois; Bread Loaf School of English; University of Chicago; Leave of Absence, 1948-49.
- NORMAN CALDWELL (1946) *Associate Professor of History*  
B.Ed., Southern Illinois University; A.M., Ph.D., University of Illinois.
- GEORGE C. CAMP (1947) *Assistant Professor of English*  
B.A., Ohio Wesleyan University; M.A., Ohio State University; University of Illinois.
- THERA CAVENDER (1947) *Librarian, Instructor*  
B.S. in Ed., Southwest Missouri State College; A.M., University of Missouri; B.S. in L.S., University of Illinois.
- STEWART C. CHANDLER (1940) *Consulting Entomologist*  
B.S. in Agriculture, University of Wisconsin; Field Entomologist, Illinois Natural History Survey.
- GORDON J. CHAPMAN (1948) *Instructor in Business Administration*  
B.S., M.A., University of Missouri.
- GEORGE L. CHERRY (1947) *Associate Professor of History*  
A.B., A.M., University of Illinois; Ph.D., Northwestern University.
- WILLIS G. CISNE (1916) *Professor, Director of Placements Emeritus (1945)*  
Southern Illinois University; Ph.B., University of Wisconsin; A.M., University of Chicago.
- GLADYS RICE CLARK (1946) *Instructor in Mathematics*  
B.S. in Ed., University of Nebraska; M.A., Teachers College, Columbia University.
- LAWRENCE E. CLARK (1945) *Associate Professor, Veterans Guidance Center*  
A.B., Drake University; A.M., Ohio State University; Ph.D., Columbia University.
- LULU R. CLARK (1917) *Assistant Professor, Allyn Training School, Emerita (1940)*  
Southern Illinois University; University of Chicago; Teachers College, Columbia University.
- MARSHALL GRANT CLARK (1947) *Assistant Professor of Agriculture*  
B.S., M.S., University of Illinois.
- CLAUDE COLEMAN (1946) *Associate Professor of English*  
A.B., University of Illinois; A.M., University of Wisconsin; Ph.D., University of Illinois.
- ELIZABETH A. COX (1920) *Assistant Professor of English*  
A.B., A.M., University of Kansas.
- FLEMIN W. COX (1929) *Associate Professor of Geography Emeritus (1945)*  
A.B., A.M., University of Illinois; Clark University.
- EUGENE E. CRAWFORD (1949) *Assistant Professor of Zoology*  
B.S., B.S.F., University of Michigan; M.S., Oregon State College.
- JANE W. CRICHTON (1948) *Assistant in Personnel*  
B.Ed., Southern Illinois University.
- ZELLA CUNDALL (1946) *Librarian, Instructor*  
B.A., B.S. in L.S., University of Illinois.
- FLOYD F. CUNNINGHAM (1947) *Associate Professor of Geography, Chairman of Department*  
Eastern Illinois State College; B.Ed., Illinois State Normal University; University of Chicago; A.M., Ph.D., Clark University.
- DOROTHY R. DAVIES (1939) *Professor of Physical Education for Women, Chairman of Department*  
B.S., University of Cincinnati; M.A., Teachers College, Columbia University; Ed.D., University of Cincinnati.
- J. CARY DAVIS (1930) *Associate Professor of Foreign Languages*  
B.Ed., Southern Illinois University; the Sorbonne; A.M., Ph.D., University of Chicago.
- FLORENCE E. DENNY (1929) *Assistant Professor of Health Education, Nurse*  
B.Ed., Southern Illinois University; graduate, School of Nursing, Beth-El Hospital, Colorado Springs; M.A., Teachers College, Columbia University.
- RAYMOND H. DEY (1946) *Director, Extension and Adult Education*  
Blackburn University; B.S., M.S., University of Illinois.

- LORENA DRUMMOND (1945) *Director, Information Service*  
B.A., University of Texas.
- VIOLA M. DUFRAIN (1947) *Associate Professor of Business Administration*  
A.B., University of Illinois; A.M., Ph.D., University of Chicago.
- CLAUDE J. DYKHOUSE (1947) *Associate Professor of Education*  
B.S., Michigan State College; M.A., Ph.D., University of Michigan.
- TROY W. EDWARDS (1947) *Instructor, Assistant Principal, University High School*  
B.Ed., M.S. in Ed., Southern Illinois University; Indiana University.
- EILEEN E. ELLIOTT (1948) *Professor of Home Economics,  
Chairman of Department*  
B.S., Northwest Missouri State Teachers College; M.A., Teachers College, Columbia University; Ed.D., University of Missouri.
- ROBERT W. ENGLISH (1940) *Assistant Professor of Industrial Education*  
B.S., James Millikin University; M.A., University of Illinois; University of Pennsylvania; St. Louis University; Washington University; Leave of Absence, 1948-49.
- MARJORY M. ENRIETTO (1949) *Alumni Recorder*  
B.S. in Ed., Southern Illinois University.
- MARY E. ENTSMINGER (1922) *Associate Professor, Allyn Training School*  
Southern Illinois University; Ph.B., University of Chicago; M.A., Teachers College, Columbia University.
- KENNETH A. ERVIN (1947) *Instructor in Art*  
B.A., M.A., Louisiana State University.
- FRANCES D. ETHERIDGE (1925) *Assistant Professor of Physical  
Education for Women*  
A.B., B.S., University of Illinois; M.A., Ohio State University. Entered U. S. Armed Forces, 1942.
- ROBERT DUNN FANER (1930) *Associate Professor of English*  
A.B., Allegheny College; M.A., University of Iowa; Columbia University; Ph.D., University of Pennsylvania.
- EMILY E. FARNHAM (1947) *Assistant Professor of Art*  
B.S. in Ed., Kent State University; M.A., Ohio State University; California College of Arts and Crafts; Cleveland School of Art.
- WOODROW M. FILDES (1948) *Instructor in Mathematics*  
B.S. in Ed., M.S. in Ed., Southern Illinois University.
- WOODSON W. FISHBACK (1948) *Assistant Professor of Education*  
B.S. in Ed., A.M., University of Missouri; Ph.D., University of Chicago.
- R. JEAN FLIGOR (1941) *Instructor, University High School*  
B.Ed., Southern Illinois University; M.A., Northwestern University; Michigan State College.
- CHARLES L. FOOTE (1947) *Associate Professor of Zoology*  
B.S., North Texas State Teachers College; M.S., Texas A. and M. College; Ph.D., University of Iowa.
- FLORENCE FOOTE (1947) *Assistant Professor of Zoology*  
A.B., A.M., Mt. Holyoke College; Ph.D., University of Iowa.
- CECIL C. FRANKLIN (1948) *Assistant Professor of Physical Education  
for Men, Chairman of Department*  
B.S. in Ed., M.S. in Ed., Dir. P.E., Indiana University.
- WILLIAM FREEBERG (1942) *Instructor, Physical Education for Men*  
B.Ed., Southern Illinois University; M.S., University of Illinois; Leave of Absence, 1948-49.
- ELBERT FULKERSON (1932) *Assistant Professor, University High School*  
B.Ed., Southern Illinois University; M.A., University of Illinois.
- ROBERT L. GALLEGLEY (1946) *Chief Accountant*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- CAMERON W. GARBUTT (1947) *Assistant Professor of Speech*  
B.S., Northwestern University; University of Iowa; University of Oregon; M.S., University of Washington; Louisiana State University.
- WILLARD M. GERSBACHER, (1929-30; 1936) *Professor of Zoology,  
Chairman of Department*  
B.Ed., Southern Illinois University; A.M., University of Illinois; University of Washington; Ph.D., University of Illinois.
- M. ALBERTA GIBBONS (1921-3; 1928) *Assistant Professor, University High School*  
A.B., University of Illinois; A.M., Columbia University; University of Chicago; George Peabody College; Northwestern University; Walton School of Commerce.
- TINA GOODWIN (1947) *Assistant Professor, Allyn Training School*  
B.Ed., Southern Illinois University; M.A., Teachers College, Columbia University; University of Tennessee; University of Chicago.
- CHALMER A. GROSS (1946) *Assistant Professor, University High School*  
B.S. in Ed., M.S., University of Illinois; Southern Illinois University; University of Chicago.
- RUTH HADDOCK (1948) *Assistant Dean of Women, Assistant Professor*  
A.B., Pennsylvania College for Women; M.A., University of Pittsburgh; University of Wisconsin; College of William and Mary; University of Hawaii; Syracuse University.

- ELBERT H. HADLEY (1947) *Associate Professor of Chemistry*  
Wheaton College; B.S., M.S., University of Michigan; Ph.D., Duke University.
- DILLA HALL (1924) *Assistant Professor, University High School*  
B.Ed., Southern Illinois University; M.S., University of Chicago; St. Louis University; University of Illinois.
- GOLDA D. HANKLA (1938) *Librarian, Instructor*  
B.Ed., Southern Illinois University; M.A., B.S. in L.S., University of Illinois.
- JESSE W. HARRIS (1939) *Associate Professor of English*  
B.S., M.A., Ph.D., University of Illinois.
- HELLMUT A. HARTWIG (1948) *Associate Professor of Foreign Languages*  
A.B., University of Illinois; M.A., Louisiana State University; Ph.D., University of Illinois.
- DOROTHY E. HEICKE (1947) *Librarian, Assistant Professor*  
B.S. in L.S., A.B., M.A. in L.S., University of Illinois.
- HAROLD C. HINES (1946) *Instructor in Music*  
B.S., M.S. in Music, University of Illinois.
- MARIE A. HINRICHS (1935) *University Physician, Professor of*  
*Physiology and Health Education, Chairman of Department*  
A.B., Lake Forest College; Ph.D., University of Chicago; M.D., Rush Medical College.
- MARSHALL S. HISKEY (1946) *Dean of Men, Professor of Psychology*  
B.S. in Ed., M.S., Kansas State Teachers College; Ph.D., University of Nebraska; Ohio State University.
- LYNN C. HOLDER (1946) *Assistant Professor of Physical Education for Men*  
B.Ed., Southern Illinois University; M.S. in Ed., Indiana University.
- WILLIAM F. HOLTROP (1948) *Associate Professor of Industrial Education*  
B.S., Teachers College, Kearney, Nebraska; M.Ed., University of Missouri; Ed.D., University of California, Los Angeles.
- W. A. HOWE (1949) *Instructor in Industrial Education, Director, Physical Plant*  
B.Ed., Southern Illinois University; M.S., University of Illinois.
- BILLY HOYLE (1948) *Instructor in Mathematics*  
B.S. in Ed., M.S. in Ed., Southern Illinois University.
- DONALD A. INGLI (1947) *Assistant Professor,*  
*Director of Audio-Visual Aids Service*  
B.S., State Teachers College, River Falls, Wisconsin; M.A. University of Minnesota; University of Wisconsin.
- JOSEPH K. JOHNSON (1947) *Professor of Sociology, Chairman of Department*  
A.B., University of Texas; University of Chicago; M. A., University of Texas; Ph.D., Washington University.
- MARVIN E. JOHNSON (1948) *Instructor in Industrial Education*  
B.S. in Ed., Eastern Illinois State College; M.S., University of Illinois.
- ROY VAIL JORDAN (1948) *Assistant Professor of Education*  
B.Ed., Southern Illinois University; A.B., University of Illinois; M.A., University of Wisconsin.
- MARGARET KAEISER (1947) *Assistant Professor of Botany*  
B.S., M.S., University of Oklahoma; Ph.D., University of Illinois.
- RUBY KERLEY (1935-42; 48) *Librarian, Assistant Professor*  
B.Ed., Southern Illinois University; B.S., University of Illinois; A.M. in L.S., University of Michigan.
- MAURITS KESNAR (1946) *Professor of Music, Chairman of Department*  
Master Dipl., Royal Conservatory (Flesch and Schmueller), Amsterdam, The Netherlands; Diploma, Hoch Schule fur Musik, Berlin, Germany; M.A., Ph.D., University of Iowa.
- FLORENCE R. KING (1911) *Instructor, Allyn Training School, Emerita (1936)*  
State Normal and Training School, Oswego, New York; University of Minnesota; University of Chicago.
- GRACE E. KITE (1941) *Librarian, Assistant Professor*  
B.S., Northwestern University; M.A. Teachers College, Columbia University; B.S. in L.S., University of Illinois.
- FRANK L. KLINGBERG (1946) *Associate Professor of Government*  
A.B., A.M., University of Kansas; Ph.D., University of Chicago.
- RICHARD J. C. KOHLER (1947) *Instructor in Industrial Education*  
B.Ed., Illinois State Normal University; A.M., Colorado State College of Education; University of Missouri.
- EDITH SMITH KRAPPE (1929) *Assistant Professor of English*  
A.B., A.M., University of Iowa; Indiana University; University of Minnesota; University of Pennsylvania; Leave of Absence, 1947-49.
- ANNEMARIE E. KRAUSE (1930) *Assistant Professor of Geography*  
Western Michigan College of Education; B.S., University of Minnesota; M.S., University of Illinois; University of Chicago; University of Colorado.
- MABEL SICKMAN LANE (1943) *Instructor, University High School*  
B.Ed., Southern Illinois University; M.S. in Ed., University of Illinois; Southern Illinois University.

- DOUGLAS E. LAWSON (1935) *Dean of the College of Education, Professor of Education*  
A.B., M.A., Colorado State Teachers College; Ph.D., University of Chicago.
- ELI GILBERT LENTZ (1914) *University Professor, Curator, Clint Clay Tilton Library*  
A.B., Indiana University; A.M., University of Illinois.
- CARL CLARENCE LINDEGREN (1947) *Professor of Microbiology, Chairman of Department, Director, Biological Research Laboratory*  
B.S., M.S., University of Wisconsin; Ph.D., California Institute of Technology.
- FRED K. LINGLE (1948) *Assistant Professor of English*  
B.Ed., Southern Illinois University; A.M., University of Illinois; University of Wisconsin; New York University; University of Southern California.
- LELAND P. LINGLE (1927) *Associate Professor of Physical Education*  
B.Ed., Southern Illinois University; M.A., University of Iowa.
- BONNIE A. LOCKWOOD (1945) *Instructor, University High School*  
B.Ed., M.S. in Ed., Southern Illinois University; University of California at Los Angeles; University of Illinois.
- THELMA LYNN (1945) *Librarian, Assistant Professor*  
B.A., University of Texas; B.S., M.S., School of Library Service, Columbia University.
- WILLIS E. MALONE (1939) *Assistant Professor of Education*  
B.Ed., Southern Illinois University; M. A., Northwestern University; Ohio State University; Leave of Absence, 1948-49.
- WILLIAM M. MARBERRY (1939) *Assistant Professor of Botany*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- GLENN MARTIN (1938) *Associate Professor of Physical Education for Men, Director of Athletics*  
B.Ed., Southern Illinois University; M.A., University of Iowa.
- WILLIAM R. MATTHIES (1948) *Assistant Professor of Business Administration*  
B.S., Northwestern University; M.S., University of Colorado; University of Chicago; C.P.A., Illinois and Wisconsin.
- LEWIS A. MAVERICK (1946) *Professor of Economics, Chairman of Department*  
B.S., Washington University; M.A., Ed.M., Ed.D., Harvard University; Ph.D., University of California.
- WILBUR C. MCDANIEL (1939) *Associate Professor of Mathematics, Acting Chairman of Department*  
B.S., Kansas State College; M.Ph., Ph.D., University of Wisconsin.
- DAVID S. MCINTOSH (1927) *Associate Professor of Music*  
B.M.E., Northwestern University; M.A., University of Iowa.
- ARCHIBALD MCLEOD (1947) *Associate Professor of Speech*  
A.B., Oberlin College; M.A., University of Iowa; Ph.D., Cornell University.
- ELIZABETH MEEHAN (1941) *Instructor, Allyn Training School*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- JOHN D. MEES (1946) *Assistant Professor, Principal, University High School*  
B.Ed., Southern Illinois University; M.S., University of Illinois; University of Missouri; University of Chicago; Indiana University.
- MARY BELLE MELVIN (1947) *Instructor, Library*  
B.Ed., Southern Illinois University; B.S. in L.S., University of Illinois.
- BRUCE W. MERWIN (1927) *Professor of Education*  
A.B., B.S. in Ed., A.M., Ph.D., University of Kansas.
- EDWARD V. MILES, JR. (1919) *Business Manager, Associate Professor of Economics*  
B.Ed., Southern Illinois University; University of Chicago; A.M., St. Louis University.
- KATE E. MOE (1947) *Assistant Professor of Music*  
B.S., University of Minnesota; M.S., University of Idaho; New England Conservatory of Music; Royal Conservatory of Music at Copenhagen, Denmark.
- VERNON GUY MORRISON (1947) *Assistant Professor of Economics*  
B.S., M.A., University of Nebraska; University of Chicago.
- RICHARD L. MORSE (1948) *Assistant Professor of Music*  
B. Mus. Ed., University of Nebraska; University of Michigan; M. Mus., Baylor University.
- SINA M. MOTT (1936) *Associate Professor of Education*  
B.A., Iowa State Teachers College; M.A., New York University; University of Chicago; Ph.D., New York University.
- RENZO E. MUCKELROY (1911) *Professor of Agriculture, Chairman of Department Emeritus (1945)*  
B.S., University of Illinois; M.S., University of Wisconsin.
- ROBERT E. MUELLER (1948) *Instructor in Music*  
B. S., State Teachers College, Milwaukee, Wisconsin; M.M., Northwestern University; University of Wisconsin.
- ROBERT H. MULLER (1949) *Director, University Libraries*  
A.B., Stanford University; A.M., Ph.D., University of Chicago.

- DOROTHY M. MUZZEY (1928) *Assistant Professor of Physical Education for Women*  
B.A., Iowa State Teachers College; M.A., University of Iowa; Columbia University; University of California at Los Angeles.
- CHARLES D. NEAL (1948) *Associate Professor of Education,  
Acting Principal of Allyn Training School*  
B.P.S.M., Indiana University; A.M., University of Illinois; M.S. in Ed., D.Ed., Indiana University.
- JAMES W. NECKERS (1927) *Professor of Chemistry, Chairman of Department*  
A.B., Hope College; M.S., Ph.D., University of Illinois.
- JULIA NEELY (1926) *Associate Professor of English*  
A.B., A.M., Washington University; Kings College, University of London; New York University; St. Louis University; University of Michigan.
- LOIS H. NELSON (1948) *Secretary to the President*  
B.S. in Ed., Southern Illinois University; University of Illinois.
- ANNA KLASSEN NEUFELD (1945) *Assistant Professor of Foreign Languages*  
B.A., Bethel College; A.M., University of Kansas; University of Chicago; University of Wisconsin.
- SUSIE OGDEN (1931) *Assistant Professor of Business Administration*  
B.Ed., Southern Illinois University; A.M., University of Illinois; Columbia University; University of Tennessee. Leave of Absence, 1948-49.
- CHARLES J. PARDEE (1929) *Assistant Professor of History*  
A.B., Hiram College; B.D., Union Theological Seminary; A.M. University of Chicago; Columbia University.
- CHARLES PATERSON (1936) *Assistant Professor, University High School*  
Carnegie Conservatory of Music, Dunfermline, Scotland; Chicago Conservatory of Music; Cincinnati Conservatory of Music; B.Ed., Southern Illinois University.
- VERA LOUISE PEACOCK (1930) *Professor of Foreign Languages,  
Chairman of Department*  
A.B., A.M., Ph.D., Cornell University; Universite de Grenoble; R. Università Italiana Per Stranieri, Perugia; Universidad Nacional de Mexico; University of Missouri.
- LOUIS PETROFF (1940) *Assistant Professor of Sociology*  
B.A., University of Wisconsin; A.M., Ph.D., University of Southern California.
- WILLIAM NEAL PHELPS (1941) *Professor of Education*  
B.Ed., Southern Illinois University; A.M., University of Illinois; Ed.D., Colorado State College of Education.
- FRANCES PHILLIPS (1944) *Instructor in Health Education*  
B.Ed., Southern Illinois University; M.A., Teachers College, Columbia University; University of Minnesota; University of Kansas.
- JOHN M. PIERCE (1892-4; 1899) *Associate Professor of German, Emeritus (1935)*  
A.B., Washington University; A.M., Harvard.
- MINNIE MAE PITKIN (1945) *Instructor, Assistant in Personnel*  
A.B., Texas State College for Women; University of Illinois; M.S., University of Colorado.
- WILLIAM A. PITKIN (1945) *Associate Professor of Social Sciences*  
A.B., DePauw University; University of Wisconsin; M.A., University of Colorado; University of Indiana; Ph.D., University of Texas.
- DALIAS A. PRICE (1947) *Assistant Professor of Geography*  
A.B., A.M., University of Illinois; University of Wisconsin.
- MABEL PULLIAM (1945) *Director, Student Housing*  
Southern Illinois University.
- JOSEPH STANLEY RAFALCO (1947) *Associate Professor of Zoology*  
B.A., Villanova College; M.S., Ph.D., University of Pennsylvania.
- TED R. RAGSDALE (1925) *Professor of Education, Director of Teacher Training*  
B.Ed., Southern Illinois University; M.A., University of Illinois; Ph.D., St. Louis University.
- WILLIAM L. RANDLE (1945) *Instructor, Veterans Guidance Center*  
B.Ed., Southern Illinois University; Northwestern University; M.S. in Ed., Southern Illinois University.
- VICTOR RANDOLPH (1935) *Associate Professor of Education*  
B.Ed., Southern Illinois University; M.A., Teachers College, Columbia University; Ph.D., George Peabody College for Teachers.
- ANNA CAROLINE RAUT (1948) *Assistant Professor of Microbiology,  
Biological Research Laboratory*  
B.S., University of Illinois; George Washington University; Cornell University; Ph.D., Washington University.
- GLICE PHILLIPS RECTOR (1946) *Instructor, Assistant to the Student Life Deans*  
B.Ed., M.S. in Ed., Southern Illinois University; University of Denver.
- ALEX REED (1946) *Assistant Professor in Agriculture*  
B.S., University of Illinois; Colorado State College; M.S., University of Illinois.
- HENRY J. REHN (1945) *Dean of the College of Vocations and  
Professions, Professor*  
B.S., Oregon State College; M.B.A., University of Oregon; Ph.D., University of Chicago; C.P.A., Washington.

- EVELYN DAVIS RIEKE (1937) *Assistant Professor, Dean of Girls, University High School*  
B.S., M.A., M.Ed., University of Illinois; University of Chicago.
- LULU D. ROACH (1930) *Assistant Professor of Art*  
Southern Illinois University; Ph.B., University of Chicago; Fine Arts School, Washington University.
- LOUIS D. RODABAUGH (1947) *Associate Professor of Mathematics*  
A.B., Miami University in Ohio; M.A., Ph.D., Ohio State University.
- ORA ROGERS (1928) *Assistant Professor, Allyn Training School*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- MADGE TROUTT SANDERS (1924) *Assistant Professor, University High School*  
B.Ed., Southern Illinois University; A.M., University of Chicago; University of Southern California; St. Louis University; New York University.
- WILLIAM B. SCHNEIDER (1936) *Professor of English, Chairman of Department*  
A.B., A.M., University of Illinois; Ph.D., University of Chicago.
- J. HENRY SCHROEDER (1923) *Professor of Industrial Education*  
B.Ed., Southern Illinois University; M.S., University of Iowa; University of Missouri.
- ROBERT W. SCHWARTZ (Winter 1948-49) *Instructor in Government*  
A.B., University of Illinois; L.L.B., University of Alabama.
- JOHN WINFIELD SCOTT (1947) *Professor of Business Administration, Chairman of Department*  
A.B., University of Wichita; M.A., University of Texas; Ph.D., University of Chicago.
- R. A. SCOTT (1923) *Professor of Chemistry*  
B.S., M.S., Ph.D., University of Illinois.
- SHELBY S. SHAKE (1944) *Assistant Professor, University High School*  
B.S., Indiana State Teachers College; Huntington College; Purdue University; M.S., Indiana University; University of Notre Dame.
- MARJORIE SHANK (1923) *Registrar, Associate Professor of Geography*  
B.A., University of North Dakota; M.A., Clark University; University of Chicago; London School of Economics; St. Louis University.
- ESTHER SHUBERT (1940-42, 1943) *Librarian, Assistant Professor*  
B.Ed., Eastern Illinois State College; B.S. in L.S., M.S. in L.S., University of Illinois.
- HELEN A. SHUMAN (1945) *Dean of Women, Associate Professor*  
B.Ed., Illinois State Normal University; A.M., University of Illinois; Teachers College, Columbia University; Northwestern University.
- GLADYS L. SMITH (1931) *Assistant Professor, University High School*  
B.Ed., Southern Illinois University; M.A., Teachers College, Columbia University; University of Chicago; University of Colorado; University of Iowa.
- MADELEINE M. SMITH (1929) *Assistant Professor of Foreign Languages*  
A.B., A.M., Northwestern University; University of Chicago; Middlebury College French School; Yale University; Leave of Absence, 1947-49.
- MAE TROVILLION SMITH (1919-1931; 1943) *Instructor in English*  
A.B., A.M., Indiana University; George Peabody College for Teachers.
- ZITA SPRADLING (1944) *Instructor, University High School*  
B.S., M.S., University of Illinois.
- PATRICIA STAHLHEBER (1947) *Instructor in Foreign Languages*  
B.S. in Ed., Southern Illinois University; A.M., University of Illinois; Universidad de San Carlos de Guatemala.
- HELEN RUTH STARCK (1944) *Instructor, University High School*  
B.S., University of Illinois; M.Ed., Colorado State College.
- ROBERT A. STEFFES (1946) *Instructor in Journalism, Acting Chairman of Department*  
B.S., South Dakota State College; M.S., Syracuse University.
- JEAN STEHR (1944) *Instructor in Physical Education for Women*  
B.S., M.A., Texas State College for Women.
- HILDA A. STEIN (1925) *Associate Professor of Zoology*  
B.Ed., Southern Illinois University; M.S., University of Illinois; Ohio State University; Oceanographic Laboratory, University of Washington.
- ELIZABETH OPAL STONE (1929-1936; 1946) *Assistant Professor*  
B.S., Northwest Missouri State Teachers College; B.S. in L.S., M.S. in L.S., University of Illinois.
- HAL STONE (1946) *Instructor in Chemistry*  
B.Ed., Southern Illinois University; M.S., University of Alabama.
- JOHN W. STOTLAR (1948) *Instructor, University High School*  
B.S. in Ed., Southern Illinois University; M.S., Indiana University.
- MARJORIE W. STULL (1942) *Librarian, Instructor*  
B.Ed., Southern Illinois University; Brown University; B.S. in L.S., University of Illinois.
- WILLIS G. SWARTZ (1930) *Professor of Government, Chairman of Department*  
B.A., M.A., Ph.D., University of Iowa; Clark University.

- C. HORTON TALLEY (1948) *Professor of Speech, Chairman of Department*  
B.A., Simpson College; M.A., Northwestern University; Ph.D., State University of Iowa.
- HARLEY R. TEEL (1935) *Assistant Professor as Principal of Brush Training School*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- CHARLES D. TENNEY (1931) *Administrative Assistant to the President,*  
*Professor of English and Philosophy;*  
*Acting Chairman, Department of Philosophy*  
A.B., Gooding College; A.M., University of Oregon; Harvard University; Ph.D., University of Oregon.
- WELLINGTON A. THALMAN (1929) *Professor of Education*  
A.B., Ellsworth College; A.M., Ph.D., Cornell University; University of Chicago.
- EDNA SPIRES TRAVIS (1948) *Instructor in English*  
B.S. in Ed., M.S. in Ed., Southern Illinois University.
- MADELYN SCOTT TREECE (1937-38; 1940) *Instructor, Allyn Training School*  
B.Ed., Southern Illinois University; A.M., University of Chicago; Northwestern University.
- J. CARL TROBAUGH (1942) *Manager, University Bookstore*  
B.S., Southern Illinois University.
- LOWELL R. TUCKER (1947) *Associate Professor of Agriculture,*  
*Acting Chairman of Department*  
B.S., University of Illinois; M.S., University of New Hampshire; University of Minnesota; Ph.D., Massachusetts State College.
- WILLIAM J. TUDOR (1948) *Associate Professor of Sociology*  
B.S., M.S., Ohio State University; Cornell University; Ph.D., Iowa State College.
- MAX W. TURNER (1947) *Associate Professor of Government*  
B.Ed., Eastern Illinois State College; M.A., Ph.D., University of Iowa.
- ROBERT C. TURNER (1947) *Associate Professor of English*  
B.A., B.S. in Ed., M.A., University of Missouri; University of Chicago; Ph.D., Yale University.
- KENNETH A. VAN LENTE (1931) *Professor of Chemistry*  
A.B., Hope College; M.S., Ph.D., University of Michigan.
- RUBY VAN TRUMP (1928) *Assistant Professor, Allyn Training School*  
B.S. in Education, Southwest Missouri State Teachers College; A.M., George Peabody College for Teachers.
- MAXINE VOGELY (1947) *Instructor, Director of Anthony Hall*  
A.B., B.Ed., University of Cincinnati; University of Wisconsin; A.M., Cornell University.
- HELEN MATTHES VOGLER (1920) *Instructor in Music*  
Chicago Musical College; Julliard School of Music.
- FLOYD V. WAKELAND (1939) *Associate Professor of Music*  
B. of Music, Illinois Wesleyan University; Christiansen Choral School; M.Mus., Bush Chicago Conservatory; Westminster Choir College.
- FOUNT G. WARREN (1913) *Professor of Education, Chairman of Department*  
A.B., McKendree College; A.M., University of Chicago; St. Louis University.
- LORRAINE WATERS (1947) *Instructor, University Museum*  
B.A., M.S. in Ed., Southern Illinois University.
- BEN P. WATKINS (1946) *Assistant Professor of Art,*  
*Acting Chairman of Department*  
A.A., Whitworth College; A.B., M.A., Louisiana State University; Tulane University; Phillips University.
- WALTER B. WELCH (1938) *Associate Professor of Botany,*  
*Chairman of Department*  
A.B., Wabash College; S.M., Ph.D., University of Chicago.
- FLORENCE A. WELLS (1927) *Assistant Professor, University*  
*High School, Emerita (1946)*  
B.Ed., Southern Illinois University; A.M., University of Illinois.
- JOHN S. WHARTON (1945) *Assistant Professor of Music*  
B.Mus., Oberlin Conservatory of Music; M.Mus., American Conservatory of Music.
- JAMES J. WILKINSON (1948) *Instructor in Physical Education for Men*  
B.S., M.S., Indiana University; Southern Illinois University.
- GEORGIA G. WINN (1947) *Associate Professor of English*  
A.B., East Texas State Teachers College; A.M., George Peabody College; Ph.D., University of Pittsburgh.
- ERNEST R. WOLFE (1948) *Supervisor, Veterans Housing Projects*  
A.A., Blackburn College; Illinois State Normal University; Shurtleff College.
- EUGENE S. WOOD (1949) *Instructor, University High School*  
Southern Illinois University; B.S., University of Illinois.
- LUCY K. WOODY (1911) *Professor of Home Economics*  
Indiana State Teachers College; Stout Institute; University of Washington; B.S., M.A., Teachers College, Columbia University.
- ALICE KELSEY WRIGHT (1925) *Assistant Professor of Mathematics*  
A.B., Indiana University; M.A., University of Illinois.

- JOHN I. WRIGHT (1925) *Associate Professor of History*  
Ph.B., A.M., University of Chicago.
- OTIS B. YOUNG (1929) *Professor of Physics and Astronomy,  
Chairman of Department*  
A.B., Wabash College; M.A., Ph.D., University of Illinois.
- CHARLOTTE ZIMMERSCHIED (1927) *Assistant Professor of Physics and Astronomy*  
B.A., M.A., University of Minnesota; University of Chicago; Columbia University; St. Louis University.

## FACULTY ASSISTANTS, 1948-49

- ELMER FRANKLIN ADAMS (1948) *Industrial Education*  
B.S., Southern Illinois University.
- VERN E. BAIRD (1948) *Biological Research Laboratory*  
B.S., Southern Illinois University.
- DOROTHY SAGER BELTZ (1949) *Teacher Training*
- ELIZABETH BISCHOF (1948) *English*  
A.B., Lawrence College; Southern Illinois University.
- MAXINE H. BLACKMAN (1948) *Information Service*  
A.B., Southern Illinois University.
- HENRY M. BORELLA (1947) *Physics*  
B.S., Southern Illinois University.
- LORA BOSLEY (1945) *Rural Education*  
Southern Illinois University.
- MABEL BRACEWELL (1947) *University High School*  
B.Ed., Southern Illinois University; A.M., University of Michigan.
- EDNA BRADLEY (1945) *Physiology, Nurse*
- HARRY WESLEY CARTER (1948) *Rural Education*  
B.S. in Ed., Southern Illinois University.
- MARTHA M. CLARK (1948) *English*  
A.B., University of Illinois.
- SUE JACKSON EBERHART (1948) *Registrar's Office*  
Southern Illinois University.
- LUCILLE H. FLIGOR (1944) *Rural Education*  
B.S. in Ed., Southern Illinois University.
- HELEN GOETZ (1946) *Physiology, Nurse*
- JUANITA GROSS (1946) *English*  
B.S., Carthage College; University of Cincinnati.
- THERESA IVANUCK (1947) *Physical Education for Women*  
B.S. in Ed., Southern Illinois University.
- PAULINE W. LANDER (1948) *Physiology, Nurse*
- GERTRUDE LINDEGREN (1947) *Biological Research Laboratory*
- NAOMI MANERING (1942) *Physiology, Nurse*
- WALTER MAZUREK (1946) *Physical Education for Men*  
B.A., Westminster College.
- JANE N. MEZO (1948) *Physiology, Nurse*
- BALAJI D. MUNDKUR (1948) *Biological Research Laboratory*  
B.S., Royal Institute of Science (Bombay).
- EARL W. MURRAY (1948) *Registrar's Office*  
B.S. in Ed., Southern Illinois University.
- JEANETTE NECKERS (1946) *Speech*  
A.B., Hope College; Southern Illinois University; Northwestern University.
- WILLIAM E. O'BRIEN (1948) *Physical Education for Men*  
B.S. in Ed., Southern Illinois University; Indiana University.
- LORETTA KEOUGH OTT (1948) *Dean of Women's Office*  
B.S. in Ed., Southern Illinois University.
- JOSÉ LUIS REYES (1947) *Foreign Languages*  
B.A., B.S., National University of Mexico; National Engineering and National Architectural Schools in Mexico; University of Maryland; Southern Illinois University.
- RUBY MATTHEWS STRAKER (1946) *Extension and Placement Services*  
B.S. in Ed., Southern Illinois University.
- JULIUS R. SWAYNE (1948) *Museum*  
B.S., B.S. in Ed., Southern Illinois University.
- ERNESTINE COX TAYLOR (1948) *Music*  
B.S. in Ed., Southern Illinois University.
- NORMA TROTTER (1948) *Registrar's Office*  
B.S. in Ed., Southern Illinois University.
- WALTER M. TROUTMAN (1947) *Industrial Education*  
B.Ed., Southern Illinois University.

- IRMA TATE WARD (1946) *Botany*  
B.Ed., Southern Illinois University.
- RUTH BOZARTH WOOD (1949) *University High School*  
B.Ed., Southern Illinois University; M.A., University of Illinois.
- ELEANOR YOUNG (1946) *Speech*  
A.B., Trevecca College; Curry School of Expression; Northwestern University.

## GRADUATE ASSISTANTS, 1948-49

- CHARLES B. ABLETT *Mathematics*  
B.S., Southern Illinois University.
- ROBERT ASHBY *Child Guidance Clinic*  
B.A., Southern Illinois University.
- H. VIRGIL BARNARD *English*  
B.S. in Ed., Central Missouri State College; Southern Illinois University.
- ALBERT T. CRAIG *Library*  
B.S. in Ed., Southern Illinois University.
- ROBERT F. ETHERIDGE *Dean of Men's Office*  
B.A., Southern Illinois University.
- WILLIAM T. HOLDER *Government*  
B.S. in Ed., Southern Illinois University.
- NORA THERESA KREHER, (1949) *Botany*
- ARLEY W. LUDWIG *University High School*  
B.S. in Ed., Southern Illinois University.
- WILLIAM MCBRIDE *Health Education*  
B.S. in Ed., Southern Illinois University.
- WALTER H. McDONALD *Geography*  
B.S., Southern Illinois University.
- NEDRA ALICE SEIBERT *English*  
B.A., Southern Illinois University.
- LEBERN N. MILLER *Allyn Training School*  
B.S. in Ed., Southern Illinois University.
- FRANK B. MOAKE *English*  
B.S. in Ed., Southern Illinois University.
- JOHN W. MULKIN *Information Service*  
B.A., Southern Illinois University.
- GUS E. PARIS *History*  
B.S. in Ed., Southern Illinois University.
- HORTON E. PRESLEY *English*  
B.A., Southern Illinois University.
- WILLIAM F. PRICE *Alumni Service*  
B.A., Southern Illinois University.
- EMMA F. PRITCHETT *English*  
B.Ed., Southern Illinois University.
- ROBERT PULLIAM *English*  
B.A., Southern Illinois University.
- ALBERT JENE SHAFTER *Sociology*  
B.A., Southern Illinois University.
- VIRGINIA I. SPILLER *History*  
B.Ed., B.A., Southern Illinois University.
- JAMES C. SPRINGS *Mathematics*  
B.Ed., Southern Illinois University.
- RAMON S. SWISHER *Zoology*  
B.S. in Ed., Northern Illinois State Teachers College; Southern Illinois University.
- JUNE FULKERSON TODD *English*  
B.S. in Ed., Southern Illinois University.
- WILLIAM CARL WIMBERLY *Government*  
B.S. in Ed., Southern Illinois University.
- HAYWARD L. WOOD *Government*  
B.S. in Ed., Southern Illinois University.

# GENERAL INFORMATION

## Location and Campus

Southern Illinois University is located in Carbondale, in Jackson County, in the hill country of Southern Illinois. The city of Carbondale is a railroad center and is easily accessible from all directions. Despite the name, Carbondale, and its early history, there is now little coal mining in the immediate vicinity. The region, especially to the south and west, grows peaches and apples. A state park, Giant City Park, is a popular resort to the south, and Crab Orchard Lake, to the east.

The University occupies a growing campus at the southern edge of the city. Here are located eight large buildings and a number of small structures. A new powerhouse and a training school are under construction. The football field, the University farm, and recent additions to the campus comprise more than 490 acres.

Some of the activities of the University extend beyond the limits of the campus. The Extension Division, the teacher training, the traveling museum exhibits, and the radio programs reach many portions of Southern Illinois.

## Academic Standing

Southern is accredited by the Commission on Colleges and Universities of the North Central Association in Group IV (as a University), the American Association of Colleges for Teacher Education, the Association of American Colleges, and the National Association of Schools of Music.

Women graduates of Southern are eligible for national membership in the American Association of University Women.

## History

Southern Illinois Normal University was established in 1869. In 1947 it was given the present name, Southern Illinois University.

Southern's first building was authorized by the State Legislature of 1869, and contributions were made also by citizens of Jackson County. It was completed in 1874. In the summer session of that year, 53 students were enrolled, and in the autumn term, 150. These enrollments may be compared with the figure of 3000 in the autumn of 1948.

For some years after its establishment, Southern operated as a two-year normal school. Then in 1907 it became a four-year institution. In 1943 were authorized the graduate school and two new undergraduate colleges, Liberal Arts and Sciences, and Vocations and Professions, offering the Bachelor of Arts and Bachelor of Science degrees. At that time, also, the teacher-training functions were assembled in the new College of Education. The Bachelor of Music degree was approved in 1947. In 1948, the Graduate School was authorized to give the Master of Arts and Master of Science degrees in fields other than education.

The presidents have been

Robert Allyn	1874-1892
John Hull	1892-1893
Harvey W. Everest	1893-1897
Daniel B. Parkinson	1897-1913
Henry W. Shryock	1913-1935
Roscoe Pulliam	1935-1944
Chester F. Lay	1945-1948
D. W. Morris	1948-

## Southern Illinois University Foundation

With the authorization of the Teachers College Board, a non-profit corporation has been set up and chartered by the state under the name, Southern Illinois University Foundation. It is authorized to receive gifts for the benefit of the University, to buy and sell property, and otherwise to serve the University.

It respectfully asks alumni and other citizens of Southern Illinois to consider making gifts and bequests to benefit the University. Such gifts should be conveyed to the Foundation, with proper stipulation as to their uses. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills, and suitable forms for gifts and memorials. Large or small gifts to the library will be appreciated; likewise gifts for special equipment, buildings, endowment of professorships in particular subjects, gifts to student loan funds and scholarship funds, gifts for the use of foreign students, and endowments for particular sorts of research. Any gifts or bequests can be given suitable memorial names.

The present officers of the Foundation are

President, Mr. E. M. Stotlar, Marion, Illinois.

Vice President, Mr. Roy Vail Jordan, Southern Illinois University.

Treasurer, Mr. Edward V. Miles, Southern Illinois University.

Secretary, Mrs. Lois H. Nelson, Southern Illinois University.

## Alumni Association

The Alumni Association is the general organization of the graduates and former students of Southern Illinois University. Any person who has attended Southern for as much as one term is eligible for membership. Annual dues of the association are \$2.00, and life membership can be obtained for \$50.00, payable, if desired, in ten annual installments.

In addition to the general association, there are local alumni clubs in various parts of Southern Illinois and throughout the country. The *Southern Alumnus* is the quarterly publication of the association. For information, address Dr. Orville Alexander, Director of Alumni Services, Southern Illinois University.

## American Association of University Women

Women graduates of Southern Illinois University are eligible for membership in the American Association of University Women. Graduate women students enrolled in this University who hold a degree from this institution or an approved degree from another school will be welcomed as members of the Carbondale Branch of A. A. U. W.

When the Association of Collegiate Alumnae was formed, in 1882, its foremost aims were the development of opportunities for higher education for women, and the creation and maintenance of higher standards in those institutions admitting women students. As a means toward the realization of these aims, the Association restricted its membership to the alumnae of colleges and universities which met high requirements specified by the Association. These requirements concern not only academic excellence, but the general status of women in the institutions. With the emergence of the A. C. A. into the A. A. U. W., the Association has continued carefully to restrict its membership.

Southern is not only accredited by the Association, but also holds corporate membership. For 1945-49 a member of Southern's faculty was president of the Illinois Division.

## STUDENT LIFE

### Dramatics and Speech

The Little Theater offers interested students opportunities for practical experience in play production under capable faculty direction. In addition to the regular season of five or six plays each year, this group is called upon frequently for productions suitable for special occasions. The Little Theater sponsors an annual one-act play contest open to all students, with awards given to the winning organization, and medals to outstanding performers. Plays presented by professional actors are occasionally included in the University entertainment program.

Students making significant contributions to campus speech activities and representing the University in this field may be eligible for membership in the local chapter of Pi Kappa Delta, national forensic fraternity. Southern's Upsilon Chapter was organized in 1942.

Efforts throughout this area on behalf of better speech are also furthered by the Egypt Speech Festival, held each year, to which all high schools in Southern Illinois are invited. This festival includes events in poetry reading, serious and humorous readings, declamation, original oratory, extemporaneous speaking, group discussion, and debate.

### Student Publications

Student publications include the *Egyptian*, a weekly newspaper conducted as a laboratory for students desiring to earn Journalism credit, or as an extracurricular activity for those desiring to participate without earning credit; the *Obelisk*, the University yearbook; and the *Scarab*, a literary magazine, sponsored by Sigma Tau Delta, English fraternity. Editorships and staff memberships are open on trial to all students.

### Athletics

The athletic departments sponsor a full program of inter-collegiate competition in football, basketball, baseball, track, cross country, golf, tennis, and gymnastics. The University is a member of the National Collegiate Athletic Association, the National Intercollegiate Athletic Conference, and the Illinois Intercollegiate Athletic Conference. An extensive intramural program makes it possible for all students to enjoy exercise and recreation through sports.

### Student Religious Life

The churches of Carbondale take an active interest in the religious life of the students, encouraging them to affiliate with a congregation of their choice during their residence at the University, and offering special programs of religious activities keyed to the interests of student groups. Two religious foundations are in active operation near the campus. Some courses of study are offered for which the University accepts credit toward graduation.

The University sponsors each year a "Religious Emphasis Week," during which period visiting speakers discuss the personal, social, and cultural values of religion from a non-sectarian viewpoint.

### Social Organizations

Other student organizations include national and local professional fraternities, religious groups, literary societies, student cooperative residential

groups, social fraternities, departmental and special-interest clubs, and honorary organizations. These are listed and described in detail in the handbook "Southern Style", issued to each student upon his first enrollment.

## Student Self-Government

Each year the student body elects members from each class to serve on the Student Council. The Council acts as a policy-making body for student activities, dealing with such problems as elections, social functions, student health, and permanent improvements. Through the Council, members of the student body are recommended to serve on some standing committees of the University, thereby integrating student and faculty-administration points of view.

## Music, Lectures, and Entertainment

Each year the Committee on Lectures and Entertainment brings outstanding personalities to the campus. For the school year 1948-1949 the following were presented: Major George Fielding Eliot, Leland Stowe, the La Meri Dance Company, and the Chicago Festival Opera Company in "Gala Night at the Opera."

The same University committee cooperates with the Carbondale Community Concert Association, thus entitling all students to attend the community concerts, which are presented in Shryock Auditorium. In 1948-1949, the list of artists included Helen Traubel, soprano; Whittemore and Lowe, duo-pianists; The Revelers, male quartet; and Tossy Spivakovsky, violinist.

Musical presentations by student organizations and individual students are offered to the public at various times throughout the year. Regular concerts are given by the Orchestra, the Band, the Choir, and the Madrigal Singers. Properly qualified students are presented from time to time in solo recitals.

During the Christmas season, a performance of Handel's oratorio *The Messiah* is given in Shryock Auditorium by the Southern Illinois Oratorio Society, made up of students and singers of Southern Illinois, soloists, and the University Symphony Orchestra. In 1948 the soloists were Edna Thompson, soprano; Carol Werner, contralto (a Southern graduate); John Tufts, tenor; and Carl Nelson, bass-baritone.

## Radio Programs

The University maintains a varied program of radio broadcasts, some originating on the campus and others in local radio studios. Three stations, WCIL, Carbondale; WEBQ, Harrisburg; and WJPF, Herrin, cooperate in the project. Both students and faculty members participate in the various broadcasts, which are designed to serve the area by presenting entertainment and information and to give interested students an opportunity for training in radio methods.

# LIBRARIES AND MUSEUM

## Wheeler Library

The University Libraries consist of 103,600 volumes, which include bound government documents, bound periodicals, and books. During 1948, 955 periodicals were received, 95 newspapers, and five additional newspapers in the microfilm edition.

Branches of the University Library include the Allyn Elementary Library, the University High School Library, and the Curriculum Library. The Elementary and University High School Libraries contain 8200 volumes, and the Curriculum Library consists of 2360 books and 6500 pamphlets.

The University Library has long been officially designated to receive the publications of the United States government. Recently it has been made a depository for the Army Map Service, from which source the library will receive 50,000 maps and related materials.

In addition to the collection of books, periodicals, pamphlets, and maps, the resources of the library are being augmented by phonograph records, microfilms, filmstrips, and musical scores. From time to time, various alumni and friends have enriched the library's holdings through gifts of books, periodicals, and pamphlets.

The University Library is open on school days from 7:45 a.m. to 10 p.m.; on Saturdays, from 8:30 a.m. to 4:30 p.m. The Reference Room is open from 2:00-5:00 p.m. on Sundays. Special hours are announced for summer terms and holiday periods.

## Clint Clay Tilton Library

The University received, in 1944, from the late Clint Clay Tilton, then a retired newspaper publisher of Danville, Illinois, the gift of his entire library, including furnishings as well as books, plaques, pictures, and busts. Mr. Tilton was a well known collector of Lincolniana and Americana. To the original gift, comprising 2100 items, have been added, by other donors and by purchase, more than six hundred volumes, dealing principally with Lincoln, the Civil War period, and regional history.

Mr. C. T. Houghten, president of the Goodluck Glove Company, Carbon-dale, has made a cash gift of \$500.00.

This collection is housed in Room 206, Old Main, a room also temporarily used for a seminar in history. Its books may be used freely by the students, faculty, and general public; but no books are subject to loan.

Professor E. G. Lentz is Director.

## Museum

The Southern Illinois University Museum was established shortly after the opening of the school in 1874. At first, the emphasis was placed on the natural sciences; however, in 1939, the program was enlarged to include materials in the social studies field.

The museum now has collections totaling more than 12,500 items in the field of the natural sciences. In the social field, approximately 4500 cultural objects, 2000 bound volumes, together with many thousands of old newspapers, magazines, letters, maps, and pictorial items have been secured.

The permanent exhibits are intended to stimulate an interest in the area served by the University. In the field of history, pioneer life is vividly portrayed in a series of 20 miniature dioramas as well as in the larger displays which feature such pioneer crafts as cloth-making, soap-making, and candle-making. An organized exhibit of firearms has recently been added.

The Irvin Peithman collection of Indian artifacts, gathered in Southern Illinois and on loan to the museum, is easily the outstanding collection of such materials gathered in the area, and the wood carvings by Fred Meyer have attracted national attention. Six of these carvings depict typical Southern Illinois pioneers.

In the natural sciences, research collections of local flora and fauna are maintained in such fields as herpetology (1000 specimens); mammology (200 specimens); botany (5000 specimens); osteology (150 skeletons); and mollusca (1000 specimens). A large and varied collection of geological materials awaits classification.

The museum offers a variety of extension services, including classroom lectures and an organized school loan program. In co-operation with the Audio-Visual Aids Department, museum teaching units are being distributed over an established circuit of Southern Illinois schools. Individual items are also loaned upon request.

Museum publications also stress subjects of local interest. The publications available at the present are *Key to the Amphibians and Reptiles of Illinois*, *Randolph County Notes*, and *Jackson County Notes*. The third of a series of county histories, *Pope County Notes*, will be published soon.

Visitors are welcome at the Museum, which is located on the third floor of Parkinson Laboratory. It is open on weekdays from 8 a.m. until 5 p.m. and from 8 a.m. until noon on Saturdays.

## UNIVERSITY SERVICES

### Veterans' Services

Services have been arranged to meet the special needs of students who are veterans, to assist them in filing claims, to advise them during training, and to help them obtain employment when the educational program has been completed.

The veteran should go to the Office of the Dean of Men for information concerning his benefits under Federal and State Laws, and to receive necessary directions for securing these benefits, for entering the University, and for consulting persons who will be concerned with his progress thereafter. The other offices concerned in these services are the Veterans Administration Guidance Center, the Illinois Veterans Commission, and the Registrar's Office.

For information as to University credit for military experience see page 32.

### Federal Assistance for Veterans of World War II

Any man or woman who was in active military or naval service after September 16, 1940, and prior to October 6, 1946, who served at least 90 days, and who was discharged other than dishonorably is eligible for educational benefits under the Serviceman's Readjustment Act (Public Law 346, "G.I. Bill") or the Vocational Rehabilitation Act (Public Law 16).

Tuition, fees, and specified equipment and supplies will be paid for by the U. S. Government through the Veterans Administration. In addition, \$75.00 a month will be paid for subsistence if the veteran has no dependents, \$105.00 a month if he has one dependent, and \$120.00 a month if he has two or more dependents.

Current publications give complete details of the training program under Public Law 346 and Public Law 16.

Disabled veterans may be eligible for training under Public Law 16. Application for training should be made to the nearest Veterans Administration Office, or to the Veterans Administration Guidance Center, 1014 S. Thompson Street, Carbondale, Illinois. Veterans interested in attending college under Public Law 346 should also contact these offices.

### State Aid and Services to Veterans

*The Military Scholarship.* "Any person who served in the army, navy or marine corps of the United States, during World War I, not including members of the Students' Army Training Corps, or any time between September 16, 1940 and the termination of World War II, who, at the time of entering upon such service, was a resident of this State, and who has been honorably discharged from such service, and who possesses all necessary entrance requirements shall, upon application and proper proof, be awarded a scholarship to a state normal university or teachers college or the University of Illinois. Such persons shall also be entitled, upon application and proper proof, to enroll in any extension course offered by a state normal university or teachers college or the University of Illinois, without the payment of tuition fees.

"Any person who so served and who, at the time of entering upon such service, was a student at any state normal university or teachers college or the University of Illinois, and who was honorably discharged from such service, shall, upon application and proper proof, be awarded a scholarship entitling him to complete his course of study at such institution, but shall not be entitled to more than four years of gratuitous instruction."

This amounts to \$80.00 a year, a total of \$320.00.

*The Governor's Committee for Veterans Rehabilitation and Employment.* This Committee will assist any veteran but gives aid primarily to ex-service men and women with impaired health or with limited physical abilities. Such persons may receive at State expense vocational training and education, plus health restoration treatments and prosthetic appliances. After proper training, they are given employment assistance.

Further information concerning services to veterans may be obtained from the Dean of Men.

## Veterans Administration Guidance Center

Southern has been chosen as the location for the Veterans Administration Guidance Center in Southern Illinois because of its excellent facilities for testing and its convenient location in respect to the thirty-four counties involved.

The purpose of the Center is to furnish vocational guidance to all veterans in this region who are eligible for training under Public Law 16, and to assist such veterans in planning their vocational rehabilitation programs. All veterans of World War II who have service connected disabilities for which compensation is being paid are eligible for this service.

Veterans who are without service connected disabilities and who are eligible for training under Public Law 346, may have this service if they desire.

All veterans who are in training under either law must have prior approval of the training officer before making a major change in course or transferring to another university or training facility. Otherwise, no subsistence will be paid.

Counselors from Southern's faculty supply the testing and counseling service. The United States Veterans Administration Office is located at 1014 South Thompson Street, Carbondale.

## University Publications

Publications issued by Southern Illinois University include regular session, summer session, and Graduate School catalogs; *The Annual Report of the Business Manager*; *Our Museum*; *The Southern Alumnus*, quarterly, published for alumni; Faculty-Student Directory; and special bulletins issued by different departments and branches of the University.

## Placement Service

The Placement Service is maintained for the benefit of students, graduates, and others who have attended the University, and who desire to find employment in the teaching field, in the professions, or in business. It also serves employers by helping them locate personnel.

The facilities of the Placement Service are free to candidates seeking positions, as well as to employers. Before graduation each student is requested to register with the Placement Service. Credentials are sent to prospective employers at the request of either the candidate or the employer.

The Placement Service is a member of the National Institutional Teacher Placement Association and also of the Teacher Placement Association of Illinois Colleges and Universities.

Inquiries should be addressed to Raymond H. Dey, Director of the Placement Service.

## Student Employment

The *Student Employment Service*, at the office of the Dean of Men, assists students, whether men or women, to earn part of their expenses. Since it is impossible to guarantee work to every applicant, prospective students who expect to earn part of their expenses, and who do not have definite appointments to positions before coming to college, should have means of support for at least one term. Two types of work are available—state and private:

(a) *State Employment* on a part-time basis is provided for a number of students in the following fields: clerical, typing, and stenographic; library, laboratory, and museum; research and survey; agricultural, and gardening; janitorial, maintenance, and repair; police and security.

Students so employed are paid according to an established schedule in which rates are based upon off-campus experience as well as upon the number of years of satisfactory service to the University.

(b) Private employment is sometimes secured by the students themselves, but requests for student help often come to the campus. These calls are continuous throughout the year and usually require immediate placement.

Requests for application forms should be made to the Dean of Men. Each applicant is urged to call for an interview and to learn about employment possibilities.

For information as to assistantships for graduate students, see page 39, or write to Dr. W. G. Swartz, Chairman of the Graduate Studies Committee.

## Housing of Students

Women students of the University may find accommodations in Anthony Hall. Students of either sex may reside in private homes in Carbondale or in organized residential houses. Each unmarried undergraduate student, not living with parents or relatives, is required to live in a place approved by the University. Applications for exceptions or interpretations should be addressed to the Housing Chairman, who will act with the Dean of Men or the Dean of Women.

### Anthony Hall

Anthony Hall, the dormitory for women, is conveniently located on the south side of the campus. It was built in 1913 and named by the Carbondale Women's Club in honor of Susan B. Anthony. The hall has accommodations for 120 women. The rooms are attractively furnished, and each has hot and cold water. All linens and one blanket are provided, but students are expected to supply curtains, bedspreads, and extra blankets. Meals are planned by a trained dietitian.

The cost of room and board at Anthony Hall is \$10.00 a week. The University reserves the right to raise the rate, should it become necessary. A student whose application is accepted is required to pay a reservation fee of \$5.00. Checks should be made payable to the University. No reservation fees are accepted until a definite reservation can be made for the student, as this fee cannot be refunded under any circumstances. The fee is applied on the first week's room and board. Applications for rooms should be sent to the Director of the Hall, Miss Maxine Vogely.

### Other Student Homes

Listing of approved rooms for both men and women is centralized in the Dean of Women's Office under the supervision of the Housing Chairman, Mrs. Mabel Pulliam. All requests for information concerning living accommodations should be addressed to her.

Renting rooms by mail is unsatisfactory; students are urged to make a personal inspection before engaging rooms.

Houses accommodating students are subject to inspection at any time during the school year and may be removed from the approved list by action

of the Housing Committee. A set of regulations designed to protect the interests of both householders and students alike is furnished to each householder, and a copy should be secured by each student from one of the offices of the Personnel Deans. The Deans and the Housing Chairman keep in touch with the householders of all rooming places and co-operate with them. Many serious complications will be avoided if all students will consult the Housing Chairman before engaging rooms.

The majority of students living in the private homes of Carbondale pay, on an average, a room rental of \$3.00-\$3.50 per week, with two students in a room.

Meals may be secured in several boarding houses, in private homes near the campus, and in the University-owned cafeteria. The cost of meals varies from \$7.00 to \$10.00 or more per week. Because of economic conditions and changes in food prices, these figures are only approximate estimates of costs.

In addition to the supply of rooms in the homes of Carbondale citizens, room and board for some of Southern's students is provided by a number of organized houses. These include five fraternities, three sororities, seven girls' and two boys' houses.

All persons accepted as students at Southern Illinois University are subject to the house rules and social rules approved by the University's Student Life Committee, and to all other University regulations.

## Apartment

Every effort is made to help married couples secure living accommodations. One hundred five housing units have been constructed on the campus and are available to married veterans only. Ninety-five more units are available at Crab Orchard plant project, ten miles east of Carbondale. Application for quarters in either project should be sent to either the Housing Director or to Mr. Ernest R. Wolfe, Supervisor of the Veterans Housing Projects.

## University Health Service

The University Health Service includes at present two physicians and a staff of registered graduate nurses.

Precautions are taken to prevent illness, and provision is made for the comfort of the sick. The physicians keep office hours, during which any student may have the benefit of diagnosis and advice. Instruction is given regarding the care of health and methods of treating cases of simple illness. A limited amount of hospitalization and medical care is provided without charge beyond the term fee for all resident students.

Every effort is made to guard against communicable diseases. When a student is found to have such a disease, he is promptly excluded from the University, in accordance with the regulations of the State Department of Public Health.

A physical examination is given every student who registers in the University. A complete health record is kept for each student. The record includes prior health history, results of physical examinations, and information concerning health during residence at the University.

## Awards, Benefits, and Loans

*State scholarships* are awarded each year through the Office of the State Superintendent of Public Instruction. Graduates of recognized high schools who are in the highest quarter of their graduating classes are certified by their principals or county superintendents to the Superintendent of Public Instruction, who may award scholarships to the highest ranking graduates who signify their intentions to prepare to teach. Each of these scholarships is valued up to \$80 annually, or \$320 for four years. This covers the student's tuition, activity, and other fees, but does not include laboratory, supplies, and materials fees. Holders of these scholarships must apply for

admission to the University not later than August 15 of the year in which the scholarship is awarded.

The *Illinois Educational Benefit Act* provides academic fees, board, room, book rental, and supplies for children, in the State of Illinois, of veterans of World War I or II who were killed in action, or who died from other causes in World War I or World War II. The maximum allowance is \$150 a year. Orphans of Soldiers, Sailors, and Marines who are not less than sixteen or more than twenty-two years of age are eligible to receive these benefits. Applications should be made to the Director of the Department of Registration and Education, Springfield, Illinois.

For information as to Military Scholarships and rehabilitation, see "University Services," page 25.

*Vocational Rehabilitation*—Under the State Board for Vocational Education is a division for the vocational rehabilitation and placement in remunerative employment of persons whose capacity to earn a living is or has been impaired. This includes those with physical handicaps of various kinds. Approved students receive all registration and tuition fees, book rental, and school supplies for nine months a year.

Persons who wish to consult with a representative are welcome to call at the Carbondale Field Office, located at 205½ East Main Street. Phone, Carbondale 324. The services of this office are available to returning service men and women. Students from other parts of the State now receiving training through the State of Illinois Division of Vocational Rehabilitation may consult any representative of the Board.

*The University Loan Fund.* A maximum loan of \$35 is available to any student who has established a satisfactory record for at least one term. Application may be made at the office of the Dean of Women or the Dean of Men.

A *Loan Fund* has been created by the *Carbondale Rotary Club* for the benefit of Southern Illinois University senior students who may be in urgent need of money for the completion of their university course. Loans are available in units of \$50 a term and are repayable without interest within five months after the applicant has secured gainful occupation. Selection of applicants is based upon financial need, character, scholastic standing, and qualities of leadership.

*The Fourth Object Scholarship Fund* of District 149 *Rotary International* provides scholarships at Southern Illinois University for students from Latin America. The purpose of the fund is to promote international understanding and friendship in harmony with the Fourth Object of Rotary International. Those eligible for benefits from the fund are students who have been graduated from acceptable normal schools in Latin-America, who desire advanced study in any phase of education, and who are scholastically acceptable to Southern Illinois University, and approved by the Fund's Administrative Committee.

The *Carbondale Lions Club* makes available each year through its *Student Loan Fund* financial aid sufficient to pay the tuition of four male students for each term of the regular school year. These loans are made without interest for a period not exceeding one year. The recipient need not be a senior, but must signify his intention to secure employment not later than the September following the date of the loan. Application should be made to Dr. J. W. Neckers of the Chemistry Department.

*25th District, Illinois Federation of Women's Clubs Student Loan Fund.* Students at Southern Illinois University have the privilege of applying for a loan from this organization. Loans up to \$400.00 may be obtained, dependent upon need and merit. Any student is eligible to apply for benefits from this loan fund. There is no interest charged until after graduation, and the loan may be repaid in installments if necessary. Application forms may be secured at the Office of the Personnel Deans.

*The Charles Neely Scholarship Award.* The local chapter of the American Association of University Professors awards annually a prize of \$25 to a member of the junior class who has a high scholastic average.

The Illinois Beta Association of *Phi Beta Kappa* offers an annual prize of \$10 to the senior graduating with the highest scholastic standing from the College of Liberal Arts and Sciences.

*The Betty Rhodes Memorial Scholarship.* The Alpha Delta Chapter of Delta Sigma Epsilon sorority and its alumnae established the Betty Rhodes Memorial Scholarship of \$30 in the fall of 1937. It is awarded annually to a sophomore non-sorority girl having qualities of personality, leadership, and high scholastic standing.

*The Elizabeth Martin Gift.* The American Association of University women has a loan fund of \$600, of which \$100 is called the Elizabeth Martin Gift to the A. A. U. W. Loan Fund. Money from this fund may be borrowed without interest the first year and after that at three per cent. Upperclassmen and graduate students have preference. Application should be made to Chairman of Loan Committee, Miss Charlotte Zimmerschied. Information concerning a loan may be obtained at any time at the Office of the Dean of Women.

*The Janice Neckers Memorial Scholarship.* The Alpha Nu chapter of the Sigma Sigma Sigma sorority established the Janice Neckers Memorial Scholarship of \$30 in the spring of 1947. It is awarded annually to a third-term, non-sorority girl who ranks in scholarship among the first ten of her class. The selection is to be based on character, personality, morals, and need. The sorority will make the final choice from among three girls recommended by the Scholarship Committee of the University.

*The June Vick Memorial Fund.* Beta Xi chapter of Beta Sigma Phi Sorority founded the June Vick Memorial Fund to be operated for the benefit of girl students who desire to attend the University but who are unable to do so without financial assistance. The funds are used as loans for tuition and are administered on a strictly business basis. The repayment of the loan is safeguarded by personal security. Applicants for this loan should see the Dean of Women.

*William and Mary Gersbacher Student Loan Fund.* A memorial loan fund of \$500 has been established in honor of William and Mary Gersbacher. Loans may be obtained by the students in the same manner as are loans from the University Loan Fund.

*Parent-Teachers Scholarship Fund.* The Illinois Congress of Parents and Teachers has provided a fund of \$200 to be known as the Congress Scholarship Fund and to be awarded to a sophomore, junior, or senior on the basis of scholastic standing, character, and financial need. A condition of the award is that the recipient must come from a high school which maintains an active Parent-Teacher Association recognized by the Congress. Application for this scholarship should be made to the Dean of Women or the Dean of Men.

*Student Health Loan Fund.* Through the generosity of a local physician, a loan fund has been established from which an emergency loan may be secured for the payment of emergency medical or surgical bills. Applicants should apply personally to the Student Health Service.

# REGULATIONS AND STANDARDS

## Admission to the University

Students are admitted four times a year. An application for admission should be filed a month in advance of registration; a transcript of record should be mailed directly by the preceding high school or college, to the Registrar at Southern.

Admission is always to a particular college, and usually to a particular major field. The applicant should study the later pages of this catalog, where the offerings of the three undergraduate colleges and the Graduate School are described, and should choose one, even if the choice is only tentative. If he can do so, particularly in the College of Vocations and Professions, he should indicate the major department. If his grades are satisfactory, he will later have the opportunity to change college or major subject. If such change is made late in the course, he will need to make up the elementary requirements of the newly chosen curriculum; this may delay his graduation. Even without such change, however, if the student enters the University without the necessary prerequisites for his chosen curriculum, he may meet with delay while making them up.

See the annual Illinois School Directory for the lists of accredited or recognized high schools whose graduates may be admitted to Southern. Similar accreditation in other states will be honored. See below for the admission of persons over 21 years of age who are not graduates of high school.

The General Educational Development Tests furnish an opportunity to gain admission to full or limited work in the University, to veterans or to civilians who are over 21 years of age and who have not completed high school. These are regularly offered the first Friday and Saturday of each month at the Office of the Dean of Men.

All new students at Southern Illinois University must take the regular *University Examinations*. These will be given during Freshman Week and also once each quarter during the school year. Students will not be considered as having completed their registration until these tests have been completed. Information concerning the testing program may be obtained from the Dean of Men, Southern Illinois University.

*Admission of Transfer Students to Advanced Standing.* Each applicant for admission to Southern is required to present a full record of his academic experience. This includes transcript and evidence of graduation from high school, and transcript and evidence of good standing from every college or university attended. All such transcripts should be mailed directly from the institution to the Registrar at Southern.

If the applicant's scholarship shows an average below "C", he will be denied admission. Appeal for exception should be addressed to the Registrar, and should be accompanied by evidence that the applicant may be re-admitted to the college from which he is transferring, and by a full statement of the circumstances in which the poor record was made. The application should be made early, to permit any necessary correspondence with authorities at the former college.

Any student, though already matriculated at Southern, who undertakes work in another institution, whether in the regular session, summer session, or extension, and who plans to continue study at Southern, is required to file a record of such work with the Registrar at Southern. He must keep his academic record complete. These transcripts become a part of his permanent record and may not be returned to the student.

*Readmissions.* Students who were in attendance and in good standing the preceding term need make no special application for readmission before

each registration. However, a former student, who has not been in attendance the preceding term, but who is in good standing, should write the Registrar for an application for readmission at least two weeks in advance of registration.

A former student who seeks readmission, but who is not in good standing at Southern, must clear his status before the Registrar may prepare his registration card. It is to the interest of the candidate to present his application very early, so that all inquiries may be answered, and so that the candidate may find time to complete any requirements that may be imposed upon him.

If he was dismissed for unsatisfactory scholarship, his application for readmission should be addressed to the Dean of Men or the Dean of Women, who, if necessary, will refer it to a committee for review.

## University Credit for Military Experience

Southern Illinois University is following the policies recommended by the American Council on Education relative to credit for military experience and for experience in civilian activities related to the war, as set forth in the "Guide to the Evaluation of Educational Experiences in the Armed Forces." No credit, however, is allowed for College Level G.E.D. Tests.

Credit not to exceed fifteen quarter hours may be granted to an individual for the basic training course ordinarily consisting of thirteen weeks in the Armed Forces. This credit is to be assigned to physical education, hygiene, military training, or electives. If a student already has credit in these subjects, the amount will be somewhat less.

Upon completion of an extension course given by a recognized college or university, credit will be allowed in the usual manner.

Competence in technical or vocational fields may be demonstrated by examinations, provided the fields correspond to the vocational and technical subjects for which credit is regularly granted on the campus. An individual may take examinations also for credit in a subject field such as mathematics, physics, mechanics, or a foreign language, and secure appropriate credit.

Credit for military experience may be obtained only by regularly enrolled students or those who have been in attendance before entering the armed services.

## Examinations for Credit

Special credit examinations are sometimes given on request in various academic fields in which students through experience have attained competence but have no academic credit. Students requesting these examinations must secure the approval of the Chairman of the Department concerned, the Dean of the College, and the Committee on Special Credit Examinations. The examinations are prepared by the Departments and supervised by the Office of the Dean of Men. The fee is a dollar for each quarter hour. In no case may a student attend class without registering and later secure permission to take an examination for credit.

## Professional Aptitude Tests

Southern has been designated as an official center for the administration of the Professional Aptitude Tests. These are the pre-admission tests of the Association of Medical Colleges and are required of all students planning to enter the medical profession. Other tests in the series are required for certain schools of Engineering. They are given only once each year, dates to be announced. The Graduate Record Examination and the Miller Analogies Test, which are used by many graduate schools as a basis for accepting students, are also given at Southern. For information, consult Dr. Marshall S. Hiskey, Dean of Men.

Fees

Schedule of fees for a term of three months:

Tuition .....	\$15.00	
Student Activity Fee.....	7.50	plus Federal admissions taxes
Book Rental Fee.....	2.50	
		<hr/>
Total .....	\$25.00	plus Federal admissions taxes

Juniors and seniors in the College of Liberal Arts and Sciences and the College of Vocations and Professions pay a tuition of \$20.00 instead of \$15.00. A student who takes his degree in one of these colleges must have registered there the last two years or pay back tuition (except when he is a transfer within this period from another school).

Graduate student fees include the tuition fee of \$15.00, the student activity fee of \$7.50 plus Federal admissions taxes, and a matriculation fee of \$5.00 for new students.

Students holding valid state scholarships and military scholarships are exempt from the above fees.

The general activity charge includes the fee for limited hospitalization, entertainment, athletics, *The Obelisk*, *The Egyptian*, and such other activities as may be provided.

A fee of \$2.00 per quarter hour is charged for extension students, but none of the activity benefits are included. There is a 75c book rental fee if books or University supplies are used in the course. A part-time student taking up to eight quarter hours may choose to pay either \$2.00 per quarter hour or half fees for resident students which in most cases amount to

Tuition .....	\$ 7.50	
Student Activity Fee.....	7.50	plus Federal admissions taxes
Book Rental Fee.....	1.25	
		<hr/>
Total .....	\$16.25	plus Federal admissions taxes

Additional special fees include the following:

Out-of-state fees.....	\$10.00
Late registration fee—\$2.00 first day, \$1.00 increase each day to a maximum of.....	5.00
Fee for credit by examination (per quarter hour).....	1.00
Chemistry laboratory breakage deposit.....	1.00
Botany 101 laboratory breakage deposit.....	2.00
Private music courses, 1 lesson a week.....	12.00
Completion of incomplete course.....	1.00
Graduation .....	10.00

Fees for departmental field trips are listed with the courses concerned. Other charges a student may incur are for library fines, breakage, failure to report for physical examination, etc. The first transcript of the University record is furnished free, provided the student has fulfilled all his financial obligations to the University. There is a charge of \$1.00 for each additional transcript.

Students withdrawing from the University within ten days after the beginning of the term may secure a full refund of fees. In order to receive this refund, a student must make application to the Bursar's Office within ten days following the last day of the regular university registration period. No refunds are made after that time.

## Schedule of Class Periods

Each class period is fifty minutes in length, beginning on the hour. The first classes are at eight o'clock. Ten minutes are allowed between periods.

No classes are scheduled to meet Thursday afternoon at three o'clock, which is reserved for meetings of the faculty, the Council Advisory to the President, committees, and other faculty and student groups.

## Grading System

Grades are expressed in letters as follows:

A, Excellent .....	5 grade points
B, Good .....	4 grade points
C, Fair .....	3 grade points
D, Poor, but passing.....	2 grade points
E, Failure, completed all work including final examination but failed.....	1 grade point
W, Course not completed. Includes complete records of all kinds. This is to be followed by a letter indicating the student's grade at the time of withdrawal. The number of weeks attended is indicated by number.....	1 to 5 grade points

Any change of grade, such as completing a W, must be made within a year after the close of the term in which the course was taken. A fee of one dollar is charged for the completion of a course marked W, unless the student presents a certificate from the University physician. A complete record of all changes in grades appears on the official transcript. Students who for some reason must miss a final examination may not take the examination before the one regularly scheduled for the class. In this case, a W is recorded by the instructor, and the final examination may be taken at a later date, within one year.

## Scholarship

The normal load for a student is sixteen quarter hours, with a maximum of eighteen. A student with a 4.25 average the preceding term may take up to twenty hours. In no case may a student carry, or be credited with, more than twenty-one hours for any term. A student on probation may not take more than fourteen hours.

Before a student may be graduated, he must have a 3.0 (C) average. Any student whose grade point average falls below 3.0 in any term is automatically placed on probation, except a first term freshman who is placed on probation if the average falls below 2.75. A probationary student must attain a 3.0 average the succeeding term in order to continue his eligibility for registration. He will remain on probation until he raises his over-all average to at least 3.0. If he fails to maintain a 3.0 average in any term while his over-all average is below 3.0, or while he is still on probation, he will be dropped for poor scholarship. A student must have a 3.0 average before he may be admitted to the junior year.

Any student who feels he has justifiable reasons for not having fulfilled the general scholarship requirement may present his case to the Dean of Men, the Dean of Women, or the Academic Dean, who in turn may refer his case to the Scholarship Committee for consideration.

For admission of transfer students and re-admission of students with unsatisfactory scholarship averages, see pages 31 and 32.

Unusual cases are referred to the proper personnel dean for testing and advisement, and to the Registration Committee.

## Honors

In recognition of high scholarship, an Honors Day Convocation is held each spring. Candidates for the Bachelor's degree who have maintained a grade-point average of 4.25 or more for all of their work through the winter term of their senior year receive honor pins. In the case of a transfer student, he must have entered Southern Illinois University by the beginning of the junior year and have maintained the 4.25 average.

For information concerning Honors courses open to high-ranking students, see page 38.

Graduating seniors are recognized at Commencement on the graduation program, and their diplomas designate honors granted on the following basis:

Highest Honors .....	Point average of 4.90 or higher
High Honors .....	Point average of 4.75-4.89
Honors .....	Point average of 4.50-4.74

## DEGREES

Southern Illinois University offers the Master of Science in Education, the Master of Arts, and the Master of Science degrees. In addition to these are four undergraduate degrees.

The College of Education grants the degree of Bachelor of Science in Education.

The College of Liberal Arts and Sciences grants the degree of Bachelor of Arts. A student may have the Bachelor of Science degree instead, on application to and approval by the Dean of the College and the Graduation Committee.

The College of Vocations and Professions grants the degree of Bachelor of Science and the degree of Bachelor of Music.

A student requesting a second bachelor's degree must complete forty-five hours in addition to the hours required for his first degree and must fulfill the requirements for the second degree. At least thirty hours must be in senior college courses.

Every candidate for a degree should file written application with the Registrar not less than two months before the date on which the degree is to be granted. At the time of application the student should order his cap and gown through the University Book Store and register with the Director of the Placement Service. A student must have a 3.0 average before his application for a degree may be accepted.

Students must attend Commencement exercises to receive their diplomas, unless they are granted permission to be graduated *in absentia*.

### Requirements for the Bachelor's Degree in All Colleges

Each candidate for the degree must complete 192 quarter hours of credit in approved courses. *At least 64 must be in senior college courses, of which 48 must be earned in residence.* Each student must have a "C" average, and grades not lower than "C" in subjects aggregating at least three-fourths of the work. A "C" average is required in the major subject.

\*The following list of requirements should be met by degree candidates of all colleges within the first two years of attendance:

Social Studies—20 quarter hours (work in 4 departments required)

Economics, 5 hours

Geography, 5 hours

Government, 5 hours

History, 5 hours

Sociology, 5 hours

Humanities—18 quarter hours

English 101, 102, 103—9 hours

English 205, 206, 209, 211, 212—6 hours

Art 120 or Music 100—3 hours

Note: The student is also advised to complete the foreign language requirement for the bachelor's degree within the first two years.

Biological Sciences—9 quarter hours

Health Education 202—4 hours

Botany 101, 202, or Zoology 101, 105—5 hours

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\* For the Bachelor of Music degree, for which the requirements are somewhat different, see page 153.

Mathematics and Physical Sciences—12 quarter hours

Chemistry, Mathematics, Physics (the 12 hours to be selected from two departments)

Practical Arts and Crafts—3 quarter hours

Agriculture, Business, Home Economics, Industrial Education (not required if the student has had any of this work in high school)

Physical Education—6 quarter hours

Students may satisfy any of the above requirements by passing attainment tests. In some cases, more advanced work may be substituted for the required courses listed. Students who transfer in the junior or senior years may substitute senior college courses in most departments for the freshman-sophomore courses listed above.

Note: Students will, before the end of the sophomore year, be required to remove deficiencies as shown on the freshman entrance tests. Such deficiencies may be removed by passing a university credit course, by passing a remedial course, or by passing a test given by the testing bureau.

### Course Numbers

The course numbering system is as follows:

- 100-199 .....for freshmen
- 200-299 .....for sophomores
- 300-399 .....for juniors and seniors
- 400-499 .....for seniors and graduates
- 500 and above.....for graduates only

Ordinarily, students are not permitted to take courses above their classification; that is, a freshman should register for freshman courses, and only in rare instances for sophomore courses.

### Unit of Credit

One quarter hour represents the work done by a student in a course pursued for a term of twelve weeks, one hour a week, and, in the case of the laboratory courses, the usual additional time. It is equivalent to two-thirds of a semester hour.

### Honors Courses

A student with a 4.5 average at the end of the sophomore year may be granted permission to do a limited amount of specialized work in his chief field of interest. This may fall within a department or may cut across two or more departmental fields.

A qualified student who wishes to take honors courses should consult with the faculty member concerned and ask for the appointment of a Special Honors Committee to supervise his honors work.

The amount of credit which a student may receive for honors work and the type of comprehensive examination to be given will be determined by the Scholarship, Standards, and Honors Committee.

## THE GRADUATE SCHOOL

Graduates of fully-accredited colleges and universities may pursue a course of study leading to the degree Master of Arts, Master of Science, or Master of Science in Education. Those wishing to qualify to teach may obtain either a Master of Science in Education, with a major in an academic field, or a Master of Arts (or Science) degree, with a minor in Education. The principal differences pertain to the requirement of a thesis for the M. A. or M. S., plus a foreign language requirement. In addition to a teaching degree in Education, graduate majors are available in Educational Administration and Supervision and in Elementary Education. By taking full-time summer work and part-time graduate work on evenings and Saturdays during the school year, it is possible for students to obtain the Master's degree in two years.

The degree, Master of Science in Education, is available in the following fields:

Biological Science	Mathematics
Education	Physical Sciences
English	Social Sciences
Foreign Language	Industrial Education (minor)

The degrees, Master of Arts and Master of Science, are available in the following fields:

English	History
Foreign Language	Mathematics
Government	Biological Sciences

### Graduate Assistantships

A limited number of graduate assistantships (part-time faculty assistantships) are available for qualified students. These involve some teaching, research, or administrative duties, and are assigned chiefly on the basis of high scholarship. They carry monthly stipends, varying from \$55 to \$110 per month.

For information and application blanks, address the Graduate Office, Southern Illinois University.

### Admission to Graduate Work

An applicant for admission to the Graduate School is expected to present a baccalaureate degree from a fully-accredited college or university, although graduates of institutions of limited accreditation may be considered on their merits.

Admission to the graduate school is not equivalent to admission to candidacy for the Master's degree.

### Advancement to Candidacy

In order to be advanced to candidacy for the Master's degree, a graduate student must demonstrate his competence to do a satisfactory quality of graduate work.

This competence may be demonstrated at the beginning of the student's graduate work by his making a satisfactory score on a graduate aptitude test, which is required of all beginning students.

Otherwise, the student must demonstrate that he is of acceptable graduate caliber by making a "B" average on the first half of his required graduate credits.

## **Transfer of Credit**

A maximum of sixteen quarter hours of acceptable graduate credit earned in another fully-accredited institution may be transferred to apply toward the Master's degree.

## **Tuition and Fees**

Tuition and fees in the Graduate School are the same as for undergraduates, except that, instead of paying a book rental, graduate students are required to purchase their own textbooks.

## **Credit and Grade Requirements**

To qualify for the Master's degree, graduate students must have forty-eight quarter hours, including thesis, of credit with "C" or above, and a "B" average of all graduate courses taken. At least half of the credits counting toward the degree must be earned in courses for graduates only ("500" courses); the remaining may be taken in courses for graduates and advanced undergraduates ("400" courses).

## **Language Requirement**

The amount of foreign language required for the Master's degree is left to the student's major department or field, except that in no case is it to be less than that required in the corresponding undergraduate area at Southern Illinois University.

## **Requirement of Thesis**

As a general rule, a thesis is required of all candidates for the Master's degree.

## **Admission Blanks**

Graduate students wishing further information or admission blanks, should write to the Registrar or to the Graduate Office, Southern Illinois University, Carbondale.

# **DIVISION OF EXTENSION AND ADULT EDUCATION**

Southern Illinois University maintains the Division of Extension and Adult Education as a part of its services to the in-service teachers and adults in general in that part of Illinois served by the University. Since its beginning twenty years ago, the Division has developed with the increasing demands for extension work throughout Southern Illinois.

A maximum of one-fourth of the total number of credits required for the bachelor's degree may be earned through extension work, and up to eight quarter hours for the master's degree.

Many courses that are given in residence are offered as extension work, and, when satisfactorily completed, are given the same credit as resident courses. All instructors of these extension courses are members of the regular University faculty, and the work offered meets all of the requirements of the American Association of Colleges for Teacher Education and the North Central Association of Colleges and Secondary Schools. These courses are not regularly scheduled for fewer than twenty persons. The tuition charge is \$2.00 per quarter hour, or \$8.00 for a four-hour course. No student may be admitted after the second meeting of the class, and a \$2.00 late registration fee is charged after the first meeting.

In addition to the program of regular extension classes, most of which in the past have been for in-service teachers, the Division of Extension and Adult Education is becoming more and more active in serving other adult

groups and institutions in Southern Illinois. The Audio-Visual Aids Service, which is described in the following section, is being greatly expanded. Classes in public speaking are available to business and professional men and women. Classes of special interest to particular groups, such as are desired by young men in the insurance or banking fields, may be scheduled wherever the demand arises. A radio series may be secured by certain groups who are interested in a particular subject, such as church organizations, women's clubs, or similar groups.

The Division of Extension and Adult Education is ready to attempt to furnish speakers or programs for civic groups. Music groups, individual students in the field of speech or music, and campus instructors who are specialists in their fields can provide unusually instructive and entertaining programs.

Specific inquiries concerning any service which the Southern Illinois University may provide should be addressed to Raymond H. Dey, Director of the Division of Extension and Adult Education.

## AUDIO-VISUAL AIDS SERVICE

The use of audio-visual aids is indispensable as a tool of teaching in modern education.

For more than a decade, various forms of audio-visual aids have been used in classes at Southern. At the present time, the Audio-Visual Aids Service, a branch of the University Extension Division, is in process of expansion, stimulated by the felt need of such a program in Southern Illinois. Southern's new film library, after a year in operation, is serving the needs of well over 100 schools and adult organizations of the southern half of the state. Films are constantly being added to the library to meet ever increasing needs.

The Audio-Visual Aids Service has two primary functions—"on campus" and "area" services. Campus users, when they need them, are provided with the various types of projection service. Films from Southern's library and many from other sources are provided for campus and extension classes and are shown to some 5,000 people a month.

In addition to supplying the merely technical needs of an audio-visual program, the University offers a course in audio-visual methods for teachers in training, and also for experienced teachers who attend the summer session at Southern.

As to off-campus services, the department is desirous of serving as an audio-visual center for southern Illinois, in fulfilling its function as part of the University Extension Division.

The Audio-Visual Aids Service will provide aid to schools and other agencies desirous of developing an audio-visual program. This program includes both the consultation service and the rental of audio-visual materials, particularly films. Where the need is indicated and time permits, extension courses will be offered at strategic centers in the area served by the University.

Other plans include a course for graduate students, a series of one-day conferences for teachers and educators both in the area and on the campus, and, as soon as possible, an audio-visual institute designed to serve the interests and needs of both teachers and administrators.

Exhibits of museum materials are available to Southern Illinois schools, as explained on page 24. These are booked by the Audio-Visual Aid Service.

# THE THREE UNDERGRADUATE COLLEGES OF THE UNIVERSITY

## COLLEGE OF EDUCATION

The College of Education is for men and women who are already members of the teaching profession, and for young people who intend to enter the field of teaching or of educational administration, or some related field. Its aim is to provide a fully-rounded program of pre-service and in-service instruction and study. Its undergraduate and graduate curricula are intended to prepare students for teaching in the rural and elementary fields, high school, and college, and for holding positions as school administrators, supervisors, and supervising teachers. Opportunity for in-service growth is provided on a graduate or an undergraduate basis and also on a credit or a non-credit basis.

The program of academic and professional study, including student-teaching, is built upon a fundamental belief in the highest standards for preparing teachers who will have adequate knowledge of their respective special fields, who will understand professional theory and how to apply it, and who will have attained a degree of skill such as to enable them to enter and serve successfully in the profession.

The course of study in the College of Education leads to the degree Bachelor of Science in Education.

## Requirements

*General Requirements.* All students in the College of Education must complete the general requirements listed on page 36 and 37, including American History and Government. (In this University this means History 201 or 202 and Government 101 or 300.) No general foreign language requirement applies to the College of Education. In certain departments, however, foreign language is required of majors in secondary education.

*Requirements for Secondary Teaching.* Students preparing to teach in the secondary school should offer for graduation a major of either 36 or 48 quarter hours in some academic department. Field majors are also acceptable in social studies and biological science. With a 36-hour major, students are expected to complete two minors of at least 24 hours each in other academic departments. Only one minor is required in the case of a 48-hour major or a field major. In the 48-hour departmental major and the 72-hour field major, "field minors" are not recognized, and the major and minor must be in separate fields of study.

"Field minors" are accepted, in the biological sciences, the social studies, and Latin-American relations. The following is an example of a field major:

### *Social Studies Field Major in the College of Education*

The major consists of 72 quarter hours in the social studies, to be divided as follows: 12 hours in European History; 12 in American History; and 12 hours each in Economics, Geography, Government, and Sociology.

Required courses, 45 quarter hours:

Economics 205 and 355  
Geography 100 and 324  
Government 101 and 300  
History 201 or 202 and 211 or 212  
Sociology 101 and 202

Electives, to a total of 27 hours, to be chosen from

Economics 206, 310, 317, 370

Geography 210, 314, 315, 319, 345

Government, any courses

History, any courses, provided some are in American and some in European

Sociology 310, 355

The major is to be supplemented with a minor in a subject outside the field of the social studies.

In addition to taking the major and minors, students preparing for high school teaching should take all degree requirements for secondary education.

*Elementary Education Requirements.* Students preparing to teach in elementary schools are not expected to major in an academic department. They major in elementary education, with 32 quarter hours in education other than student teaching. In addition to the major, students complete field minors of 24 quarter hours each in social studies, language arts, and natural science.

## Degree Requirements in College of Education for the Degree of Bachelor of Science in Education

### *Secondary Education*

State Minimum Requirements (Statutes or Examining Board Regulations)	<i>Qr. Hrs.</i>	Southern Illinois University Requirements Based upon, or in Addition to, State Minimum Requirements*
Oral and Written Expression	12	Eng. 101, 102, 103, plus 300, 390, or Speech; plus 6 hrs. selected from Eng. 205, 209, 211, 212
Natural Science	9	5 hrs. selected from Bot. 101, 202, or Zoo. 101, 105; plus 12 hrs. selected from two of these three fields: Physics, Math., Chem.
Social Science	9	10 hrs. selected from two of these three fields: Geog., Econ., Sociology
American History		Hist. 201 or 202
American Government		Govt. 101, 231, or 300
Humanities	9	Art 120 or Mus. 100; plus Eng. listed above
Health and Physical Education	4.5	Health Ed. 202; plus 6 hrs. of Phys. Ed.
Additional work in above fields	9	9 hours selected from academic fields In addition to foregoing academic requirements, student must take 3 hrs. in Ag., Business, Home Ec. or Ind. Ed., unless these were taken in high school
Adolescent Growth or Educ. Psy.	3	Ed. 205
Principles or Philos. of Ed.	3	Ed. 310
Materials and Methods (Secondary)	3	Ed. 315
American Public Education	3	Ed. 331
Practice Teaching (Secondary)	7.5	12 hrs. Student Teaching (Secondary)
Electives in Professional Ed. to bring total in Ed. to	24	Ed. 305, 306, or 345
Total Hours for Certification	180	Total hours for degree: 192
Student must have one major and one minor in separate fields, or must have three minors.		Major of 48 hrs. and minor of 24 hrs.; or a major of 36 hrs. and two minors of 24 hrs., in different fields.* Reading knowledge of a foreign language is required unless the student's major is in Ag., Art, Business, Ind. Ed., Mus., Men's P. E.; Speech, or Social Studies (field major).

\* Additional Regulations:

The student must have 64 hours of senior-college credit (300 and 400 courses), of which at least 48 must have been earned at Southern.

The student is held responsible for all requirements pertaining to prerequisites to Student Teaching and should study the section in this *Bulletin* which lists such requirements.

The student, to graduate, must have a "C" average in his major field and a "C" average in his total college work, with "C" or better in at least three-fourths of his work.

A field major may require more than 48 hrs., and if a "field minor" is credited, two minors must be carried.

## Degree Requirements in College of Education for the Degree of Bachelor of Science in Education

### *Elementary Education*

State Minimum Requirements (Statutes or Examining Board Regulations)	<i>Qr. Hrs.</i>	SIU Requirements Based upon, or in Addition to, State Minimum Requirements*
General Psychology	4.5	Ed. 205
Ed. Psy., Child Psy., Human Growth and Develop.	3	Ed. 305, 306, or 340
Methods and Curriculum (Elem.)	3	Ed. 314
Philos. of Education	3	Ed. 355
Student Teaching (Elem.)	7.5	Student Teaching, 12 hrs. (8 must be Elementary)
American Public Educ.	3	Ed. 331 12 hrs. elective in Education
Language Arts	24	Eng. 101, 102, 103; plus 6 hrs. selected from Eng. 205, 209, 211, 212; plus 9 hrs. elective in Language Arts.
Natural Science	24	5 hrs. selected from Bot. 101, 202, or Zoo. 101, 105; plus 4 hrs. Chem. or Physics; plus 15 hrs. elective in Natural Sciences
Mathematics	7.5	8 hrs. Math. (4 hrs. may be in meth- ods)
Social Science (must include Am. Hist. and Am. Govt.)	24	Hist. 201 or 202; Govt. 101, 231, or 300; plus 5 hrs. in Geog.; plus 5 hrs. in Econ. or Sociol.
Fine and Applied Arts	18	Art 120 or Mus. 100; plus 15 hrs. elective in this field
Health and Physical Ed. (must include 3 hrs. materials and methods)	7.5	Health Ed. 202; plus 6 hrs. in phys- ical education; plus 3 hrs. in mate- rials and methods of teaching Physical Education
Total number of hours required for certification	180	Total number of hours for degree: 192, with a "field minor" of 24 hrs. in each of these fields: Social Studies, Natural Science, Language Arts.

#### \* Additional Regulations:

The student must have 64 hours of senior-college credit (300 and 400 courses), of which at least 48 must have been earned at SIU.

The student is held responsible for all requirements pertaining to prerequisites to Student Teaching and should study the section in this *Bulletin* which lists such requirements.

The student, to graduate, must have a "C" average in his major field (Elementary Education) and a "C" average in his total college work, with "C" or better in at least three-fourths of his work.

Students wishing to secure certificates in Kindergarten-Primary Education are required to carry additional subjects and should consult their advisers concerning these requirements.

The student must have a "field minor" of at least 24 quarter hours in each of these three fields: Language Arts, Natural Science, Social Science.

## Student Teaching and Observation

Supervised Student Teaching is conducted at Southern in the Campus Schools and in co-operating public schools, both in and near Carbondale. The College of Education requires twelve hours of Student Teaching for the degree Bachelor of Science in Education. Students are expected to enroll for the entire twelve hours during one quarter, approval of the Director of Teacher Training being necessary for any other arrangement. Usually, secondary-school teachers are assigned to teach eight hours in the major fields and four hours in their minor fields (or four hours in Elementary Education). Elementary teachers are assigned to one grade for one quarter.

Preliminary application for Student Teaching during the regular academic year should be made at the beginning of the spring quarter, approximately one year prior to graduation. Detailed application blanks should be filled in, one quarter prior to Student Teaching. Application for Student Teaching during the summer session should be made not later than March 1. Application blanks can be secured from the Director of Teacher Training.

### Student Teaching Prerequisites

1. Application should be made to the Director of Teacher Training one year prior to graduation.
2. Detailed form must be filled in a full quarter prior to teaching.
3. Student must satisfactorily pass a physical examination.
4. Student must be working toward the Bachelor of Science in Education degree. (Exceptions are made only by the Dean of the College of Education.)
5. Student must have 128 quarter hours' credit with a "C" average before beginning work in Student Teaching.
6. Student must have at least 16 quarter hours in the subject which he proposes to teach.
7. Student must have at least 12 quarter hours' credit in Education.
8. Student must have taken Speech 101 (secondary teachers) or Speech 307 (elementary teachers), securing a grade of "C" or better. Special exemptions may be made by the Chairman of the Speech Department.
9. Student must have taken English 300, securing a grade of "C" or better. Special exemptions may be made by the Chairman of the English Department.

Note: No University credit is allowed for past experience in teaching.

### *Campus Laboratory Schools*

The Campus Laboratory Schools offer work from the nursery school through the senior high school, including the kindergarten-nursery school, a six-year elementary school (Allyn), and a six-year high school (University High).

The Campus Laboratory Schools carry out the following important functions:

1. Providing a superior educational opportunity for the boys and girls enrolled.
2. Illustrating to prospective teachers, through demonstration teaching, a skillful application of educational principles.
3. Offering facilities for apprentice teaching.
4. Exemplifying to the public schools of Southern Illinois that which is best in school organization, curriculum, equipment, and methods of instruction.

### *University High School*

The University High School includes grades seven through twelve.

The University High School has a staff of experienced teachers with fine professional preparation. Certain areas of the curriculum are being gradually adjusted and revised in terms of the preparation of adolescents for effective participation in our democratic society. In addition to a fairly large number

of subject-matter offerings, the high school has a well-rounded program of extra-class activities, which include band, chorus, dramatics, athletics (inter-scholastic and intramural), safety patrol, Future Farmers of America, Future Homemakers of America, Girls' Athletic Association, assembly, student council, bi-weekly newspaper, yearbook, and a variety of clubs.

A fee of \$8, plus Federal admission taxes, is charged for each semester. This fee entitles the student to the following: textbooks, use of the college library, subscription to a current affairs weekly newspaper, yearbook, admission to high school and university athletic contests, and university entertainment numbers presented in the evening (other than the Community Concerts.)

The requirements for high school graduation are 16 year-credits, including three of social studies, three of English, one of science, one of mathematics, and one of physical education.

#### *Allyn Elementary School*

Student Teaching from the nursery school through the sixth grade may be taken in the Allyn Elementary School. In each grade there is a well qualified supervising teacher. Student teachers serve a full day and receive twelve quarter hours' credit for a twelve-weeks' term. Student teachers may carry other course work in addition to Student Teaching.

Student teachers are gradually introduced to various activities which include supervising study, planning for individual differences, carrying out testing programs, and planning and directing extra-class activities.

Fees for grades one to six are \$4 each term, or \$12 a year. For the nursery school and kindergarten, the fees are \$10 a term.

#### *Brush Elementary School*

The Brush School is located in the best residential section of the city and is slightly more than a half-mile from the University campus. The school includes grades one to six in twelve rooms, several of which are devoted to Student Teaching, with regular supervising teachers in charge.

Student teachers spend a full day at Brush and receive twelve quarter hours' credit. Student teachers may carry other course work in addition to Student Teaching. They plan and work under the guidance of supervising teachers. Directed observation is carried on each week during the entire term. Weekly teachers' meetings are held throughout the term, which afford an opportunity for discussing the work of the school and for presenting and discussing subjects of general interest.

## Student Teaching in Public High Schools

In addition to the foregoing provisions for Student Teaching, arrangements are made with a number of schools in and near Carbondale whereby student teachers may be assigned to do Student Teaching under the supervision of co-operating teachers approved by the University.

All assignments to Student Teaching are made by the Director of Teacher Training.

## Consultative Service on School District Reorganization

As a part of the field service of the College of Education, selected members of its faculty are carrying on studies of possible school-district reorganization, and in the details of their work are assisting the various county survey committees under the current state legislative projects and county superintendents.

Inquiries regarding the availability of these consultative services should be addressed to the Dean of the College of Education.

## Certification

All certificates to teach in Illinois are issued by the Secretary of the State Examining Board for Teachers Certificates, Office of the Superintendent of Public Instruction, Springfield, Illinois. The following certificates are available:

Limited Elementary School	Limited High School
Limited Kindergarten-Primary	Limited Supervisory
Limited Special	Limited Junior-College
Limited Vocational	

Further information may be secured from the Dean of the College of Education, or the Director of Teacher Training, Southern Illinois University; the County Superintendent of Schools; or the Secretary of the State Examining Board.

After the student has completed two years of university credit, including specified subject requirements, he may make arrangements with the County Superintendent of Schools to take the examination for the Limited Elementary School Certificate.

## Child Guidance Clinic

The Child Guidance Clinic was established in 1936. With special aid and guidance given by the Illinois Institute for Juvenile Research, it has expanded its services to many communities and schools in Southern Illinois. The Clinic works in cooperation with the State Department of Public Welfare, including the Division for Delinquency Prevention, the State Division for Handicapped Children, and the Division of Child Welfare, with the Illinois Children's Home and Aid Society, as well as with administrators and teachers of the public schools, with judges, and with parents. The staff includes psychologists, clinicians, social workers, physicians and nurses, and specialists in diagnostic and remedial reading and mathematics.

The objectives of the Child Guidance Clinic are to aid teacher education; to aid the training school units in the study of individual children; to expand the studies of clinical psychology; to train some of the most capable students for positions as child technicians in public schools; to train students for positions as clinical technicians in state institutions; to examine and diagnose individual clinical cases, and to aid teachers and parents in understanding the therapy that may be used.

Information may be secured from Dr. W. A. Thalman, Director.

## Education

Professors Lawson, Merwin, Phelps, Thalman, Warren (Chairman); Associate Professors Bosley, Dykhous, Randolph; Assistant Professor Fishback.

The College of Education offers a major and a minor in Educational Psychology. The major requires 48 quarter hours, and the minor, 24.

The following courses are suggested: 205, 305, 306, 337, 345, 420, 421, 426, 432, 436, 445, 446, 465.

- 205. Introduction to Educational Psychology.** A fundamental course, giving a description of human behavior and a basis for its study; including a brief statement regarding the development of psychology; describing motivation and mental states, such as emotions, conflicts and frustrations; acquainting the student with the ways in which one comes to know the world around him through perceptual experiences; giving an understanding of attention and how it may be developed; describing the learning process and its relationship to thinking and reasoning; giving a description of native intelligence, and discussing the relationship of the individual to his social world; dealing in the final discussions with the physiological processes involved in brain activity. 4 hours. Offered every term.

- 230. Rural Education.** The functions of the school in rural society; the growth and development of the child in his environment; curriculum evaluation and organization; materials of instruction; organization and management of the school; use of community resources. Prerequisite, Education 205. 4 hours.
- 235. Primary Education.** The child mind, phenomena of growth, and the instinctive interests of childhood. Detailed consideration given to materials and methods. Prerequisite, Education 205. 4 hours.
- 237. Rural Education Seminar.** A course designed to accompany rural student-teaching. Discussions and readings, in the main, growing out of problems encountered in actual student-teaching; work on special problems of mutual interest. Prerequisites, Education 205 and 230. 4 hours.
- 305. Advanced Educational Psychology.** The bodily organs and mechanisms upon which behavior depends; instinctive action and native capacities; the general laws of learning and their applications to teaching; individual differences. Prerequisite, 205. 4 hours. Offered every term.
- 306. Child Psychology and Development.** A course paralleling student teaching, treating physical, mental, social and educational growth of elementary school children, and giving attention to implications of recent child growth data for developmental experiences provided by school and home. Prerequisite, Education 205. 4 hours.
- 307. The Junior High School.** A course concerned primarily with the place of the junior high school in the organizational pattern, with major emphasis upon the areas of organization, administration, and curriculum. Prerequisite, Education 345 (or 305). 4 hours.
- 310. Principles of Secondary Education.** A study of such topics as adolescence, the history and aims of secondary education, high school courses of study, high school equipment, and the problems of organization, management, and discipline peculiar to the high school. Prerequisite, Education 345 (or 305). 4 hours. Offered every term.
- 311. The Work of the Elementary Teacher.** Discussions centered around the professional and community relations of the teacher, an analysis of teaching materials, and present day trends in curriculum procedures. Prerequisite, Education 205. 4 hours.
- 312. Safety Education.** Preparation for teaching safety education in public schools. Traffic safety given major consideration, but other phases of safety education also treated. Prerequisite, Education 205. 4 hours.
- 313. Literature in the Kindergarten-Primary Grades.** A course for students majoring in Kindergarten-Primary Education, emphasizing principles of selection and presentation, rather than content, of literature for young children. Actual practice in selecting and presenting the literature to children in the training school an essential part of the course work. Prerequisite, Education 306 (or 305). 3 hours.
- 314 (215) (210). Elementary School Methods.** A brief study of the fundamental principles of education, and their application in the interpretation of current and proposed educational theory and practice. A detailed study of the processes of teaching and learning involved in elementary education. Education 314 cannot be substituted for Education 315, nor can Education 315 be substituted for 314. The student may have credit for both Education 314 and 315 only upon approval of the Dean of the College. Prerequisite, Education 306 (or 305). 4 hours.

315. **High School Methods.** A detailed study of the processes of learning and teaching involved in high school education. See Education 314 description. Prerequisite, Education 345 or 305. 4 hours. Offered every term.
316. **Kindergarten-Primary Methods and Curriculum.** A course designed to aid the teacher in placing subject matter according to age levels and environment, and in integrating this material with the child's experiences; to plan a unit of experience and to help a school group to develop it. Prerequisite, Education 306 (or 305). 4 hours. (3 hours theory plus 2 hours laboratory).
317. **Audio-Visual Methods in Education.** Selection and utilization of audio-visual methods in the teaching situation, elementary through adult levels. The use of the motion picture, slides, film strips, and recordings particularly stressed. Prerequisite, 306, 345, or 305. 4 hours.
323. **School Law.** Offered jointly with the Department of Government. The constitutional and statutory provisions for education and the basic principles governing court decisions concerning the rights and status of teachers, boards, and school officers, with chief emphasis placed upon Illinois school law. The teacher's contractual status and obligations, problems in school finance, and the legal requirements for certification, bonding, and organization studied with specific relation to conditions and needs in Illinois. Prerequisite, Education 306, 345, or 305. 4 hours.
330. **History of Education.** The chief aim to afford the teacher the sanity of judgment that comes only by seeing present-day education in perspective against its historical background; and to trace the evolution of educational ideals and practice in response to social needs and to the contributions of philosophic and scientific thought. Prerequisite, Education 306, 345, or 305. 4 hours.
331. **American Public Education.** A history of administrative progress and curriculum change and expansion, rather than a history of theories about education. Prerequisite, Education 306, 345, or 305. 4 hours. Offered every term.
333. **Field Work in Elementary Education.** Special problems in the teaching, supervision, or administration of elementary or rural schools. Admission by consent of instructor. 4 hours.
335. **Problems in Rural Education.** Persistent problems of rural teachers in Southern Illinois. Plans of action considered under the following headings: organization and management; curriculum adjustment to meet local conditions; selections and use of materials and equipment; intra-school, home, and community relationships; evaluation of pupil progress; the teacher's own growth and work. Prerequisites, one course in Psychology and one other course in Education. 4 hours.
337. **Reading in the Elementary School.** The principles of reading instruction and the factors that condition reading, together with grade placement of aims and materials; approved techniques of approach, diagnostic and remedial treatment. Problem cases in reading studied. Methods developed by recent research and practice brought to class. Prerequisites, Education 305, 314, or 315, and 306 (or 345 or 305). 4 hours.
338. **Problems of Remedial Reading in the High School.** A course dealing with characteristic weaknesses in reading ability of high school students and suggesting remedial methods. Prerequisite, senior classification. 2 hours.

- 338a. Laboratory Practice in Secondary School Remedial Reading.** A course taught in conjunction with or following course 338, giving actual practice in applying diagnostic and remedial techniques. Prerequisites, 338 and senior classification. 2 hours.
- 338b. Reading Case Studies and Clinical Practice.** The making of individual case diagnoses; administering of direct corrective aids; use of reading tests, interest surveys, the telebinocular, metronoscope, ophthalmograph, audiometer, and other diagnostic and corrective devices. Prerequisite, Education 337 or 338. 2 hours.
- 338c. Diagnostic and Remedial Treatment for Retarded Readers.** A course providing training for elementary or high school teachers in service who must deal with seriously retarded readers; practice in using approved diagnostic approaches, including reading tests and devices used in public school reading clinics; use of telebinocular and other tests of vision, the audiometer, the ophthalmograph and the metronoscope. Emphasis on remedial techniques and reading improvement programs. Prerequisite, Education 337 or 338. 4 hours.
- 339. The School and the Community.** A consideration of the place of the school in the community, the implications of out-of-school agencies, and the educational needs growing out of the environment. Surveys of educational resources in the community and effective use of these resources in developing a school curriculum. Open to juniors and to others by permission of instructor. 4 hours.
- 345. Adolescent Development.** Development of the individual through adolescence, and correlation of adolescence with childhood. Adolescence in its physical, mental, emotional, social, moral, and religious aspects, its motivations, drives, and interests. Personality development, including behavior patterns; mental variations such as amentia, disintegrations, psychopathy, dementia praecox, and some psychoses; hygiene of adolescence; juvenile delinquency; guidance. Prerequisite, Education 205. 4 hours. Offered every term.
- 351. The School Library and the School Program.** The integrated use of library materials in the school program; reading interests and habits of children and adolescents; principles of book-selection; reading guidance. Prerequisite, Education 205. 4 hours.
- 352, 353. School Library, Organization and Management.** Two courses giving techniques in organizing the small school library, and in making it function. Equipment, records, library activities; acquisition, classification, and simplified cataloging of books. Prerequisite, 351. These courses to be taken in sequence: 352, Winter; 353, Spring. 4 hours each.
- 355. Philosophy of Education.** A consideration of the philosophical principles of education and of the educational theories and agencies involved in the work of the schools. Prerequisite, 305, or 340, or 345. 4 hours.
- 361, 362. Rural and Elementary Curriculum.** Field laboratory courses, designed especially for in-service rural teachers, classes meeting as ordinary extension classes. Instructor visiting the schools represented and making their curriculum problems the bases of discussions in the classes. Teachers expected to improve and enrich the curriculum of their schools as a result of these discussions. College subject matter specialists to assist the classes in curriculum revision. Extensive readings. Education 361 a prerequisite to 362. 4 hours.
- 364 (450). Foundations of Elementary Education.** An analysis of societal conditions and trends and the responsibility of the educational system; a survey of child characteristics and needs, and their influence on the

program of the school; the desirable content of the school curriculum in the light of the above items. Prerequisite, Education 305 or 340. 4 hours.

367. **Structure and Operation of the American Public School System.** A functional overview of American education today; future possibilities as indicated by present trends and recognized needs. The scope of American education, the function of the school in the modern democratic state, conditions requisite to the development of adequate education in the typical midwestern community, and typical practices and characteristics of the modern school. Prerequisite, Education 305, 340, or 345. 4 hours.
371. **Foundations of Education.** An overview of the various areas of education. Problems in educational philosophy, educational sociology, psychology, administration and curriculum development discussed, with emphasis on recent trends. Diversified readings in each area. Prerequisites, two courses in Education, and junior standing. 4 hours.
380. **Kindergarten Education.** The mechanisms and functional changes in the development of the pre-school child. The two hours in the kindergarten used in the study of a few children and in the checking of these observations with the literature in the field. Designed to accompany student teaching. Prerequisite, consent of instructor. 4 hours.
381. **Educational Sociology.** The methods, principles, and data of sociology as applied to the study and practice of education, centering about the socializing process, and those social institutions that are closely related to education in a democracy. Prerequisite, consent of instructor. 4 hours.
390. **Workshop in Rural Education.** Group and individual problems related to meeting child and community needs; includes class discussion of general problems, individual and group conferences; observation in a rural demonstration school; excursions, and participation in other activities with the guidance of specialists in these fields. Special consideration given to ways of utilizing environmental resources in providing for child growth and development. Arrangements for enrollment to be made by May 1 with the Director of Rural Education. 6 or 8 hours, Summer.
401. **Problems in Public School Reading.** Requirements: attendance at all sessions of a reading conference; preparation of a paper showing practical applications of theory to the student's own teaching situation. 2 hours, Summer.
402. **Planning the Small School Plant.** A consideration of latest authoritative recommendations concerning school plant design, with stress on planning the small school building to meet educational and social needs in rural communities. A review of sources of standards and evaluative criteria now available, together with trends in school plant design in progressive communities. Each member of the class to incorporate the results of his research into floor plans and specifications for a small school building. Prerequisite, consent of instructor. 2 hours.
420. **Educational Statistics.** Open to graduate students and seniors. A course offering critical analysis of the structure and content of objective tests; experiences in the computing of various measures of central tendency and variability; study of norms and standards; interpretation of statistical graphs and tables used in education; study of correlations of reliability and validity, and of applications of statistics in education and educational psychology. Prerequisites, Education 305, 340, or 345, and 421. Thalman. 4 hours.

- 421 (320) (321). Educational Tests and Measurements.** Tests of intelligence, achievement, and personality; their administering, scoring, and interpretation; diagnosis, by psychological tests and techniques, of children's school difficulties; methods and actual preparation of objective tests in various fields, both elementary and high school; development of a critical attitude toward all analysis and test procedures. Prerequisite, consent of instructor. Thalman. 4 hours.
- 424. School Administration.** A course designed primarily for those who look forward to positions as supervisors, principals, or superintendents. Prerequisite, 305, 340, or 345. Thalman. 4 hours.
- 425. Diagnosis and Treatment of School Behavior Problems.** Etiological factors, differential diagnosis and methods of treatment of behavior problem children. The maladjusted child in relation to problems of individual differences, and the education of exceptional children. Methods of diagnosis employed in various clinics and schools; intra-community and extra-community facilities available in treatment programs. Emphasis upon the attacking of behavior problems through liaison of school, home, and community. Includes in-service field work in the students' schools and communities. Prerequisite, consent of instructor. Thalman. 4 hours.
- 426. Symposium on Procedures in Individual Guidance.** Weekly seminars on individual guidance techniques: administration, scoring and interpretation of intelligence, achievement and personality tests; procedures for studying behavior and maladjustment problems; home visitations; practice in special techniques in corrective reading and mathematics; practical, objective experiences in physical and mental health problems. Each student to follow through with one child as a "subject" in the learning of these techniques. Prerequisites, Education 206; 306, or 340 or 345; 421; 337 or 338 or other special courses in diagnostic reading; Sociology 101; Health Education 202. Thalman. 4 hours.
- 432. Public Opinion, Propaganda, and Education.** A course analyzing, classifying, and giving means of combating propaganda. Designed to show how public opinion is formed, by use of current materials from the different channels of communication. The differences between propaganda and indoctrination. Prerequisite, consent of instructor. 4 hours.
- 436 (336). Techniques in Individual Educational Measurement.** Students in this course to receive theory and practice in administering individual intelligence tests, such as the Stanford Binet and Cornell-Coxe Performance Ability Scale. For teachers contemplating qualifying as clinicians, remedial teachers, or adjustment teachers in their school systems. Each student to administer the tests to pupils of varying ages and to interpret the results. Prerequisites, Education 205; 306 or 340 or 345; 421. 4 hours.
- 437 (537). Problems in Reading.** Newer practices and trends in the teaching of reading; recent materials of instruction in reading, particularly the remedial materials; modern techniques and materials for prevention of reading difficulties; diagnosis and remediation of reading difficulties. Graduate students to do extra work. Prerequisite, consent of instructor. 4 hours.
- 445 (350). Mental Hygiene.** Mental habits, attitudes, and ideals which prevent or promote healthy-mindedness. Practical procedures for administrators and teachers in dealing with the emotional and personality problems of school children. Prerequisite, Education 305, 340, or 345. 4 hours.

446. **Practicum in Educational Applications of Clinical Psychology.** A course giving clinical experiences at the State Hospital at Anna, requiring participation in numerous staffings, in clinics, and conferences, covering psychiatric, neurological, and pathological findings, and in staff medical meetings; giving some opportunities for research under the direction of the hospital's psychologist. Up to 16 quarter hours of undergraduate credit allowed for the practicum studentship. Offered only during the three summer months. Arrangements to be made by May 1 with the Director of the Child Guidance Clinic, in order to be sure that all necessary requirements have been met.
456. **School Supervision.** The function of the principal or supervisor in the improvement of instruction. Some activities, methods, and devices for improving the effectiveness of teaching. The course designed for present and prospective principals or supervisors who wish to familiarize themselves with accepted principles of supervision in elementary and secondary schools. Prerequisites, three courses in Education, and teaching experience. 4 hours.
- 460 (360). **Curriculum.** Modern practices and procedures in curriculum development; principles of evaluation; practice in evaluation and construction of curriculum areas, with attention to the professional, social, economic, and other major factors in curriculum planning. Prerequisite, consent of instructor. 4 hours.
465. **Seminar in the Psychology of Elementary School Subjects.** Psychological principles of learning applied to the mastery of materials used in the elementary school subjects. Studies by students in their areas of interest in the elementary school field; and studies in the literature pertaining to learning and to teaching—in that area. Individual conferences and library reports held regularly. 4 hours.
470. **Extraclass Activities.** A course designed to give the student an overall picture of the extraclass activities as they are found in present-day elementary and secondary schools. Student expected to specialize in one extraclass activity in terms of his own interest and needs. Prerequisite, consent of instructor. 4 hours.
- 500-510. **Graduate Seminar in Education.** For majors and minors in Graduate Education. How to choose research topics and how to conduct research activities. The selection of a subject for research and presentation of it, when completed, before the seminar group. 4 hours.
515. **Seminar in Advanced Educational Psychology.** A review of the various schools of psychology. Special emphasis on the learning process, mental fatigue, and personality adjustment. Psychological principles studied in the light of educational procedures. 4 hours.
523. **The Theory and Legal Basis of American Education.** Present-day objectives and principles of education in the light of the social theory upon which they rest. Guided reading and library research, with individual and group conferences. Special reports on selected problems. 4 hours.
525. **School Finance and School Plant Facilities.** One phase of this course dealing with the fiscal administration of the school, the other with the requirements of the school plant facilities. Accounting, budget making, budget administration, bonding, insurance, school building, school sites, costs, scoring, financing, equipment, maintenance, operation, and custodial service. 4 hours.
526. **Symposium on Techniques and Therapy in Individual Guidance.** The student encouraged to use his initiative and to bring together ideas, concepts, and learning which have been acquired in previous courses. Various intelligence, personality, and achievement tests used. Inter-

views held with a patient, his parents, and his teachers; and various opportunities for direct observations provided. Each patient given a physical examination by a physician. Students trained to operate technical machines, such as the telebinocular, the audiometer, the dermohmeter, and others. The student diagnostician working with one individual throughout the term; the carrying-out of technical research under the direction of members of the staff included. Prerequisites, as for 426. Thalman. 4 hours.

527. **Administrative Problems of Small Schools.** A field laboratory course for principals and superintendents, both elementary and secondary, focused upon specific problems presented by the students. Two days a week devoted to visiting schools in the area, and the remaining days spent in research and in the seminar. Problems of plant construction and maintenance, budgeting, evaluation, curriculum, of classroom organization, office practice, and administration. Specialists used as consultants where possible. Limited to administrators. 6 hours.
- 528 (428). **Therapeutic Treatment of the Individual Student.** A continuation of 426. Problems, characteristic of the patients studied, including those of normal and exceptional children and adolescents in classroom and home adjustments. Study and use of techniques for determining progress made in treatment. Prerequisite, 426 or 526. Note: A knowledge of genetics and zoology also urged as preparation. Thalman. 4 hours.
529. **Group Methods in Educational Therapy.** Individual research upon the interactions between the group and the individual as related to treatment. Prerequisite, 426 or 526. 4 hours.
535. **Research in Problems of Administration.** An intensive four-week course for school principals, on theory and principles of administration for small schools, special administrative problems, school plant evaluation, curriculum revision, class scheduling, budgeting and school accounting, community relationships, supervision; pupil accounting, and evaluation of instructional services. 4 hours.
539. **Community Development through the School.** A course requiring comprehensive survey of the resources of a particular community; the cataloging of material for use by the teachers of the community to help determine needed curriculum changes. 4 hours.
554. **Contrasting Philosophies of Education.** A course dealing, both historically and contemporaneously, with the ideologies which have developed from differing concepts of education; and emphasizing the alternatives facing American educators in the immediate future. 4 hours.
555. **Philosophical Foundations of Education.** A course examining, in the primary sources, the basic concepts which have influenced and are influencing modern education. Research in tracing down and reporting the development of these concepts; tests on general reading. 4 hours.
556. **Seminar in Educational Supervision.** The major objectives of the course: to guide the student in research on present practice and experiment in supervision; to acquaint the student with the theory and principles of supervision; to familiarize him with the courses of authoritative opinion and theory in the field; and to relate the theory and principles of supervision to those of teaching and administration. 4 hours.
561. **Curriculum Adjustment.** A thorough study of curriculum trends in the United States and also a thorough study of the curriculum of one individual school, with recommendations for a program of changes to be made. 4 hours.

## HEALTH EDUCATION

Assistant Professor Denny; Instructors Boatman (Acting Chairman), Bridges, Phillips.

A major in the Department of Health Education will not be offered at the present time. Students who started a major or minor in the Physiology and Health Education Department prior to its separation into two departments will be given an opportunity to complete their work. They should plan their programs jointly with Dr. Hinrichs and Mr. Boatman.

The Department of Health Education offers courses of study in various areas that are of interest to the future teacher, social worker, nurse, or public health worker. Students who are planning to teach on the secondary level in related fields of physical education, social studies, or biology will find courses which are applicable on a 24-hour minor, and which will enrich their field of major interest. Students who are planning to enter nursing schools, graduate schools of public health, or graduate schools of health education will be given individual counselling and guidance in the selection of their courses of study.

A minimum of 24 hours is required for a minor in Health Education. Twelve of the 24 hours must be in courses numbered 300 or above. Because of differences of individual needs, there will be some differences in the requirements for the minor, so individual guidance will be given.

Health Education 202 is required of all students of the University for graduation. Physiology 209a and Physiology 300 are required and applicable on the health education minor if they are not applied on the student's major.

Suggested courses for minors in Health Education are Health Education 200, 202, 210, 225, 232, 233, and 350.

The following courses are urged as background information for the prospective Health Education minor and are suggested as electives: Education 350, 421, and 426, Physiology 301, Health Education 313, and Sociology 375.

200. **Control of Communicable Diseases in the Public Schools.** A study of the principles of prevention of the communicable diseases most prevalent in public schools, and the application of these principles to the individual and to the community. Denny, Phillips, Bridges, Boatman. 2 hours. Fall, Winter, Spring.
202. **Health Education.** A survey course. The meaning of health; the building of health attitudes and practices; personal and community health problems; introduction to problems of healthful living in the public schools. Prerequisite, or its equivalent, for all 300 courses. For third-term freshman and advanced students only. Denny, Phillips, Bridges, Boatman. 4 hours. Offered each term.
203. **Physical Handicaps to Learning.** Designed for teachers to aid in detecting deviations from the health norms in children and young adults. Meaning of the health examination; methods used in correction of remediable defects; agencies whose help can be secured in the care of the physically handicapped. Denny, Phillips. 3 hours. Fall, or upon request.
206. **Hygiene of the Home.** Child hygiene in the pre-school age; home nursing care of the young child; first aid in the home; home sanitation; food preservation. Denny, Phillips, Boatman, Bridges. 2 hours. Spring and Summer.
210. **Home Nursing.** Theory; practice and demonstration in equipment and care of the sick room; routine care of patients; maternal and child care; recognition of more common symptoms of disease; administration of simple treatments. Denny. 4 hours. Fall, Winter, Spring.
225. **Community Health Problems.** Methods of water purification; sewage disposal; diseases transmitted by contaminated food, water, and milk;

the problem of food handling. Denny, Boatman, and Bridges. 3 hours. Winter.

230. **Safety in Physical Education.** The prevention and treatment of athletic injuries; the most commonly occurring athletic injuries and infections; methods considered for prevention, recognition, and treatment. Bridges and Phillips. 2 hours. Fall and Winter.
232. **Beginning First Aid.** Red Cross First Aid Course as a basis. Bridges, Denny, Phillips. 2 hours. Spring and Winter.
233. **Advanced First Aid.** Red Cross First Aid Course as a basis. Prerequisite, Health Education 232 or its equivalent. Bridges, Denny, Phillips. 1 hour.
250. **History of Nursing.** Nursing ethics; relations of the activities of doctor, patient, nurse, and hospital, and responsibilities of each. Denny. 2 hours. Offered upon request.
252. **Introduction to Nursing Care. Elementary Therapeutics.** Designed for students interested in a nursing career. Denny. 3 hours.
302. **Driver Education and Training.** To prepare the college student for teaching Driver Education and Training in the secondary school. The different instruction plans outlined; obtaining the car, insurance, road testing, psycho-physical testing, and source materials carefully treated. Driver Education and Training certificates to be awarded class members who satisfactorily complete the course. Prerequisite, Illinois Drivers License. Bridges. 2 hours. Fall and Spring or Summer.
306. **Introduction to Health Education.** An introduction to the philosophy of health education. Stress placed upon the significance of the teacher's understanding the growth and development of the child. Denny, Phillips, Bridges, Boatman. 3 hours. Fall and Spring.
310. **Public Health Aspects of Maternal and Child Hygiene.** Public health programs concerned with maternal and child hygiene studied; community responsibilities for maternal and child hygiene discussed. Denny, Boatman. 2 hours.
311. **Child Development.** Physical development of the child, beginning with the study of pregnancy, prenatal and postnatal care, and the physical development of the child from birth to puberty. To supplement Education 343. Denny. 2 hours.
312. **Emotional Health.** Designed for prospective teachers and parents. Emotional health of the teacher and parent discussed in terms of its influence upon the child in the classroom. Prerequisite, Health Education 311, or its equivalent. Denny. 4 hours.
313. **Health and Safety.** Preparation for teaching safety education in public schools. Traffic safety given major consideration, but other phases of safety education and health treated. Bridges, 4 hours. Summer and Fall.
350. **Health Education Methods and Materials Applicable to Public Schools.** Designed to show the prospective teacher the scope of the school health program; environment, health services, community responsibilities, classroom teaching, and relationship of school health program to other areas of school program. Emphasis upon the importance of a school health program and the teacher's role in the program; teacher's relationship to physician, nurse, and parent. Demonstration of vision, hearing, and daily screening techniques and study of various equipment and materials used in the school health program. Recommended for all prospective teachers. Prerequisite, Health Edu-

cation 202, or its equivalent. Denny, Phillips, Bridges, Boatman. 4 hours. Offered two or three times during year, as required.

355. **Public Health Administration.** An introduction to the federal, state, and local official public health agencies, and voluntary public health agencies; their organization, functions, and relationship to school and community health programs. Work emphasized by visits to local and state public health agencies. Prerequisite, Health Education 306, or 350. Boatman, Denny. 4 hours. Spring.
361. **Workshop in Health Education.** Summer course designed for in-service teachers, administrators, advanced students, nurses, social workers, and others interested in public health aspects of school and community living. Individual problems of classroom health treated as units of study, together with other units in such fields as speech defects and their detection and correction, communicable disease control, nutrition, social and mental hygiene. Lectures, demonstrations, films, field trips and individually supervised research in special problems. Prerequisite, Health Education 202, or its equivalent. Denny, Phillips, Bridges, Boatman. 8 hours. Summer.
365. **Problems of Health Education in the Public Schools.** A study of existing health education programs in the public schools, emphasized by observations of type programs in off-campus schools; investigation of recent developments in education and their influence upon school health education. Prerequisite, Health Education, 350, or its equivalent. Boatman. 4 hours. Fall or Spring.
- H. **Honors course in any of the Fields of Health Education.** Introduction to research; registration limited to one student per term. Dr. Marie Hinrichs together with staff of Health Education Department. 4-6 hours.

## PHYSICAL EDUCATION FOR MEN

Associate Professors Lingle, Martin; Assistant Professors Franklin (Chairman), Holder; Instructors Freeberg, Wilkinson.

Physical Education courses 151, 152, and 153 are required of all freshmen and are part of the general university requirements for graduation. All students must have these courses for graduation or offer, in lieu thereof, three quarters of competition on a varsity squad, each quarter in a different sport. Six hours of Physical Education activity is the maximum credit which may be accepted toward graduation requirements.

Courses 145, 149, 151, 152, 153, 170, 171, 172, 173, 174, and 175 do not count toward a major or minor. Physical Education 230, Folk Dance, and Physical Education, 239, Social Dancing, taught in the Department of Physical Education for Women may be substituted for a similar period of 151, 152, or 153.

It is required that regulation gym suits be worn in all activity classes in Physical Education. These may be purchased at the book store for approximately one dollar (trunks and jersey). Combination locks for lockers may be rented or bought at the book store.

Forty-eight quarter hours in the Department of Physical Education for Men (exclusive of the required freshman Physical Education or its equivalent) and approval of the Chairman of the Department are required for a major in Physical Education. These courses include 206, 207, 220, 221, 241, 302, 303, 340 353, 370, 375, 380, plus a minimum of 13 quarter hours of sports techniques and theory selected from courses 210, 257, 330, 358, 372, and 356.

For a minor in Physical Education, 24 hours are required, including 206, 220, 221, 241, 302, and 340, plus a minimum of 4 hours elected from courses 210, 257, 330, 356 358, 372, electives to total 24 hours, and approval of the Chairman of the Department.

Courses 245, Conduct of Play Activities, and 319, Teaching Elementary School Group Activities, taught in the Physical Education Department for Women, may be taken as part of the major in Physical Education.

Physiology 209a, Introduction to Physiology, 4 hours, and Physiology 303, Physiology of Exercise, 2 hours, are recommended as outside electives for majors in Physical Education.

At the present time no graduate work is offered in the Department of Physical Education for Men.

Suggested Curriculum in College of Education

Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
P. E. 241 or 206...	2	P. E. 207.....	2	P. E. 153 or Equiva-	
P. E. 151 or Equiva-		P. E. 152 or Equiva-		lent .....	2
lent .....	2	lent .....	2	Health Ed. 202.....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or Mus. 100	3	Geog. 100, Soc. 101		Math. 106, Physics,	
Govt. 101 or 231....	5	or Econ. 205.....	5	or Chem. ....	4
Electives .....	2	Electives .....	5	Electives .....	4
	17		17		17

Sophomore Year

P. E. 220.....	2	Eng. 205, 206, 209,		Eng. 390 or Speech	
P. E. 241.....	2	211 or 212.....	3	101 .....	3-4
Eng. 205, 206, 209,		Eng. 300 .....	3	Educ. 305, 306, 345.	4
211 or 212.....	3	Geog. 100, Soc. 101		Hist. 201 or 202....	5
Educ. 205 .....	4	or Econ. ....	5	Zool. 101 .....	5
Math., Physics or		Math., Physics or			
Chem. ....	4	Chem. ....	4		17-18
Electives .....	2	Electives .....	2		
	17		17		

Junior Year

P. E. 257 and/or*..	2	P. E. 210 and/or*..	2	P. E. 372 and/or*..	4
P. E. 358*.....	3	P. E. 330*.....	3	P. E. 356*.....	5
P. E. 340.....	3	P. E. 221.....	2	P. E. 353.....	4
Educ. 315 .....	4	P. E. 302†.....	4	P. E. 303†.....	5
Educ. 310 .....	4	Physiol. 300 .....	4	Electives .....	4
Electives .....	2	Electives .....	2		
	15-18		14-17		17-18

Senior Year

P. E. 370.....	4	P. E. 375.....	4	Student Teaching ..	12
Educ. 331 .....	4	P. E. 380.....	4	Electives .....	5
Electives .....	10	Electives .....	10		17
	18		18		

\* A minimum total of 13 quarter hours must be selected from the 19 quarter hours offered in Baseball, Basketball, Football, and Track.

† Prerequisite, Physiology 300, (Anatomy).

‡ Must be completed before enrolling for supervised Student Teaching in Physical Education.

Electives must include 3 hours of Practical Arts and Crafts if not taken in high school.

145\*. Physical Education. Softball, track, archery, tennis. Equivalent in credit to 151, 152, or 153. 2 hours. Summer.

149.\* Adapted and Restricted Activities. For students with functional or structural disorders. Credit equivalent to 151, 152, or 153. 5 times a week. 2 hours. Fall, Winter, and Spring.

151.\* Physical Education. Group games, relays, individual combative contests, touch football, volleyball, and speedball. 1 hour a day, 5 days a week. 2 hours. Fall.

\* Do not count toward major or minor.

- 152.\* **Physical Education.** Basketball, aerial darts, badminton, table tennis, paddle tennis, games of low organization, wrestling, stunts, tumbling, and apparatus. 1 hour a day, 5 days a week. 2 hours. Winter.
- 153.\* **Physical Education.** Track and field events, softball, tennis, archery, horseshoes, golf, and games of low organization. 1 hour a day, 5 days a week. 2 hours.
- 170.\* **Football.** Physical Education credit given to the men remaining on the squad of the University-supported football team during the fall term. Students with no chance of making the team not dropped from the squad, but encouraged to learn the game and to participate for its inherent values. 5 days per week. 2 hours.
- 171.\* **Basketball.** Same observations hold for this course as for 170, so long as the student is retained on the varsity squad.
- 172.\* **Track.** See comments under 170.
- 173.\* **Tennis.** See comments under 170.
- 174.\* **Gymnastics.** See comments under 170.
- 175.\* **Baseball.** See comments under 170.
202. **Wrestling.** Course designed to give a knowledge of rules, teaching methods, and history, and to give practical work in wrestling techniques. 1 hour a day, 4 days a week. 3 hours. Winter.
204. **Elementary Swimming.** Instruction and practice in all of the beginning fundamental strokes, floats, and kicks. Individual instruction given as needed. 2 hours. Summer.
205. **Advanced Swimming.** Further practice and study of all recognized strokes; development of speed, endurance, rhythm, and timing stressed. Prerequisite, passing of elementary swimming test. 3 days a week, 2 hours a day, for 4 weeks. 1 hour. Summer.
206. **Stunts and Tumbling.** Course aimed principally to develop, by practice, individual technique in calisthenics, tumbling, simple stunts, and trampoline work; also to develop in students safety, skills, and teaching techniques, as well as to teach them a number of activities. 1 hour a day, 4 days a week. 2 hours. Fall.
207. **Apparatus.** Course aimed principally to develop in students individual techniques, in calisthenics and in heavy apparatus; also, to develop in them safety skills and teaching techniques as well as to teach them a number of activities. 1 hour a day, 4 days a week. 2 hours. Winter term.
210. **Basketball Techniques.** Course dealing with individual basketball fundamentals, with special emphasis on passing, pivoting, basket-shooting, dribbling, and individual defense. 1 hour a day, 4 days a week. 2 hours. Winter term.
220. **Recreational Activities and Games (outdoor).** Techniques, skills, and rules taught by student participation in individual and group outdoor recreational sports. 4 days a week. 2 hours.
221. **Recreational Activities and Games (indoor).** Techniques, skills, and rules taught by student participation in individual and group indoor recreational sports. 4 days a week. 2 hours.
230. **Basic Rhythms and Folk Dancing.** 2 days a week. 1 hour.
236. **Tap and Character Dancing.** 2 days a week. 1 hour.
240. **Golf Techniques.** A course dealing with golf fundamentals, such as the grip, stances, address, forward and backward swing, and follow-through. Individual instruction given as needed. 1 hour.

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\* Do not count toward major or minor.

241. **Introduction to Physical Education.** A discussion of the purposes of physical education, the training required for teachers, the programs of physical education, vocational possibilities in the profession, the scientific foundation of physical education, and present trends in the field. 2 days a week. 2 hours.
250. **Materials and Methods for Teaching Physical Education in the Elementary Schools.** Study, demonstration, and practice of the physical education activities of children from six to fourteen years of age; graded lists of activities adapted to the various age-periods of children; organization and management of the activities and methods in the leadership of them. 1 hour a day, 4 days a week. 4 hours.
257. **Football Techniques.** Individual instruction and practice in all the fundamentals of the game, such as passing, kicking, tackling, blocking, running with the ball; student participation in actual scrimmage. 4 days a week. 2 hours. Fall.
302. **Materials and Methods for Teaching Physical Education Activities in Junior and Senior High Schools.** Study, demonstration, and practice of the "total-body" activities adapted to the needs, interest, and capacities of junior and senior high school boys; emphasis placed upon principles of leadership in an organized schedule, or in outdoor and indoor developmental activities which necessitate a thorough knowledge of the purposes, aims, and remote and immediate objectives of physical education, and of the changing factors in the building of a school program. 1 hour a day, 4 days a week. 4 hours.
303. **Kinesiology.** The mechanical analysis of physical education activities through the study of joint and muscle action. 1 hour a day, 5 days a week. Prerequisite, Physiology 300. 5 hours.
306. **Advanced Stunts and Tumbling.** Course a continuation of Physical Education 206, and, in addition to practice and safety drills, emphasis upon teaching methods. 1 hour a day, 4 days a week. 2 hours. Fall.
307. **Advanced Apparatus.** Continuation of Physical Education 207, and, in addition to practice and safety skills, more emphasis on teaching methods. 1 hour a day, 4 days a week. 2 hours. Winter.
321. **History of Physical Education.** An historical survey of physical education from ancient times through the modern period, showing the relation between aims and practices in physical education and social and physiological needs of different periods. Three days a week. 3 hours.
327. **Boy Scout Leadership Training.** The principles of the Boy Scout movement, together with aids for the finding of source material; practical demonstrations and active leadership required of each student. Prerequisite, junior standing. 2 hours.
330. **Basketball Theory.** Different types of offense and defense studied; special emphasis given to early season practice, offensive and defensive drills, team strategy, care of minor injuries, and rules of the game. Prerequisite, Physical Education 210, or permission of the instructor. 1 hour a day, 3 days a week. 3 hours.
340. **The Principles of Physical Education.** A course aiming to develop an understanding of the scientific foundations of a sound program of physical education as implied by the accepted principles of psychology, physiology, sociology, biology, educational method, philosophy, anatomy, kinesiology, and related areas. 3 hours.
351. **Recreation and Physical Education for Atypical and Handicapped Individuals.** Techniques of physical examinations, postural defects and their correction; activities suitable for the atypical program building; and correlation of this program with the physical education curriculum. 4 days a week. 4 hours.

353. **The Organization and Administration of Physical Education.** A course including the problems of the administrator, such as the grading, care and maintenance of playgrounds and gymnasiums, student leadership in physical education, purchase and care of equipment, organization and administration of an intramural program. 1 hour a day, 4 days a week. 4 hours.
355. **Assisting Techniques.** A course giving actual opportunities in assisting in teaching experience on the college level, with as varied a program of activities as the student schedule permits; the professional and required classes as well as the intramural program furnishing experiences in officiating and assisting in teaching activities according to season. 2 hours.
356. **Track and Field Theory and Technique.** Instruction and practice in all individual track and field events; actual performance in all events required of the student; methods of organizing and conducting track and field meets as a part of the course. 2 hours a day, 5 days a week. 5 hours. Spring.
- 358 (258). **Football Theory.** A course dealing with all phases of the game: offensive and defensive formation analyzed; the strength and weakness of each studied; the various types of individual plays analyzed; rules of the game discussed. Prerequisite, Physical Education 257, or permission of the instructor. 1 hour a day, 3 days a week. 3 hours. Fall.
- 360 (260). **Playground Administration.** Practical study of such problems as providing facilities and equipment, setting up the program, budgeting and financing, selecting and supervising the personnel, and building good will. 1 hour a day, 4 days a week. 4 hours.
365. **The Organization and Administration of Community Recreation.** Practical study made of such problems as providing facilities and equipment, setting up the program, budgeting and financing, selecting and supervising the staff, integrating the administration, and building good will. 4 hours.
368. **Camping Administration.** To develop an understanding of accepted methods of selecting and managing personnel, planning programs, maintaining health and safety measures, preparing food, developing camp counselors, evaluating camps, administering business, and doing other related procedures involved in setting up and running a camp. 4 hours.
370. **Tests and Measurements in Physical Education.** The theory of measurements in health and physical education, the selection and administration of appropriate tests, and the interpretation of results. Project required. 4 hours.
372. **Baseball Theory and Technique.** The technique of batting, fielding, and playing the different positions; the strategy of the game; the conduct of daily practice; study of rules and play situations; also, methods of teaching baseball. 1 hour a day on Monday and Wednesday, 2 hours a day on Tuesday and Thursday. 4 hours.
375. **Theory and Practice in the Training and Care of Athletes.** To explain the psychological and physiological principles of sound coaching methods, to provide actual practice in bandaging and strapping, and to discuss the care and conditioning of athletes for competition in sports. 4 hours.
380. **The Organization and Administration of Interscholastic Athletics.** To explain and discuss the handling of administrative details related to the purchase and care of equipment, sports awards and point systems, transportation of athletes, insurance and liability for accidents, financing, public relations, scheduling of games, and hiring of officials. 4 hours.

PHYSICAL EDUCATION FOR WOMEN

Professor Davies (Chairman); Assistant Professor Muzzey; Instructor Stehr.

The Department of Physical Education for Women offers courses leading to the Bachelor of Science in Education Degree.

The courses presented for graduation must include the following:

1. Three courses selected from the following group: 101H, 101S, 101SP, 101A, 102, 102A, 103, 103A, and
2. Three courses selected from the following: 201A, 202A, 203A, 204, 205, 206, 207, 211, 212, 213, 214, 215, 216, 218, 222, 230, 233, and 239.

However, students majoring or minoring in Physical Education should take the following courses: 104, 105, 106, 223, 224, and 225, which correspond to the six activity hours required of all University students.

Forty-two hours, in addition to the courses listed in the preceding paragraph, are required for a major in Physical Education, a total of forty-eight hours. Twenty-six hours are required for a minor in Physical Education, in addition to the required six activity hours, a total of thirty-two hours.

A major in this Department must include the following courses: 245, 303, 304, 305, 306, 307, 308, 309, 350, 351, 352, 353, 354, 314, 315, 373, and 374.

A minor in this Department must include the following: 245, 304, 305, 306, 307, 308, 309, 350, 353, and 354.

Suggested Curriculum in College of Education

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
P. E. 104.....	1	P. E. 105.....	1	P. E. 106.....	1
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or Music 100..	3	For. Lang. ....	3	For. Lang. ....	3
For. Lang. ....	3	Math. 106 or 111.....	4	Government 101 .....	5
Zoology 101 .....	5	Soc. 101 or Geog. 100..	5	Math. 107 or 112.....	4
	15		16		16
Sophomore Year					
P. E. 223.....	1	P. E. 224.....	1	P. E. 225.....	1
P. E. 233.....	1	P. E. 245.....	4	Educ. 206 .....	4
Chem. 101 or Phys 101.	4	Econ. 205 .....	5	Hist. 201 or 202.....	5
Eng. 205, 206, 209, 211		Eng. 205, 206, 209, 211,		Speech 101 .....	4
or 212 .....	3	or 212 .....	3	Electives .....	3
H. Ed. 202.....	4	Electives .....	4		
Electives .....	3		17		17
	16				
Junior Year					
P. E. 304.....	2	P. E. 306.....	2	P. E. 307.....	2
P. E. 305.....	2	P. E. 352.....	2	P. E. 309.....	2
P. E. 350.....	3	P. E. 354.....	2	P. E. 315.....	1
P. E. 351.....	4	Educ. 315 .....	4	Eng. 300 .....	3
P. E. 373.....	1	Electives .....	6	Educ. 310 .....	4
Educ. 305 .....	4		16	Elective .....	4
	16				16
Senior Year					
Physiol. 300 .....	4	P. E. 303.....	5	P. E. 353.....	4
Stud. Tchg. ....	12	P. E. 308.....	4	Electives .....	12
	16	P. E. 374.....	1		
		Educ. 331 .....	4		16
		Electives .....	2		
			16		

A student must have 3 hours in Agriculture, Business Administration, Home Economics, or Industrial Education, unless these subjects were carried in high school.

Suggested Physical Education electives are 204 or 205, 207, 215, 230, 239, 311, 317, 348, and 376.

Other suggested electives are Education 312, 420, 421, Health Education 200, 232, 306, and Physiology 209a.

With a 48-hour major in Physical Education, the student is expected to have one 24-hour minor in another subject.

## Activity Courses

Students who are advised by the Medical Department to restrict their activities should register in a course marked with an "A" or an asterisk.

All activity courses numbered 100 meet 3 days a week.

All activity courses numbered 200 meet 2 days a week.

Not more than one of these courses may be taken in any one term without special permission from the Department.

**101H. Hockey.** Techniques, skills, and team tactics. For freshmen only. 1 hour.

**101S. Soccer.** Techniques, skills, and team tactics. For freshmen only. 1 hour.

**101SP. Speedball.** Techniques, skills, and team tactics. For freshmen only. 1 hour.

**101A. Individual Physical Education.** A course for students who are physically unable to participate in the regular physical education activities. Horseshoes, croquet, badminton, shuffleboard. 1 hour.

**102. Basketball and Posture Correction.** Continuation of 101. 1 hour.

**102A. Individual Physical Education.** Continuation of 101A. Posture correction, table tennis, and bowling. 1 hour.

**103. Volleyball and Folk Dancing.** Continuation of 102. 1 hour.

**103A. Individual Physical Education.** Continuation of 102A. Folk dancing, deck tennis, paddle tennis, golf, croquet, and shuffleboard. 1 hour.

**104. Speedball.** Techniques, skills, and team tactics. For highly skilled girls, and majors and minors. 1 hour.

**105. Basketball and Posture Correction.** Continuation of 104. 1 hour.

**106. Volleyball and Folk Dancing.** Continuation of 105. 1 hour.

**201A, 202A, 203A. Adapted Physical Education.** Hours to be arranged by conference.

**204.\* Swimming.** Strokes and safety devices for beginning swimmers. 1 hour.

**205.\* Swimming.** Intermediate and advanced techniques and strokes. 1 hour.

**206. Volleyball.** A course on advanced techniques and team tactics for the game of volleyball. 1 hour.

207. **American Square Dance and Mixers.** A course presenting the square dances common in various geographical areas of the United States; additionally, many of the mixers or get-acquainted dances for starting parties. 1 hour.
211. **Hockey.** 1 hour.
212. **Basketball.** 1 hour.
213. **Softball.** 1 hour.
- 214.\* **Archery.** 1 hour.
215. **Badminton.** 1 hour.
216. **Tennis.** 1 hour.
- 218.\* **Individual Sports.** Badminton, duck pins, and other recreational sports. 1 hour.
- 222.\* **Golf.** Strokes, rules and regulations of the game. 1 hour.
223. **Hockey.** Techniques and skills. 1 hour.
224. **Tap Dancing.** Fundamentals and routines. 1 hour.
225. **Tennis.** Skills and techniques. 1 hour.
- 230.\* **Folk Dancing.** Fundamental steps and dances of various countries. 1 hour.
233. **Modern Dance.** Fundamentals of movement and composition. A basic course, leading to the creating of contemporary dance compositions. 1 hour.
- 239.\* **Social Dancing.** Fundamental steps of ballroom dancing. For beginners only. 1 hour.
313. **Speedball.** 1 hour.
314. **Modern Dance.** 1 hour.
315. **Golf.** 1 hour.
316. **Swimming.** Advanced techniques. 1 hour.
317. **Life Saving and Water Safety.** Techniques of Red Cross Life Saving and Water Safety. 1 hour.
373. **Archery.** 1 hour.
374. **Advanced Dancing.** 1 hour.
375. **Recreational Sports.** 1 hour.
376. **Advanced Modern Dancing.** Prerequisite, 233 or 314, or consent of instructor. 1 hour.

### Theory Courses

245. **Theory of Play Activities.** A course dealing with age interests and characteristics of childhood and adolescence, and the adaptation of physical education activities to these. 4 hours.
303. **Kinesiology.** The mechanical analysis of physical education activities through the study of joint and muscle action. (Taught in the Department of Physical Education for Men). 5 hours.

304. **Techniques of Teaching Soccer and Volleyball.** Methods of teaching, construction of daily lesson plans, and analysis of techniques. 2 hours. Fall.
305. **Techniques of Teaching Hockey and Speedball.** Methods of teaching, construction of daily lesson plans, and analysis of techniques. 2 hours. Fall.
306. **Techniques of Teaching Basketball.** Methods of teaching, construction of lesson plans, and analysis of techniques. 2 hours. Winter.
307. **Techniques of Teaching Tumbling, Stunts, Track and Field.** A continuation of 306. 2 hours. Spring.
308. **Methods of Teaching Dance.** A comprehensive course dealing with each of the various types of dance, including fundamentals, progressions, and competition in each type. Prerequisites, 102, 224, and 233, or equivalent. 4 hours. Winter.
309. **Techniques of Teaching Softball, Tennis, and Gymnastics.** Methods of teaching, construction of lesson plans, and analysis of techniques. 2 hours. Spring.
310. **Theory of Officiating Hockey.** A study of requirements of a good official. Standards of umpiring field hockey as set up by the United States Field Hockey Association. 1 hour. Fall.
311. **Theory of Officiating Basketball.** Study of requirements of a nationally-rated official, and practice in officiating. 1 hour. Winter.
312. **Theory of Officiating Softball.** Study of requirements of a nationally-rated official as set up by the National Section on Women's Athletics. 1 hour. Spring.
319. **Teaching Elementary School Group Activities.** Study of age characteristics; planning of an activity program for all grade levels; care of equipment; techniques of teaching activities for elementary grades. Planned to fulfill the requirements of the State of Illinois for elementary school teachers. 4 hours.
345. **Supervision of Physical Education.** The functions of the supervisor of physical education; program-planning, grading and planning of the progression of activities and devices for improving instruction. 2 hours.
348. **Camp and Community Leadership.** Fundamentals of Scouting, camping, counselling. 2 hours.
350. **Materials and Methods for Teaching in Elementary and Secondary Schools.** A course designed for supervisors and teachers of physical education. Curriculum planning, based on grade characteristics and educational philosophy, creative rhythms, singing games, folk dancing, games of low organization—skills, skill tests, lead-up games, stunts, and tumbling. 3 hours. Fall.
351. **Recreation and Physical Education for Atypical and Handicapped Individuals.** Techniques of physical examinations; postural defects and their correction; activities suitable for the atypical; program building; and correlation of this program with the physical education curriculum. 4 hours. Fall.
352. **History of Physical Education.** An historical survey of physical education from ancient times through the modern period, showing the relation between aims and practices in physical education and social and physiological needs of different periods. 2 hours. Winter.

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- 353. Organization and Administration of Physical Education.** Criteria for the selection of activities, the organization of classes, the policies and the personnel; the physical plant and its upkeep; the planning, utilization, and care of equipment in the physical education program. 4 hours. Spring.
- 354. Principles of Physical Education.** The fundamental principles, aims, and objectives of physical education, the place of physical education in the educational program, and the problems of athletics. 2 hours. Winter.
- 355. Techniques of Teaching Swimming and Life Saving.** Methods of teaching, analysis of strokes, and devices for teaching swimming and life saving. 3 hours.

## COLLEGE OF LIBERAL ARTS AND SCIENCES

### Degrees Granted

The College of Liberal Arts and Sciences grants the degree of Bachelor of Arts.\*

#### Requirements for Graduation

Each candidate for the bachelor's degree must meet the following requirements:

192 quarter hours' credit in approved courses.

Of this, 64 quarter hours must be in courses numbered 300 and above, of which 48 must be in residence. No departmental method courses or student teaching may be counted in fulfillment of the degree requirements, except as stated below.

A grade point average of 3.0, and grades not lower than C in subjects aggregating at least three-fourths of the work. C average is required in the major subjects.

General education requirements as listed on pages 36 and 37.

4 hours in psychology or philosophy.

A reading knowledge of a foreign language. This ordinarily requires 9 hours of university study or its equivalent.

A major of at least 42 hours, and a minor of at least 24 hours, in the following subjects (some departments require more):

† Art	Foreign Language	‡ Home Economics	Physiology
Botany	Geography	Mathematics	Physics
Chemistry	Government	Microbiology	† Speech
† Economics	History	† Music	Sociology
English		‡ Philosophy	Zoology

Pre-professional courses: Students planning to take Pre-dental, Pre-legal, Pre-medical, Pre-pharmaceutical, or Pre-veterinary courses should register in the College of Liberal Arts and Sciences.

Limited High School Teaching Certificate: Students enrolled in the College of Liberal Arts and Sciences may meet the state requirement for a limited high school teaching certificate by using as their electives certain prescribed courses in the College of Education. Approval of such schedule should be secured in advance from the Dean of the College of Education. Students who plan to enter teaching as a profession should enroll in the College of Education.

### Pre-Professional Courses

#### Pre-Medical, Pre-Dental, and Pre-Veterinary

Dr. Marie A. Hinrichs is the general adviser for all students who plan to enter medical school or dental school, or to train themselves for careers in any related field.

All such students should plan their curricula very carefully, in consultation with her. They will all need at least two years' work in chemistry, including some qualitative and some organic chemistry, and one year of biology (zoology). Since they are not expecting to receive a degree from Southern, they will not necessarily be held to all the requirements for the bachelor's degree at this school; they must, on the other hand, keep con-

\* A student may receive the degree of Bachelor of Science upon recommendation of the Chairman of the Department and approval of the Dean of the College.

† Liberal Arts, not professional majors.

‡ Minors only.

stantly in mind the requirements for admission and the later required courses in the special schools which they wish to attend. Each student should write for the catalog of the school he wishes to attend.

Pre-Pharmacy

Pre-pharmacy students should consult Dr. Hinrichs for suggestions for courses.

Pre-Legal Study

American law schools have no specific pre-legal requirements. Some law schools require a two-year pre-legal background; some require three years of pre-law; and a few of the leading schools now require four years.

A number of universities permit law students, if they take their third year of pre-legal work at those universities, to receive both the B.A. and the LL.B. upon completion of their legal training.

In general, pre-law students should take as much work as possible in the following subjects: English, speech, economics, government, history (especially English and American), sociology, geography, psychology, philosophy, and logic.

If a foreign language is recommended or required by the law school which the student plans to attend, or if the student is uncertain as to his choice of law school, French or Latin is suggested.

Outside the above-mentioned departments and courses, the pre-legal student is free to take the electives of his choice.

BOTANY

Associate Professor Welch (Chairman); Assistant Professors Kaeiser, Marberry.

For a major in Botany, nine courses are required, including 101, 202, 203, 210, 320; for a minor, six courses, including 101, 202, 203.

Suggested Curriculum in College of Education

Fall		Freshman Year		Spring	
	Hours		Hours		Hours
Bot. 101 .....	5	Bot. 202 .....	5	Bot. 203 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Soc. Studies .....	5	Soc. Studies .....	5	Soc. Studies .....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	14-15		14-15		14-15
		Sophomore Year			
Bot. 210 .....	5	Zool. 101 .....	5	Zool. 105 .....	5
Music or Art.....	3	Eng. 205, 206, 209,		Eng. 205, 206, 209,	
Soc. Studies .....	5	211, or 212.....	3	211, or 212.....	3
P. E. (Women).....	1	Soc. Studies .....	3-5	H. Ed. 202.....	4
Electives .....	3	P. E. (Women).....	1	Math. ....	4
	16-17	Electives .....	3	P. E. (Women)....	1
			14-18		16-17
		Junior Year			
Zool. ....	5	Bot. 350 .....	4	Bot. 320 .....	5
Chem. ....	4	Chem. or Math.....	4	Eng. 300 .....	3
Educ. 205 .....	4	Educ. 305, 306, or		Educ. 315 .....	4
For. Lang. ....	3	345 .....	4	For. Lang. ....	3
	16	For. Lang. ....	3	Electives .....	2-3
			15		17-18
		Senior Year			
Bot. 470 .....	4	Bot. 421 .....	5	Bot. 315 .....	5
Stud. Tchg. ....	12	Educ. 310 .....	4	Educ. 331 .....	4
	16	Electives .....	7-8	Zool. ....	5
			16-17	Electives .....	3-4
					17-18

Electives must include three hours of Practical Arts and Crafts if these were not taken in high school.

## Suggested Curriculum in College of Liberal Arts and Sciences

## Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Bot. 101 .....	5	Bot. 202 .....	5	Bot. 203 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Soc. Studies .....	5	Soc. Studies .....	5	Soc. Studies .....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	<u>14-15</u>		<u>14-15</u>		<u>14-15</u>

## Sophomore Year

Bot. 210 .....	5	Zool. 101 .....	5	Zool. 105 .....	5
Eng. 205, 206, 209, 211, or 212.....	3	Eng. 205, 206, 209, 211, or 212.....	3	Math. ....	4
Music or Art.....	3	H. Ed. 202.....	4	P. E. (Women)....	1
Soc. Studies .....	3	P. E. (Women)....	1	Electives .....	7
P. E. (Women)....	1	Electives .....	3		<u>16-17</u>
	<u>16-17</u>		<u>16-17</u>		

## Junior Year

Zool. ....	5	Bot. 350 .....	4	Bot. 320 .....	5
Chem. ....	5	Chem. ....	5	Chem. ....	5
Soc. Studies .....	3-5	Educ. 206 .....	4	For. Lang. ....	3
For. Lang. ....	3	For. Lang. ....	3	Electives .....	5
	<u>16-18</u>		<u>16</u>		<u>18</u>

## Senior Year

Bot. 301 .....	5	Bot. 302 .....	5	Bot. 303 .....	5
Bot. 340 .....	5	Bot. 421 .....	5	Bot. 315 .....	5
Electives .....	7-8	Electives .....	7-8	Electives .....	7-8
	<u>17-18</u>		<u>17-18</u>		<u>17-18</u>

Electives must include three hours of Practical Arts and Crafts if these were not taken in high school.

101. **General Botany.** Study of the vegetative and reproductive organs of the higher seed plants, with emphasis on the general biological phases of the subject; identification and recognition of common trees by leaf and stem characters, or bud and stem characters in season; their economic importance. Laboratory, lecture, and field studies. Staff. 5 hours. Fall, Winter, and Spring.
131. **Field Biology.** A course for those who are planning to teach in the rural or elementary schools; methods for the identification of various types of plants and animals, such as trees, weeds, birds, and insects; location of source material suitable for teaching nature study in the elementary grades stressed. Laboratory, lecture, and field work. Marberry. 5 hours. Fall and Spring.
202. **General Botany.** A brief study of representative plants of the great plant groups; the general classification of plants; and the evolution of the plant kingdom. Laboratory, lecture, and one required all-day field trip. Student cost about \$5.00. Prerequisite, 101. Kaeiser and staff. 5 hours. Winter and Summer.
203. **Systematic Botany.** A study of the principles of classification and use of manuals, and work in classifying and identifying seed plants and ferns of the local flora. Field work and lecture. Student cost about \$5.00. Marberry. 5 hours. Spring and Summer.
204. **Taxonomy of Cultivated Plants.** A study of the classification of woody and herbaceous cultivated plants, both Exotic and Native plants; their growth requirements; placement around buildings; a hybridization project of some selected cultivated plant carried out.

Four all-day field trips required (Saturdays). Student cost about \$6.00. Prerequisite, Botany 101, 203. Marberry. 5 hours. Spring and Summer.

210. **Plant Anatomy.** A general course, introduced by a detailed study of cell division, and dealing with the origin, development, and maturation of the structures of the vascular plants. Laboratory, discussion, and lecture. Prerequisite, 101, 202. Welch. 5 hours. Fall and Summer.
301. **The Algae.** A study of the structure, development, and relationships of the algae; evolution of the plant body; origin and evolution of sex in plants. Laboratory, lecture, recitation, and some field work. Prerequisite, 101, 202. Kaeiser. 5 hours. Fall.
302. **The Bryophytes and Pteridophytes.** A study of the structure, development, and relationships of the liverworts and mosses, and the ferns and fern allies; the problems of the evolution of the sporophyte, alternation of generation, and heterospory. Laboratory, lecture, and recitation. Prerequisite, 101, 202. Kaeiser. 5 hours. Winter.
303. **The Spermatophytes.** A study of the structure, development, and relationships of the gymnosperms and angiosperms; the vascular anatomy of these plants; the development of flowers, gametophytes, embryology; and the development and structure of seeds. Laboratory, lecture, and recitation. Prerequisite, 101, 202, 203. Kaeiser. 5 hours. Spring.
314. **Heredity and Development.** A study of the principles of heredity and variation in relation to plants and animals, including the human being; a review of the principles of eugenics as practiced in the United States; a study of the development of the relationship of animals and plants of the past. Course usually given by extension. Lecture only. Welch. 4 hours.
315. **Genetics.** (Same as Zoology 315). A general course involving the principles of evolution and genetics, with experimental work in breeding strains, etc. Prerequisite, approval of the department. Staff. 5 hours. Spring.
320. **Elements of Plant Physiology.** A study of the functions of the plants and their relation to the various organs. Laboratory, lecture, and discussion. Prerequisites, Botany 101, 202. Desirable antecedents, Botany 210 and a course in Physics. Welch. 5 hours. Fall and Spring.
- 321 (421). **Histological Technique.** (Same as Zoology 321). The latest methods of preparing histological material. Prerequisite, one year of Zoology or Botany. Staff. 5 hours. Winter.
340. **Plant Ecology.** A general course, consisting of a study of the ecology of individual plants and plant communities. Lecture, recitation, field, and laboratory studies. Student cost about \$7.00. Prerequisites, 101, 202, 203. Marberry. 5 hours. Fall and Summer.
350. **Plants in Relation to Man.** A study of the basic relationships of plants to the life of man; the history, geography, crop ecology, production, consumption, and uses of plants and plant products of economic importance. Lecture and recitation. Not to be taken by students who have had Botany or Zoology 351. Marberry. 4 hours. Winter.
351. **Economic Biology.** (Same as Zoology 351). Effects of plants and animals upon the economic welfare of man. Not to be taken by students who have had Botany or Zoology 350. Usually given as extension. Staff. 4 hours.

380. **History of Biology.** (Same as Zoology 380). A short history of the biological sciences from the early Greek philosophers to the present time. Prerequisites, one year of Zoology or Botany. Not to be taken by anyone who has had Zoology 330. Stein. 4 hours. Winter.
390. **Readings in Botany.** A course of individually assigned readings in classical botanical literature; both oral and written reports required; open only to undergraduate students. Prerequisites, a major or minor in Botany. Staff. 4 hours, or the amount of credit earned by the amount of work done. Any term.
403. **Advanced Taxonomy.** An advanced study of any division of the Plant Kingdom, both native and cultivated; particular attention given the grasses and weeds. Prerequisites, 101, 203. Staff. Hours to be arranged up to 5 hours. Any term.
406. **Fungi.** A study of the structure and development of the fungi; attention given to pathological forms, as well as to the other fungi in Southern Illinois. Lecture, laboratory, and field work. Prerequisites, 101, 202, 203, 301. Welch, staff. 5 hours. Spring and Fall.
425. **Advanced Plant Physiology I.** A study of the water relations, mineral nutrients, and colloidal phenomena in plants. Laboratory, lecture, discussion. Prerequisites, 101, 202, 210, 320. Desirable antecedents, courses in Chemistry and Physics. Welch. 5 hours. Spring.
430. **Advanced Plant Physiology II.** A study of photosynthesis, plant pigments, plant foods, enzymes, respiration, growth, and movement. Prerequisites, 101, 202, 210, 320. Desirable antecedents, courses in Chemistry and Physics. Welch. 5 hours. Fall.
470. **Methods in Biology.** (Same as Zoology 470). A study of methods, consisting of consideration of objectives, different types of courses, teaching the scientific method, laboratory method, project method, field methods, measurements, evaluation, and other problems in the teaching of the biological sciences. Lectures, recitations, and readings. Welch and Staff. 4 hours. Winter.
510. **Bio-Ecology.** (Same as Zoology 510). A study of the composition and development of biotic communities, and of the relationships of plants and animals to their environment. Gersbacher. 5 hours. Spring.
520. **Morphology of Economic Plants.** A study of the structure of the organs of plants used in commerce; part of the work on a research basis. Prerequisites, Botany 101, 202, 203, 210. Welch. 4 or 5 hours.
522. **Advanced Histological Technique.** A study in the preparation and presentation of research materials. Prerequisite, approval of the department. Staff. Credit on the basis of work completed.
525. **Cytology.** Microscopical study of protoplasm, including mitosis and meiosis; discussions of cytological behavior in relation to other problems in biology. Prerequisite, approval of the department. Kaeiser. 5 hours.
- 590, 591, 592. **Problems and Introduction to Research.** Assignments involving research and individual problems. Prerequisite, approval of the department. Staff. Credit dependent upon the amount of work done, but no more than nine hours allowed for all three courses.

## CHEMISTRY

Professors Abbott, Neckers (Chairman), Scott, Van Lente; Associate Professor Hadley; Instructor Stone.

A major in Chemistry in the College of Education consists of 36 hours, including Chemistry 111, 112, 113, 221, 231, 232, 341, and 342. A major in the College of Liberal Arts and Sciences requires a minimum of 48 hours, including the above courses plus Chemistry 343, with 461, 462, 463; or 451, 452; or 441 and 471.

### Suggested Curriculum in College of Education

#### Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
German .....	3	German .....	3	German .....	3
Math. 106 or 111.....	4	Math. 112 .....	4	Math. 113 .....	5
Govt. 101 .....	5	Geog. 100 .....	5	Art or Music 100.....	3
P. E. ....	2	P. E. ....	2	P. E. ....	2
	<u>17</u>		<u>17</u>		<u>16</u>

#### Sophomore Year

Chem. 111 .....	5	Chem. 112 .....	5	Chem. 113 .....	5
Math. 251 .....	4	Math. 252 .....	4	Math. ....	4
Physics 106 .....	5	Physics 107 .....	5	Physics 108 .....	5
Eng. 205 or 209.....	3	Educ. 205 .....	4	Speech 101 .....	4
	<u>17</u>		<u>18</u>		<u>18</u>

#### Junior Year

Chem. 221 .....	5	Chem. 232 .....	4	Chem. 231 .....	4
Educ. ....	4	Econ. 205 .....	5	Eng. 300 .....	3
Eng. 211 or 212.....	3	Educ. ....	4	Health Ed. 202.....	4
Physics .....	5	Physics .....	5	Physics .....	5
	<u>17</u>		<u>18</u>		<u>16</u>

#### Senior Year

Bot. or Zool.....	5	Bot. or Zool.....	5	Bot. or Zool.....	5
Chem. 305 or 341.....	4	Chem. 306 or 342.....	4	Educ. ....	4
Educ. ....	4	Hist. 202 .....	5	Physiology .....	4
Student Teaching .....	4	Student Teaching .....	4	Student Teaching .....	4
	<u>17</u>		<u>18</u>		<u>17</u>

The above curriculum should qualify the student to teach Chemistry, Physics, Mathematics, Biology, and General Science.

A student must take 3 hours of Practical Arts and Crafts if he has not had these in high school.

## Suggested Curriculum in Liberal Arts and Sciences

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Chem. 111 .....	5	Chem. 112 .....	5	Chem. 113 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Math. 106 or 111.....	4	Math. 112 .....	4	Math. 113 .....	5
Music or Art.....	3	Bot. or Zool. 101.....	5	Geog. 100 .....	5
P. E. ....	2		17		18
	17				
Sophomore Year					
Chem. 221 .....	5	Chem. 232 .....	4	Chem. 232 .....	4
Math. 251 .....	4	Math. 252 .....	4	Math. ....	4
Physics 106 .....	5	Physics 107 .....	5	Physics 108 .....	5
Health Ed. 202.....	4	Eng. 205 or 209.....	3	Eng. 211 or 212.....	3
	18	P. E. ....	2	P. E. ....	2
			18		18
Junior Year					
Chem. 341 .....	5	Chem. 342 .....	5	Chem. 343 .....	5
Chem. 461 .....	4	Chem. 462 .....	4	Chem. 463 .....	4
Ger. 101 .....	3	Ger. 102 .....	3	Ger. 103 .....	3
Physics 305 .....	5	Physics 306 .....	5	Govt. 101 .....	5
	17		17		17
Senior Year					
Econ. 205 .....	5	Chem. 441 .....	4	Chem. 471 .....	4
Educ. 206 .....	4	Hist. 202 .....	5	Philosophy 300 .....	4
Electives .....	7	Electives .....	7	Electives .....	8
	16		16		16

Electives must include 3 hours of Practical Arts and Crafts if not taken in high school.

**Chemistry Minor:** Chemistry 111, 112, 113, 221, or 232, 305 or 341, and 306 or 342.

**Graduate Work:** At the present time, no graduate major is offered. A graduate minor may be completed in the 400 courses offered by the Chemistry Department.

**Pre-professional Requirements:** *Pre-Medicine:* The College of Medicine of the University of Illinois will accept the following courses as fulfilling their entrance requirements in chemistry: Chemistry 111, 112, 113, 232, 305, 306, and 365.

*Pre-dentistry and Pre-veterinary:* Chemistry 111, 112, 113, 231, 232, 305, and 306 are required by the University of Illinois professional schools.

*Pre-engineering:* Chemistry 111, 112, and 113.

In general, the student planning to obtain a professional degree in another school should conform to the requirements of that particular institution and course.

**101. General Chemistry.** A chemistry survey course for students wishing to satisfy the general education requirement in physical science. Lecture and laboratory. Study made of the general composition of matter, then of valence and specific substances, such as water, oxygen, hydrogen, and other non-metals. 4 hours. Fall, Winter, Spring, and Summer.

**102. General Chemistry.** Lecture and laboratory. Continuation of 101, completing a survey of the non-metals, followed by a study of the metals and of simple organic and biological chemistry. Prerequisite, 101. 4 hours. Winter and Spring.

108. **Inorganic Chemistry.** A course for agricultural students. A study of the composition of matter; the structure of the atom, valence, formulas, and writing of equations; ionization, acids, bases, and salts; pH; the more common non-metals. Four lectures and one 3-hour laboratory period per week. Scott. 5 hours. Fall.
109. **Inorganic Chemistry.** A course for Home Economics students. A study of the composition of matter; the structure of the atom, valence, formulas and writing of equations; ionization, acids, bases, and salts; pH; the more common non-metals and amphoteric elements. Four lectures and one 3-hour laboratory period per week. Scott. 5 hours. Fall.
111. **Inorganic Chemistry.** A course for chemistry majors and minors, pre-medical, pre-dental, pre-engineering, and pre-veterinary major students. Lecture and laboratory. An introduction to the science of chemistry through a study of atomic structure, valence, formulas, simple equations; general properties of gases, liquids, and solids; gram molecular weights of gases; the preparation and properties of oxygen, hydrogen, and water. 5 hours. Fall and Winter.
112. **Inorganic Chemistry.** Lecture and laboratory. A continuation of 111, with the study of solutions, electrolytes, acids, bases, and salts; normal solutions; the chemistry of halogens, sulfur, nitrogen, phosphorus, carbon, silicon, and boron. Prerequisite, 111. 5 hours. Winter and Spring.
113. **Inorganic and Qualitative Chemistry.** Lecture and laboratory. A continuation of 112, including a study of the common metals, their metallurgy, properties, and compounds, as well as their qualitative detection in simple unknowns. Prerequisites, 112. 5 hours. Spring and Summer.
221. **Qualitative Analysis.** Theory and method of the analytical detection of cations and anions. Simple water-soluble, acid-soluble salts, and more complex mixtures, including alloys, analyzed in the laboratory. Prerequisites, Chemistry 113, Mathematics 113. Neckers. 5 hours. Fall.
231. **Quantitative Analysis.** Gravimetric determinations of chloride, iron, sulfate, copper, and limestone in the laboratory; accompanied by calculations and discussion of methods of determination. Prerequisites, Chemistry 221, Mathematics 113. Neckers. 4 hours. Winter and Spring.
232. **Quantitative Analysis.** Volumetric analysis with stoichiometrical accompaniments, including calibration of apparatus, acid-base, permanganate, dichromate, iodometric and precipitation titrations, and a discussion of methods and their application to the various elements. Prerequisites, Chemistry 113, Mathematics 113. Neckers. 4 hours. Winter and Spring.
248. **Inorganic and Organic Chemistry.** A course for agricultural students. A continuation of 108, including a study of the amphoteric elements, the more common metals and alloys, soils and fertilizers (2 hours). Beginning with the sixth week, a study of the chemistry of carbon compounds, including nomenclature and properties of the hydrocarbons and their halogen derivatives, alcohols, ethers, aldehydes, ketones, and acids (3 hours). Four lectures and one 3-hour laboratory period per week. Prerequisite, 108. Scott. 5 hours.
249. **Inorganic and Organic Chemistry.** A course for Home Economics students. A continuation of 109, including a study of the common

metals and alloys (2 hours). Beginning with the sixth week, a study of the chemistry of carbon and its compounds, including nomenclature and properties of the hydrocarbons and halogen derivatives; alcohols and ethers, aldehydes and ketones and acids (3 hours). Four lectures and one 3-hour laboratory period per week. Prerequisite, 109. Scott. 5 hours. Winter.

258. **Organic and Biological Chemistry.** A course for agricultural students. A continuation of 248, including a study of acid derivatives, substituted acids, optical isomerism, amines, amino acids, and proteins; esters and lipids; carbohydrates, heterocyclic and aromatic compounds; enzymes, digestion, and fermentation; vitamins and nutrition; organic fungicides and insecticides. Four lectures and one 3-hour laboratory period per week. Prerequisite, 248. Scott. 5 hours. Spring.
259. **Organic and Biological Chemistry.** A course for Home Economics students. A continuation of the study of organic chemistry begun in 248, including acid derivatives and substituted acids, optical isomerism, amines, amino acids, and proteins; esters and lipids, carbohydrates, heterocyclic and aromatic compounds; enzymes, digestion and fermentation; vitamins and nutrition; dyes. Four lectures and one 3-hour laboratory period per week. Prerequisite, 249. Scott. 5 hours. Spring.
305. **Organic Chemistry.** A course for pre-medical and pre-dental students. A study of the chemistry of the common aliphatic compounds, with particular emphasis upon nomenclature and properties as related to biological processes. 2 hours of lecture and 4 hours of laboratory per week. Prerequisite, 10 hours of inorganic chemistry. Hadley. 4 hours. Fall and Spring.
306. **Organic Chemistry.** A course for pre-medical and pre-dental students. A continuation of 305, including a study of heterocyclic and aromatic compounds; enzymes, digestion, and fermentation; vitamins and hormones. 2 hours of lecture and 4 hours of laboratory per week. Prerequisite, 305. Hadley. 4 hours. Winter and Summer.
341. **Organic Chemistry.** A lecture and laboratory course for the study of the hydrocarbons, alcohols, ethers, ketones, and acids in the aliphatic field. Prerequisite, 113. Abbott. 5 hours. Fall.
342. **Organic Chemistry.** A continuation of 341 through amides, amines, complex acids, stereoisomerism, sugars, starches, and proteins; followed by an introduction to the chemistry of aromatic compounds. Prerequisite, 341. Abbott. 5 hours. Winter.
343. **Organic Chemistry.** A completion of the study of the chemistry of aromatic compounds, begun in 342. Prerequisite, 342. Abbott. 5 hours. Spring.
365. **Physical Chemistry.** A course intended to meet the needs of pre-medical students. A study of gases, liquids, solids, solutions, homogeneous and heterogeneous equilibria; chemical kinetics, measurement of pH, and other phases of electrochemistry in both lecture and laboratory. Prerequisites, 232 and 306 or 342. Van Lente. 5 hours. Summer.
431. **Quantitative Organic Chemistry.** The determination of functional groups and elements commonly found in organic compounds by selected methods of analysis, illustrating general methods of procedure in the field of quantitative organic chemistry. Prerequisites, Chemistry 231, 232, and 343. Hadley. 3 hours. Fall.

- 441. Qualitative Organic Analysis.** A systematic study of the separation and identification of organic compounds by a procedure based on solubility and classification reagents. Prerequisites, Chemistry 221 and 343. Hadley. 4 hours. Winter.
- 451. Biological Chemistry.** A study of proteins, fats, carbohydrates, tissues, digestion, and metabolism, accompanied by appropriate laboratory preparations and analyses of blood, urine, gastric contents, etc. Prerequisites, 305, 343, or registration in 343. Scott. 4 hours. Spring.
- 452. Biological Chemistry.** A continuation of the course of study outlined for the preceding course. Prerequisites, 221 and 451. Scott. 4 hours. Summer.
- 461. Physical Chemistry.** Lecture and laboratory. A study of gases, liquids, solids, solutions, homogeneous and heterogeneous equilibria. Prerequisites, Chemistry 231, 232, and 343, Mathematics 252, Physics 206, 207, and 208. Van Lente. 4 hours. Fall.
- 462. Physical Chemistry.** Lecture and laboratory. A continuation of 461, to include a study of chemical kinetics, electrical conductance, electromotive force, and electrolytic equilibrium. Prerequisites, Chemistry 461, Physics 306. Van Lente. 4 hours. Winter.
- 463. Physical Chemistry.** Lecture and laboratory. A continuation of 462, including chemical thermodynamics, the quantum theory, photochemistry, nuclear structure, atomic structure, and molecular structure. Prerequisite, 462. Van Lente. 4 hours. Spring.
- 471. Industrial Chemistry.** A survey course on modern industrial chemistry, including a study of chemical literature, and an introduction to chemical research processes. Prerequisite, Chemistry 342, and a reading knowledge of German (or French). Hadley. 4 hours. Spring.
- 491, 492, 493. Senior Research.** Chemical research on relatively simple problems, under direction of staff members. Open to senior chemistry majors with at least a "B" average and with approval by the department. Ten hours of laboratory a week. Hadley, Neckers, Van Lente. 3 hours. Fall, Winter, Spring.

## ENGLISH

Professors Schneider (Chairman), Tenney; Associate Professors Barbour, Coleman, Faner, Harris, Neely, Turner, Winn; Assistant Professors Barber, Burns, Camp, Cox, Krappe; Instructor Smith.

An English major is 48 hours, including nine hours of freshman composition and six hours of sophomore literature. The remaining 33 hours should be from courses numbered 300 or above. Various requirements are listed below.

Required for the major:

302, 316, 317, preferably in sequence, and in the junior year.

300, English grammar, required of English majors, and of all who expect to do student teaching.

One year of a foreign language or a successful examination in a foreign language.

At least three courses from the list in the following table, so selected that they fall both in different types and in different periods:

	Poetry	Prose	Drama
Elizabethan			360 366
17th and 18th Century	370	354	361
19th Century	320 321	326 355	
20th Century	305 330	335 308	306 363

**Recommended additional courses:**

318, Survey of American Literature.

485, Problems in the Teaching of English, if the major is in the College of Education.

Philosophy.

History 323, 324, and recent United States History.

Journalism 304, for prospective high school teachers.

Students electing an English major should, as soon as they make their decision, even if they are freshmen at the time, consult the chairman of the English department, to secure help in planning their program well ahead.

An English minor should have at least 24 hours; 12 should be from courses numbered 300 or above; six will normally be from the sophomore literature courses—205, 206, 209, 211, 212; and a maximum of nine may be composition hours, with not more than six from freshman composition.

Persons wishing to be certified to teach in Illinois high schools must have twelve hours of composition credit. Nine of these may be from English 101, 102, 103. Hitherto, the additional three hours were offered by way of English 390, and may still be earned in that course. But the new requirement in the College of Education, that English 300 shall be prerequisite to all student teaching, will automatically give the prospective teacher an extra three hours of credit that can be counted as composition.

**101. Freshman Composition.** A course requiring weekly writing practice, mostly expository, the student using chiefly his own ideas and materials, and aiming at the development of skill in organizing and arranging these ideas and materials; emphasis upon unity and coherence in the whole composition; an acquaintance with the library; an amount of directed reading; studies of the structure of the sentence; and conferences on written work. 3 hours.

English 101, 102, and 103 are required of all students who wish to take a degree. The courses should be taken in order, and should be registered for, every quarter, until the requirement of nine hours is fulfilled.

**102. Freshman Composition.** Writing practice continued; emphasis at the outset concentrated on effective organization as applied to the individual paragraph and to consecutive paragraphs; experience in library use continued, and materials for composition occasionally taken from library sources. Conferences, sentence study, and reading continued; punctuation study added. 3 hours.

**103. Freshman Composition.** Writing practice continued, in papers of greater length than those of 102; some of these involving further training in library use; others providing training in description and narration, and giving occasion for studying the somewhat advanced problems of diction, appropriateness of tone, and originality of treatment. Reading and conferences as in preceding courses. 3 hours.

205. **Introduction to Poetry.** Emphasis on technique, type, and period. 3 hours.
206. **Introduction to Drama.** An examination of the form, artistry, and ideas of various plays from most of the notable literary periods. Approximately twenty plays read. 3 hours.
209. **Readings in the Literature of Continental Europe.** An examination of masterpieces of various national literatures in various periods. 3 hours.
211. **Introduction to Fiction.** An examination of readable novels, designed to acquaint the student with the important aspects of artistic excellence in this form. 3 hours.
212. **Readings in Modern Literature.** Principal forms, ideas, and writers of contemporary America and England; occasional excursions into the literature of other countries; emphasis on the manner in which modern literature touches upon the many problems of Twentieth Century life. Especially recommended to majors in other fields than English. 3 hours.
290. **Creative Writing.** Prerequisite, consent of the instructor. 3 hours.
300. **Principles and Teaching of English Grammar.** Required of majors in the College of Education. 3 hours.
301. **Introduction to Semantics.** A study of the nature of language, and of the emotional as well as of the intellectual content; an attempt to break down linguistic naivete and to develop a consciousness of the motives that underlie the uses of language. 3 hours.
302. **A Survey of English Literature from the beginning to 1550.** Required of majors. 3 hours.
303. **Development of the English Language.** An outline study of the place of English in the family of European languages, and of the development of Anglo-Saxon and Middle English into Modern English. Knowledge of German a desirable preparation for this course. 3 hours.
305. **American Poetry.** 4 hours.
306. **American Drama.** Rise of the theatre in America; a survey of the drama of the early period; and intensive reading of contemporary plays. 4 hours.
308. **American Novel.** Emphasis on the works of Hawthorne, Melville, Crane, Lewis, and Cather. 4 hours.
312. **Folklore.** A study of the types of folklore, supplemented by wide reading in the field. Students expected to collect and classify examples from local lore. Basic text: *The Folktale* by Stith Thompson. 3 hours.
314. **Ideas in Seventeenth Century Literature.** Religious, scientific, political, and aesthetic trends in Seventeenth Century literature. 4 hours.
315. **Eighteenth Century Literature.** Neo-classicism and the genesis of the Romantic movement in poetry; in prose, selected masterpieces, with emphasis on the satirical and critical essay. 4 hours.
316. **A Survey of English Literature from 1550 to 1750.** Required of majors. Credit for 316 not given to students who already have credit for 201. 3 hours.
317. **A Survey of English Literature from 1750 to 1900.** Required of majors. Credit for 317 not given to students who already have credit for 202. 3 hours.

318. **A Survey of American Literature.** 4 hours.
320. **English Romantic Poetry, 1780 to 1830.** A survey of Romantic poetry, with emphasis on the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats. 4 hours.
321. **Victorian Poetry, 1830 to 1880.** A survey of Victorian poetry, with intensive study of Tennyson, Browning, and Arnold. 4 hours.
326. **Nineteenth Century Prose.** Representative writings of England's great prose age and, exclusive of fiction, their relationship to Nineteenth Century life and thought. 4 hours.
330. **Modern British Poetry.** The tendencies in British poetry from 1880 to the present. 4 hours.
335. **The Short Story.** A comparative study of the growth of the short story as a literary form. 4 hours.
354. **Development of the English Novel.** Representative novels from Defoe through Scott. 4 hours.
355. **The Victorian Novel.** The work of the major English novelists from Dickens to Hardy. 4 hours.
356. **The Novel Since 1900.** The work of novelists of various nations. Especially recommended for students not majoring in English. 4 hours.
360. **English Drama to 1642.** Representative plays showing the development of the drama from its English beginnings to 1642. 4 hours.
361. **Restoration and Eighteenth Century Drama.** Intensive reading of plays and special reports. 4 hours.
362. **The Development of Tragic Drama from Aeschylus to the Present Time.** Principal tragic dramas and the shifting conceptions of tragic form and matter in the following ages: Ancient Greek, Roman, Renaissance, French Classical, Restoration, Eighteenth and early Nineteenth Centuries, and the contemporary. 4 hours.
363. **Modern British Drama.** A survey of the drama since 1880, with intensive study of the most important plays after Ibsen. 4 hours.
365. **Shakespeare.** Emphasis on the reading of the chief comedies, with supplementary background and biographical study. 4 hours.
366. **Shakespeare.** A study of the chief tragedies, with extensive supplementary readings. 4 hours.
369. **Introduction to Literary Criticism.** The study, appreciation, and criticism of literature and literary techniques. 4 hours.
370. **Milton.** The poetry of Milton, with emphasis on the forms, influences, and ethical values. 4 hours.
377. **Comparative Literature, Twentieth Century.** Readings in fiction, poetry, and drama of the Twentieth Century, chiefly from the literatures of continental Europe—France, Germany, Scandinavia, Russia, etc. 4 hours.
378. **Comparative Literature to the Renaissance.** A background, through lectures, for the appreciation of early European literature, with special emphasis on the classics of Greece and Rome; readings selected from translations of the works of Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Vergil, Terence, Dante, and others. 4 hours.

- 379. Comparative Literature from the Time of the Renaissance to 1900.** Recent literature—other than English and American—in translations of the works of Rabelais, Cervantes, Voltaire, Rousseau, Goethe, Heine, Turgenev, Dostoyevsky, and others. 4 hours.
- 390. Advanced Composition.** Expository writing, for the student to work at ideas and types of writing of special interest to him. 3 hours.
- 392. Advanced Composition: Creative Writing.** Practice in writing narrative, poetic, and other art forms, with study of contemporary models. 4 hours.
- 402. Chaucer.** A study of the works of Chaucer, with attention to their form and content, the poet's literary relationships, his role as social commentator, his Middle English language, and other aspects. 4 hours.
- 405. American Poetry.** A study of the works of a selected list of representative American poets from Bryant to Frost. 4 hours.
- 424. English Renaissance.** A consideration of the expansion of learning of the age, as it is reflected in literature; of the poetic form and content; and of the development of prose from formlessness to artistry. 4 hours.
- 431. The Eighteen-Nineties.** Studies in authors of the 1890's, English and American, course emphasizing one author one quarter, another author another quarter. 4 hours.
- 464. Modern Continental Drama.** A survey of the continental drama of Europe since 1870; with intensive study of representative plays of Scandinavia, Russia, Germany, France, Italy, Spain, and Portugal; and with attention to movements toward romanticism, realism, expressionism, naturalism, etc. 4 hours.
- 469. The Criticism of Literature.** Studies of the chief critics of the past, and of current critical attitudes, with some practice in the writing of criticism. 4 hours.
- 485. Problems in the Teaching of English.** Studies in the aims, methods, materials, tests, programs, and other aspects of English instruction in the high school; emphasis on literature or on composition, as the special interest of the class may dictate. 4 hours.
- 500. Materials and Methods of Research in English.** 2 hours.
- 501-505. Individual American Writers.** Each course the intensive study of an American author; ideas and artistry and their sources considered, as well as national qualities and influence on succeeding generations; critical papers and research reports required of all students. In various terms, such authors as Poe, Emerson, Melville, Whitman, and Mark Twain studied. 4 hours.
- 508. The Rise of Realism in American Fiction.** Extensive reading in American literature after the Civil War; local color, early realists, major realistic novelists, and early naturalists. 4 hours.
- 514. Problems in Seventeenth Century Literature.** Studies in the development of forms and ideas in Seventeenth Century literature. 4 hours.
- 515. Dr. Johnson and His Circle.** A study of personalities, critical attitudes, philosophical and political concepts, manners and customs of the Eighteenth Century, with special attention to the development of romanticism. 4 hours.
- 522. Robert Browning.** Extensive reading in Browning's poetry; study of his life and times; of the scholarship relating to him; and of the critical opinions that have been passed upon him. 4 hours.

554. **Eighteenth Century Novels.** A course seeking to discover the origins of the novel and its relation to other types of literature, to follow the development of the novel through the Eighteenth Century, and to study the early novel as an art form and a social instrument. 4 hours.
560. **English Drama to 1550.** A study of the evolution, forms, and content of the English drama during this period. 4 hours.
562. **The Development of the Tragic Drama, from Aeschylus to the Present Time.** A study of the tragic drama, and of the changing conceptions of the form and idea of tragedy through the ages. 4 hours.
566. **Shakespeare.** A review of the works of Shakespeare, together with extensive work in the scholarship that has accumulated on the subject, with emphasis upon the times of Shakespeare, his sources, language, versification, and other problems. 3 or 4 hours.

## FOREIGN LANGUAGES

Professor Peacock (Chairman); Associate Professors Barry, Davis, Hartwig; Assistant Professors Neufeld, Smith; Instructor Stahlheber.

For a major in a language, a student in the College of Education must complete 36 hours; a student in the College of Liberal Arts and Sciences, 42 hours, exclusive of 101, 102, and 103. A 48-hour major is available for either college. At least one English and one History course numbered 300 or above should supplement the language major.

A minor consists of 24 hours of the language, exclusive of 101, 102, and 103.

101 and 102 will not be counted as electives toward graduation for any student unless 103 is also completed.

### Suggested Curriculum in the College of Education

#### Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
For. Lang. ....	4	For. Lang. ....	4	For. Lang. ....	4
Eng. 101 ....	3	Eng. 102 ....	3	Eng. 103 ....	3
Chem. or Physics...	4-5	Chem. or Math....	4	Math. or Physics...	4-5
History ....	5	Sociology ....	5	Govt. ....	5
P. E. ....	1	P. E. ....	1	P. E. ....	1
	17-18		17		17-18

#### Sophomore Year

For. Lang. ....	2	For. Lang. ....	3	For. Lang. ....	3
Bus. 102 ....	3	Bot. or Zoo.....	5	Art or Music.....	3
Econ. or Geog.....	5	Eng. 212 ....	3	Health Ed. ....	4
Eng. 209 ....	3	P. E. ....	1	P. E. ....	1
P. E. ....	1	Electives ....	4	Electives ....	5
	15		16		16

#### Junior Year

For. Lang. ....	4	For. Lang. ....	9	For. Lang. ....	4
Educ. 205 ....	4	Educ. 305 ....	4	Educ. 315 ....	4
Eng. 390 or.....	3	History ....	3	English ....	4
Speech ....	4			Electives ....	4
Electives ....	6		16		16
	17-18				

#### Senior Year

For. Lang. ....	4	For. Lang. ....	3	For. Lang. ....	3
Educ. 331 ....	4	Stud. Tchg. ....	12	Educ. 310 ....	4
Electives ....	8		15	Electives ....	8
	16				15

Students who offer high school work in the foreign language for college entrance will not need to take the 12 hours listed in the first year and can apply that time on the two academic minors required by the College of Education. Minors of 24 hours to accompany a foreign language major are accepted from any academic field.

The curriculum for foreign language majors in the College of Liberal Arts and Sciences follows the above schedule except for the following:

1. Six hours of additional work in the major field are required.
2. The 32 hours allotted to Education and Student Teaching not required in the College of Liberal Arts and Sciences may be applied to the development of a 48-hour major or to a minor field.
3. Four hours of psychology or philosophy must be included.

Graduate majors and minors are offered in French and Spanish for the degrees of Master of Arts, Master of Science, and Master of Science in Education. Similar majors and minors in German and Latin will be offered on demand.

### French

- 101, 102, 103. Elementary Course.** Grammar; pronunciation; composition; conversation; reading of modern prose. 101 open to students who have had no previous work in French. Prerequisite for 102, 101, or one year of high school French. 3 hours each.
- 101c, 102c, 103c. French Conversation.** Courses in conversation and oral drill taken with French 101, 102, 103, by students who wish additional oral training; elected only by students enrolled in the corresponding beginning sections. 1 hour each.
- 151, 152, 153. Intermediate Composition and Reading.** Grammar; composition; oral practice; rapid reading on modern authors. Prerequisites, 103, or two years of high school French. 3 hours each.
- 201, 202, 203. Survey of French Literature.** A study of the important currents of French literature from the beginning to the present time. Outside reading reports. One hour each week devoted to French composition. Prerequisite, 153. 4 hours each.
- 220. French Conversation.** Conversation based largely on topics of current interest chosen from French newspapers and reviews. Prerequisite, 151, or three years of high school French. 2 hours.
- 301. The French Novel of the Eighteenth and Nineteenth Centuries.** Lectures, collateral reading, and reports. Prerequisite, 203. 3 hours.
- 302. Seventeenth and Eighteenth Century Drama.** Intensive study of Corneille, Racine, Molière, Lesage, Voltaire, Marivaux, and Beaumarchais. Outside reading of minor dramatics. Prerequisite, 203. 3 hours.
- 303. French Lyric Poetry.** French versification; Romantic, Parnassian, and Symbolist schools; contemporary poets. Weekly reports on outside reading. Prerequisite, 203. 3 hours.
- 304. French Contemporary Novel.** Study of the novel from 1889 to the present, with emphasis on the symbolistic, regional, psychological, and sociological novels. Detailed study of Proust or Gide. Prerequisite, 203. 3 hours.
- 305. French Contemporary Drama.** Study of French Drama from Dumas *fils* to the present, with emphasis on the *pièce à thèse*, the *théâtre libre*, symbolistic drama, and the drama of modern social problems. Prerequisite, 203. 3 hours.

340. **French Literature of the Sixteenth Century.** Rabelais, Montaigne, the memoir writers, Marot, the Pleiade, and d'Aubigny. Prerequisite, 203. 2 hours.
351. **Advanced Composition.** Rapid grammar review; study of idiomatic construction; weekly themes. Course conducted in French. Prerequisite, 203. 4 hours.
352. **French Conversation and Phonetics.** A thorough study of the phonetic alphabet and of the formation of French sounds. Course conducted in French. Prerequisite, 203. 5 hours.
353. **Advanced Composition and Conversation.** Oral and written composition of a practical nature for advanced students; intensive study of idiomatic expression and current usage. Prerequisites, 351 and 352. 4 hours.
440. **French Poetry of the Renaissance.** A study of the development of French poetry from 1550 to 1600. 2 hours.
500. **Seminar in Contemporary French Literature.** Intensive study of the "roman fleuve" as exemplified in the works of Duhamel, Martin du Gard, and Romain Rolland. 2 hours.
501. **Seminar on a Selected French Author.** Intensive study of one author—his life, his work, and his place in the literary and cultural developments of civilization. 2 hours.
509. **French Literature from 1800 to 1850.** A study of Romanticism in French Literature and its relation to the general European Romantic movement. 4 hours.
510. **French Literature from 1850 to 1900.** 4 hours.
511. **Twentieth Century French Drama.** A study of French drama from 1900 to the present. 3 hours.
520. **Graduate Composition and Diction.** Composition based on study of contemporary French authors; individual work in pronunciation and diction to be determined by entrance tests. 4 hours.

### German

- 101, 102, 103. **Elementary Course.** Pronunciation; grammar; conversation; composition; class and collateral reading. 101 open to students who have had no previous work in German; 102 open to those who have had 101, or one year of high school German. 3 hours each.
- 101c, 102c, 103c. **German Conversation.** These courses in conversation and oral drill taken with German 101, 102, 103, by students who wish additional oral training; elected only by students enrolled in the corresponding beginning sections. 1 hour each.
- 151, 152, 153. **Intermediate Course.** Grammar review and expansion; reading in modern prose; conversation and composition. Two periods a week devoted to literature, and one to grammar and composition. Prerequisite, 103, or two years of high school German. 3 hours each.
- 201, 202. **Introduction to German Classical Literature.** Lessing, Goethe, Schiller; reading and discussion of representative works. One hour a week devoted to German composition. Courses conducted in German if preferred. 4 hours each.
203. **German Drama in the Nineteenth Century.** Kleist, Grillparzer, Hebbel; reading and discussion of representative works. One hour devoted to German composition. Course conducted in German. 4 hours.

251. **Scientific German.** Study of vocabulary and sentence constructions as found in the German readings on popular sciences. Prerequisite, 152 or equivalent. 4 hours.
- 301, 302. **Survey of German Literature to 1800.** The historical development of German literature; lectures; reading of representative authors; discussion; themes. Courses conducted in German. 4 hours each.
303. **German Novelle in the Nineteenth Century.** A study of representative works from 1826 to 1890, with emphasis on the literary movements of that time. Prerequisite, 202. 4 hours.
304. **Aufsätze and Sprechübungen.** Advanced composition and conversation. Required for prospective teachers of German. 5 hours.

### Greek

- 101, 102, 103. **Elementary Course.** Grammar emphasized in the first quarter, and reading of an actual text begun in the second. The text selected, usually the New Testament. 4 hours each.

### Latin

- 101, 102, 103. **Elementary Course.** Grammar, composition, reading of simple prose; English derivatives and cognates stressed. 101 open to students who have had no previous work in Latin. Prerequisite for 102, 101, or one year of high school Latin. 3 hours each.
151. **Advanced Composition.** Useful for teachers and a convenient review for students. Prerequisite, 103, or two years of high school Latin. 4 hours.
152. **Cicero's Essays.** De Senectute and part of De Amicitia. Prerequisite as for 151. 4 hours.
153. **Livy.** Books I and XXI. Prerequisite as for 151. 4 hours.
201. **Phormio of Terence.** Prerequisite, 153, or equivalent. 4 hours.
202. **Horace's Odes and Epodes.** Prerequisite, 153, or equivalent.
203. **Letters of Pliny.** Prerequisite, 153, or equivalent. 4 hours.
301. **Cicero's Letters.** Emphasis laid upon the history of the times and the personality of Cicero. Prerequisite, 203, or equivalent. 4 hours.
302. **Vergil's Eclogues and Georgics.** Hexameter carefully studied; Vergil's spirit and contribution to Rome considered. Prerequisite as for 301. 4 hours.
303. **Tacitus.** The Agricola and Germania. Prerequisite as for 301. 4 hours.
- 304a, 304b. **Private Life of the Romans.** Two courses comprising a personal study of the average family; housing, food, and clothing; marriage, education, amusements, slaves, and freedom; means of livelihood; death and burial. Open to all students, whether they have had Latin or not; either course may be taken separately. 304a, 304b. 2 hours.

The following courses are given in the summer, the selection being rotated to suit the needs of the students:

125. **Selections from Historians.** 4 hours.
126. **Ovid's Metamorphoses.** 4 hours.

127. **Orations of Cicero.** Supplementary to high school work. 4 hours.
335. **Vergil's Aeneid.** Books VII-XII. 4 hours.
341. **The Teaching of Latin.** A discussion and training course for teachers. 4 hours.
342. **Advanced Composition.** A careful study based on classic prose-writers. 4 hours.

### Portuguese

100. **Introductory Course.** Especially for Spanish majors and minors; open to students who have completed Spanish 153, and to others by consent of the instructor. 5 hours.

### Russian

- 101, 102, 103. **Elementary Course.** Pronunciation; outlines of declensions and conjugations; reading of elementary texts; selection of basic roots; analysis of prefixation and suffixation; oral practice; composition. 3 hours each.
- 101c, 102c, 103c. **Russian Conversation.** These courses in conversation and oral drill taken with Russian 101, 102, 103, by students who wish additional oral training; elected only by students enrolled in the corresponding beginning section. 1 hour each.
- 151, 152, 153. **Intermediate Course.** Reading of selections from Russian literature; advanced conversation and composition. 3 hours each.
- 203, 210, 212. **Survey of Modern Russian Literature.** Reading of works of Gogol, Lermontov, Tolstoy, Dostoyevsky, Chekhov, Pushkin. 4 hours each.

### Spanish

- 101, 102, 103. **Elementary Course.** Grammar; pronunciation; composition; conversation; reading of simple prose. 101 open to students who have had no previous work in Spanish. Prerequisite for 102, 101, or one year of high school Spanish. 3 hours each.
- 101c, 102c, 103c. **Spanish Conversation.** Courses in conversation and oral drill to be taken with Spanish 101, 102, or 103, by students who wish additional oral training; elected only by students enrolled in the corresponding beginning sections. 1 hour each.
- 151, 152, 153. **Intermediate Composition and Reading.** Grammar review, composition, oral practice, rapid reading of modern authors. Prerequisite, 103, or two years of high school Spanish. 3 hours each.
- 201, 202, 203. **Survey of Spanish Literature.** A survey, continuing down to the present day. Lectures and reading of representative authors. Composition one day a week. Prerequisite, 153. 4 hours each.
- 220, 221, 222. **Spanish Conversation.** Conversation based on topics of current interest; extensive use of records for comparison and imitation. 2 hours each.
301. **Spanish Novel of the 19th and 20th Centuries.** Study of representative novels and authors from the Regionalists to the present time. Prerequisite, 203. 3 hours.

302. **Spanish Drama of the 18th and 19th Centuries.** Reading of selected plays of the chief dramatists from Moratin to the generation of 1898. Prerequisite, 203. 3 hours.
315. **Arte y Cultura.** Conducted in Spanish. Informal class discussions of reports by students on present day topics relating to the life and interests of Latin America and Spain; extensive use of films. Prerequisites, 220, or consent of instructor. 3 hours.
333. **Spanish American Literature.** Survey of Spanish literature in America from the conquest to modern times. Required of Spanish majors. Prerequisite, 203, or consent of instructor. 3 hours.
340. **The Golden Age (The Dramatists).** Extensive individual reading of the plays of Lope de Vega, Calderon, Tirso, Ruiz de Alarcon, and others, with class reports and intensive study of some one dramatist. Prerequisite, 203, or consent of instructor. 3 hours.
345. **Cervantes.** Study of the life of the author and of the *Quijote*, with reference to style and source of materials. Comparative reports on the *novelas* and other works. Prerequisite, 203, or consent of instructor. 4 hours.
351. **Advanced Composition.** Daily themes based on Spanish models, with free composition once a week. Class discussions. Prerequisite, 203. 3 hours.
415. **Spanish Phonetics.** Analysis of the sounds of Spanish, their manner of production, and special drill in connected passages of prose and poetry. 3 hours.
500. **Seminar in Latin American Literature.** Intensive study of the modern novel in Latin America as an expression of social and cultural movements. Outside readings and class discussions. 2 hours.
501. **Seminar on a Selected Spanish Author.** Intensive study of one author, his life, his works, and his relationships to the literary and social currents of his time. 2 hours.
505. **The Picaresque Novel.** Class study of the *Lazarillo*, and collateral readings of other masterpieces of this *genre*. 3 hours.
506. **The Renaissance.** A study of the literature of the Renaissance in Spain, including the drama, the novel, the lyric poetry, and the histories of the Indies. 3 hours.
520. **Composicion y Gramatica.** Free composition, based upon analysis of the style of contemporary Spanish authors, with special reference to grammatical constructions. Special projects in grammar undertaken. 4 hours.
525. **The Spanish Ballads.** The romance studied as part of the literature and folklore of Spain and the New World. 3 hours.
530. **Latin American Poetry.** Study of the modern trends in the poetry of Latin America as a whole, with emphasis on its international aspect and its relation to other literary forms. Prerequisite, 333, or consent of instructor. 3 hours.

### Romance Philology

410. **Romance Philology.** A survey of the phonology, morphology, and syntax changes in Romance languages in general; special attention to developments in French and Spanish for majors in these fields. 4 hours.

514. **Romance Philology.** Studies in syntax of Old French and Old Spanish, with special problems in the field of the student's major interest. 4 hours.
515. **Readings in Romance.** Selected readings in the literature of Old French and Old Spanish, with emphasis upon the student's major field. Prerequisite, Romance Philology 410, or equivalent. 4 hours.
516. **Arthurian Romance.** Intensive readings in the Arthurian Romances in the field of the student's major interest (French or Spanish) with reference to the *genre* as a whole. Prerequisite, Romance Philology 410, or equivalent. 4 hours.

## GEOGRAPHY AND GEOLOGY

Associate Professor Cunningham (Chairman), Shank; Assistant Professors Krause, Price.

A student interested may take his major work in the field of geography in either the College of Education or the College of Liberal Arts and Sciences, depending upon his objective:

1. In the College of Education, for preparation to teach geography in the elementary or secondary schools, or (with further preparation) in the junior college; or as a part of preparation to teach either social science or physical science in the elementary or secondary schools.
2. In the College of Liberal Arts and Sciences, for a thorough knowledge of geography in preparation for civil service appointment as geographer, or for meeting the demands of private organizations requiring the services of geographers.

In the College of Liberal Arts and Sciences, the student majoring in Geography needs to present a minor in another field. Forty-two hours of Geography are required for a major; twenty-four hours are required for a minor.

In the College of Education, forty-eight hours of Geography are required for a major if the student offers only one minor; only thirty-six hours are required for the major if he offers two minors. Twenty-four hours are required for a minor.

One year of foreign language will be required of all Geography majors enrolled in the College of Education.

Persons who expect to teach in the elementary school are urged to take at least a minor in Geography, which must include Geography 100 and 101.

Those expecting to teach Commercial or Economic Geography in high school with a medium preparation must have twelve quarter hours of College Geography. Students should meet this requirement by taking Geography 100, 201, 324, and 405.

Those expecting to teach Physical Geography in high school with a medium preparation must have eighteen quarter hours in college Physical Geography. Students should meet this requirement by taking Geography 101, 220, 310, and any other physical geography subject (see list below).

Classification of Geography courses:

Physical: 101, 201, 220, 221, 222, 303, 306, 310, 311, 331, 406, 407, 430.

Social: 100, 210, 210B, 312, 317, 319, 324, 328, 345, 405, 408, 409, 424, 460.

State, Regional, or Continental: 313, 314, 315, 316, 318, 320, 321, 401, 402.

Educational: 341, 423.

Geography 100, 101, and 210 are required of all Geography majors and minors.

## Suggested Curriculum in College of Education

### Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Geog. 100 .....	5	Geog. 101 .....	5	Govt. 101 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Math. 106 .....	4	Math. 107 .....	4	Chem. or Physics	
P. E. ....	1-2	Art 120 .....	3	101 .....	4
Electives .....	3	P. E. ....	1-2	Health Ed. 202....	4
	<u>16-17</u>		<u>16-17</u>	P. E. ....	1-2
					<u>17-18</u>

### Sophomore Year

Educ. 205 .....	4	Geog. 210 .....	4	Geog. Electives ....	3
Foreign Language..	3	Foreign Language..	3	Foreign Language..	3
Hist. 201 or 202....	5	Economics .....	5	Soc. 101 .....	5
Eng. 205, 206, 209,		Eng. 205, 206, 209,		Bot. 101, 202 or	
211 or 212....	3	211 or 212....	3	Zool. 101 or 105..	5
P. E. (Women)....	1	P. E. (Women)....	1	P. E. (Women)....	1
	<u>15-16</u>		<u>15-16</u>		<u>16-17</u>

### Junior Year

Geog. 314 .....	4	Geog. 315 .....	4	Geog. 324 .....	4
Educ. 305 .....	4	Educ. 310 .....	4	Educ. 315 .....	4
Electives .....	8	Agric. 204 .....	5	Electives .....	8
	<u>16</u>	Eng. 300 .....	3		<u>16</u>
			<u>16</u>		

### Senior Year

Geog. 319 .....	4	Geog. 460 .....	2	Geog. Electives....	4
Educ. 331 .....	4	Geog. Electives....	2	Student Teaching...	4
Student Teaching...	4	Student Teaching...	4	Electives .....	8
Electives .....	4	Electives .....	8		<u>16</u>
	<u>16</u>		<u>16</u>		

The above schedule is based on a minimum of 36 hours for a major in Geography. Electives should be chosen in such way that a student will have a minor of 24 hours in a field outside the social studies.

## Suggested Curriculum in College of Liberal Arts and Sciences

### Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Geog. 100 .....	5	Geog. 101 .....	5	Govt. 101 or 231....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Math. 106 or		Chem. 101 .....	4	Chem. 102 .....	4
Physics 101 .....	4	P. E. ....	1-2	Health Ed. 202....	4
Art 120 or			<u>13-14</u>	P. E. ....	1-2
Music 100 .....	3				<u>17-18</u>
P. E. ....	1-2				
	<u>16-17</u>				

### Sophomore Year

Hist. 201 or 202....	5	Geog. 210 .....	4	Geog. Electives ....	4
Foreign Language..	3	Foreign Language..	3	Foreign Language..	3
Eng. 205, 206, 209,		Eng. 205, 206, 209,		Econ. 205 .....	5
211 or 212....	3	211 or 212....	3	Soc. 101 .....	5
Bot. 101, 202 or		Agric. 204 .....	5	P. E. (Women)....	1
Zool. 101, 105....	5	P. E. (Women)....	1		<u>17-18</u>
P. E. (Women)....	1		<u>15-16</u>		
	<u>16-17</u>				

### Junior Year

Geog. Electives....	4	Geog. Electives....	4	Geog. Electives....	4
Educ. 206 or		Electives .....	12	Electives .....	12
Phil. 316 .....	4		<u>16</u>		<u>16</u>
Electives .....	8				
	<u>16</u>				

## Senior Year

Geog. Electives..... 4  
Electives .....12  
16

Geog. 460 ..... 2  
Geog. Electives..... 2  
Electives .....12  
16

Geog. Electives..... 4  
Electives .....12  
16

The above schedule is based on a minimum of 42 hours for a major in Geography. Electives should be chosen in such way that a minimum of at least 24 hours is completed in one subject.

- 100. Global Geography.** A survey of the physical and cultural patterns of the world and their interrelationships. Satisfies the geography requirements in the College of Liberal Arts and Sciences. 5 hours.
- 101 (205). Physical Geography.** For students who plan to teach nature study, natural science, social science, general science, or geography. Units on landforms, soil, waterbodies, minerals, native plant life, native animal life, direction and distance, and the universe. Interpretation of these physical phenomena as to their influence upon each other and upon the four geographical cultural factors; illustration of a great variety of visual education methods. One major field trip required. Prerequisite, Geography 100. 5 hours.
- 201. Soil Geology.** A study of the genesis of soils. Includes a study of rocks and rock-forming minerals, the basic principles of rock weathering and erosion, the effects of climate and parent material on soil formation, and the origin and functions of soil colloids. Designed for agriculture majors and others especially interested in soil-forming processes. 4 hours.
- 210. Economic Geography.** A study of the world distribution of types of activity and industries, such as hunting, fishing, lumbering, grazing, farming, mining, manufacturing, transportation, and trade. Prerequisites, Geography 100 or 101. 4 hours.
- 210B. Economic Geography.** Similar to Geography 210 except beginning with a survey of the physical elements of the environment before making a study of the world distribution of types of activities and industries. Open only to students majoring in Business Administration; not open to students who have had Geography 100, except under certain conditions approved by the Chairman of the Department, and then only for four hours of credit. 5 hours.
- 220 (300). Physical Geology.** The materials composing the earth and the agencies and processes involved in the present physical condition of the earth's surface. Stress of practical problems that man must face in the use of the earth, such as cultivation, construction, and drainage. Laboratory and field work required. 5 hours.
- 221 (302). Historical Geology.** Presents in chronological order the procession of physical and biotic changes through which the earth has passed. Includes not only the physical history of the earth, but the evolution of life forms as evidenced by fossil records. Prerequisite, Geology 220, or permission of the instructor. An elementary course in Zoology or Botany also recommended for preparation. 5 hours.
- 222. Minerals and Rocks.** A course designed to acquaint students with the more important minerals and rocks, for the purpose of developing an appreciation of both as they have helped to shape the economic development of regions or political units. Prerequisites, Geology 220 and 221. 5 hours.
- 303. Economic Geology.** Study of the world's mineral resources, their geologic origins, their world distribution, the methods of production

and processing, and the economic problems resulting from their utilization. Prerequisite, Geology 220. 4 hours.

306. **Map and Aerial Photo Reading.** Teaches students the source and use of military and civilian maps, charts, graphs, and aerial photographs. Laboratory and field work required. Prerequisite, Geography 100. 3 or 4 hours.
310. **Meteorology.** Study of weather conditions in detail, as to their origin, their changes, the factors and laws influencing them, and their influence upon man. Emphasis placed equally upon the theoretical side and upon subject matter which will be practical to aviators, farmers, and urban dwellers. Prerequisite, Geography 100. 4 hours.
311. **The Geography of Soils.** Study of the world-wide distribution of soils, with particular emphasis upon those of the United States. Stress placed upon the reasons for the major soil types. Course concluding with a study of the agricultural pattern as it relates to the various groups of soils, and with the many problems related to the use, misuse, and abuse of the soils. Prerequisite, Geography 100. 4 hours.
312. **Ecological Crop Geography.** The ecological phases of crop production and distribution. Course dealing specifically with (a) the social environment of crop plants, (b) a generalized study of the physiological environment, (c) the separate ecological factors of moisture, water, temperature, light, soil, and air, (d) the actual geographical distribution of crop plants. Prerequisite, Geography 100. 5 hours.
313. **Geography of Illinois.** Intensive regional study of Illinois and of contiguous areas outside the State where geography is closely related to that of Illinois. Prerequisites, Geography 100 and 101. 3 hours.
314. **Geography of Anglo-America.** A systematic regional treatment of North America, north of Mexico. Special emphasis given to a study of man's adjustment to his natural environment and to economic, political, and cultural problems. Prerequisite, Geography 100. 4 hours.
315. **Geography of Europe.** An intensive study of regions of Europe with stress upon the description, interpretation, utilization, and interdependence of these regions. Consideration of present and possible future significance of the continent. Prerequisite, Geography 100. 4 hours.
316. **Geography of Latin America.** A study of the regions and resources of the Latin American countries as they relate to national and international problems. Prerequisite, Geography 100. 4 hours.
317. **Economic History of the United States.** (Economics 317.) An economic analysis of our colonial development, of the westward movement, of the industrialization, and of the emergence of the United States as a world power. The historical background of the economic problems of agriculture, transportation, banking, manufacturing, and labor stressed. Prerequisite, Economics 205 and 206. 3 hours.
318. **Geography of Asia.** Life conditions and economic development as influenced by location, climate, relief, size, shape, and other natural conditions. Prerequisite, Geography 100. 4 hours.
319. **Historical Geography of the United States.** A study of geographic influences upon the discovery, exploration, settlement, and development of the United States. Emphasis placed upon the physical setting, the western migrations, and the adjustments and maladjustments of American society to earth conditions and resources. Prerequisites, Geography 100 and 101. 4 hours.

- 320. Geography of Africa.** Life conditions as influenced by location, relief, climate, soils, and minerals; the vast mineral resources and the rapid development of South Africa; the ascendancy of European influence in Africa. Prerequisite, Geography 100. 4 hours.
- 321. Australia.** A study of the only continent which lies wholly in the Southern Hemisphere; its unusual climatic and economic conditions; its importance in the British Empire; and its vital place in the economic and political life of the Pacific. Prerequisite, Geography 100. 2 hours.
- 324 (325). Restoration and Conservation of Natural Resources.** (Economics or Sociology 324.) A course including a survey of the major resources of the United States, the history of their exploration, and their influence on the development of the nation; the problems of their conservation and restoration, especially water, mineral, forest, grass, soil, and wildlife resources. State and national Resource Planning Boards reports used. Prerequisite, Geography 100. 4 hours.
- 328. International Trade.** (Economics 328.) A study of present-day problems of international economic relations against a background of history, economic theory, and factual information about the world's population, its resources, and its industries. Emphasis given to the position of the United States in world economy. Prerequisites, Economics 205 and 206. 3 hours.
- 331. Principles of Geomorphology.** A course dealing clearly with the fundamental principles of geomorphology; giving precise definitions; and describing and illustrating land forms in an interesting and effective way. Emphasis placed upon the composition and structure of the rocks of the earth as well as upon the processes of weathering, erosion, diastrophism, and volcanism that singly or together change the land surface. Prerequisites, Geography 100 and 101. 4 hours.
- 341. The Teaching of Geography.** A course designed to meet the needs of those who expect to teach geography either in the elementary or in the secondary schools. Various methods of teaching geography studied and evaluated: each student given an opportunity to become acquainted with the geographic literature, the materials usable in the teaching of geography, and the many teaching devices available—as all of these are related to his particular problem. 3 hours.
- 345. Political Geography of World Problems.** An integrated study of the political and geographical structure of the world and of its relation to the political affairs of the United States. Emphasis placed on interdependence and on the relations of natural resources and geographic factors to present political policies. Prerequisite, Geography 100. 4 hours.
- 401. Monsoonal Asia.** A topical and regional study of the wet lands of Asia. A course designed not only to give the student a realistic understanding of the various areas of Monsoonal Asia, but also to show how this vast area, containing almost two-thirds of the world's population, is related politically and economically to the rest of the world. Special attention focused on our occupation policy in Japan; internal civil strife in China; the movements toward independence in British India, the Dutch East Indies, and French Indo-China; and the now independent Philippines. Prerequisites, Geography 100, 101, and 210. 4 or 5 hours.
- 402. Russia and Southwestern Asia.** A study of the U.S.S.R. and the area often termed the Near East, based on both a topical and a regional approach. An attempt made to obtain an accurate appraisal of the natural resources base of Russia, as well as an estimate of her industrial and agricultural strength. Political problems of the U.S.S.R.

as they are related to the elements of the geographic environment. Effort directed particularly toward the problems associated with Palestine, in Southwestern Asia, and toward those associated with oil exploitation in Iraq, Iran, and Saudi Arabia. Prerequisites, Geography 100, 101, and 210. 4 or 5 hours.

405. **Advanced Economic Geography.** A study of the areal differentiation of the earth's economic life as reflected in the production movement, and consumption of raw materials, agricultural products, and commodities of industry in national and international trade. Hindrances and barriers to interstate and foreign trade examined, as well as current efforts to ease restrictions. Prerequisites, Geography 100, 101, and 210. 4 or 5 hours.
406. **Cartography and Graphics.** Critical supervision in the construction and reproduction of maps and charts used in reports, theses, and various publications. 3 or 4 hours.
407. **Climates of the World.** A study of the principles of climatology of world climates and the physical bases for the differentiation of climatic types. Prerequisites, Geography 100 and 310. 4 hours.
408. **Geography of Airways and Air Traffic.** Geographic description and interpretation of the airlines of the world, their present and potential traffic, and their economic, political, and social significance. Prerequisites, Geography 100, 101, and 210. 3 or 4 hours.
409. **Trade Centers and Trade Routes.** An intensive survey dealing with the evolution of trade centers and trade routes. Considerable time spent on problems encountered in urban and regional planning. Prerequisites, Geography 100, 101, and 210. 4 hours.
423. **Special Methods and Problems in Geography.** A research methods course offered primarily for teachers of geography, earth science, and allied subjects. Special problems studied from the two standpoints of pure research and teaching method. 3 or 4 hours.
424. **Methods and Problems in Resource-Use and Conservation.** A research methods course offered primarily for teachers of conservation or allied subjects. Selection of special problems which have not been covered in the subject matter courses or in education courses. Prerequisites, Geography 100 and 210. 3 or 4 hours.
430. **Physiographic Provinces of North America.** A course designed to give the student an intelligent appreciation of the evolution of land forms in the physiographic provinces of North America; to explain the surface features in a landscape; and to interpret the human drama related thereto. Prerequisites, Geography 100 and 101. 4 hours.
460. **Current Geographical Journals.** Course designed to acquaint students with the leading journals in the field of geography. Each student enrolled in course to report content of certain recent or current issues. Class meets for one period of two hours each week. Required of all geography majors. Prerequisite, 14 hours of geography. 2 hours.
- 500-510. **Pro-Seminar.** An introduction to the theory and techniques of research in geography. 2-4 hours.
511. **Philosophy of Geography.** A course to acquaint the student with the history and philosophies of geography as illustrated by various types and sources of literature. Emphasis placed upon the role of geography in the social studies. 3 or 4 hours.
512. **Geography of the Caribbean Lands.** A topical and regional study of the lands bordering the Caribbean, with a view of creating a basis for an understanding of the problems of the people as they are related

to their own environments, to the rest of the world, and particularly to the United States. Prerequisites, Geography 100, 101, and 210. 3 or 4 hours.

515. **Field Work Techniques.** A course to give the student field experience in observing, recording, mapping, photographing, and studying geography out of doors. Various field techniques and instruments employed in working out geographic projects. Prerequisites, Geography 100, 101, and 210. 3 or 4 hours.
520. **Seminar in Population Distribution.** An intensive study of problems in the distribution of population. A detailed and comprehensive study made of regions where population problems have become acute. Each student to select one area for intensive research. 3 hours.
521. **Seminar in Industrial Geography.** A comprehensive study of some of the many problems in industrial geography as they are conditioned by the elements of the geographic environment. 3 hours.

GOVERNMENT

Professors Alexander, Swartz (Chairman); Associate Professors Klingberg, Turner.

An undergraduate major for a student in the College of Education consists of thirty-six quarter hours; for a student in the College of Liberal Arts and Sciences, forty-two quarter hours. For a minor, twenty-four quarter hours are required in both Colleges.

A major or minor is recommended for those wishing to teach civics or government courses, and for those wishing to qualify for the study of law.

Senior-college students may be permitted to take advanced undergraduate courses in Government without any other prerequisites.

Students majoring in Government are urged to take as much work as possible in other social science departments, with at least one minor in a related field.

Students planning to take graduate work in Government beyond the Master's degree should acquire a reading knowledge of both French and German.

The department offers majors and minors leading to the degrees, Master of Arts and Master of Science in Education.

Suggested Curriculum in College of Education

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Govt. 101 .....	5	Govt. 102 .....	3	Govt. 103 .....	2
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or Music 100	3	Geog. 100 .....	5	Econ. 205 .....	5
French, German, or		French, German, or		French, German, or	
Spanish 101 .....	3	Spanish 102 .....	3	Spanish 103 .....	3
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	15-16		15-16		14-15
Sophomore Year					
Govt. 231 .....	5	Eng. 212 .....	3	Govt. 232 .....	3
Eng. 209 .....	3	Math. 106 .....	4	H. Ed. 202 .....	4
Hist. 202 .....	5	Zool. 101 or		Math. 120 .....	4
Physics, or		Bot. 101 .....	5	Soc. 101 .....	5
Chem. 101 .....	4	P. E. (Women)....	1	P. E. (Women)....	1
P. E. (Women)....	1	Electives* .....	3-5		
	17-18		15-18		16-17

## Junior Year

Govt. 360 .....	5	Govt. 370 .....	4	Govt. 380 .....	4
Educ. 205 .....	4	Educ. 305 .....	4	Govt. 385 .....	4
Eng. 300 .....	3	Electives* .....	7-9	Educ. 310 .....	4
Electives* .....	3-5			Electives* .....	3-5
	<u>15-17</u>		<u>15-17</u>		<u>15-17</u>

## Senior Year

Govt. 390 .....	4	Govt. 467 .....	3	Govt. 435 or 495....	4
Govt. 466 .....	3	Educ. 331 .....	4	Stud. Tchg. ....	8
Educ. 315 .....	4	Stud. Tchg. ....	4	Electives* .....	3-5
Electives* .....	4-6	Electives* .....	4-6		
	<u>15-17</u>		<u>15-16</u>		<u>15-17</u>

\* Unless a student has had work in one of the areas in high school, he must take a total of 3 quarter hours of work in Agriculture, Business Administration, Home Economics, or Industrial Arts.

## Suggested Curriculum in College of Liberal Arts and Sciences

## Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Govt. 101 .....	5	Govt. 102 .....	3	Govt. 103 .....	2
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or		Geog. 100 .....	5	Econ. 205 .....	5
Music 100 .....	3	French, German, or		French, German, or	
French, German, or		Spanish 102 .....	3	Spanish 103 .....	3
Spanish 101 .....	3	P. E. ....	1-2	P. E. ....	1-2
P. E. ....	1-2				
	<u>15-16</u>		<u>15-16</u>		<u>14-15</u>

## Sophomore Year

Govt. 231 .....	5	Bot. or Zool. 101...	5	Govt. 232 .....	3
Eng. 209 .....	3	Eng. 212 .....	3	H. Ed. 202.....	4
Hist. 202 .....	5	Math. 106 .....	4	Math. 120 .....	4
Physics, or		Bus. Ad. 170.....	4	Soc. 101 .....	5
Chem. 101 .....	4	P. E. (Women)....	1	P. E. (Women)....	1
P. E. (Women)....	1				
	<u>17-18</u>		<u>16-17</u>		<u>16-17</u>

## Junior Year

Govt. 360 .....	5	Govt. 370 .....	4	Govt. 385 .....	4
Econ. 310 .....	4	Econ. 330 .....	3	Geog. 324 .....	4
Soc. 331 .....	5	Soc. 355 .....	3	Soc. 369 .....	3
Electives .....	1-3	Electives .....	5-7	Electives .....	4-6
	<u>15-17</u>		<u>15-17</u>		<u>15-17</u>

## Senior Year

Govt. 380 .....	4	Govt. 390 .....	4	Govt. 435 or 495....	4
Geog. 345 .....	4	Geog. 328 .....	3	Hist. 330 .....	3
Philos. 310 .....	3	Philos. 316 .....	4	Electives .....	8-10
Electives .....	4-6	Electives .....	4-5		
	<u>15-17</u>		<u>15-16</u>		<u>15-17</u>

**101 (200). Problems of American Democracy I.** Introductory course designed for the dual purpose of meeting the social science and American government requirements and of providing a general survey of American democratic problems for those not intending to take additional work in the field. Emphasis given to problems pertaining to civil liberties, pressure groups and propaganda, the electoral system, and general governmental organization and procedures. 5 hours.

**102 (201). Problems of American Democracy II.** A continuation of 101, with emphasis on governmental functions and services. 3 hours.

103. **Problems of American Democracy III.** To be taken either separately or in conjunction with 102. Emphasis upon international relations and foreign policy. 2 hours.
231. **American Government I.** A survey course covering the structure, functions, and principles of the government of the United States; designed for those qualifying to teach in the field, preparing for law school, or specializing in government. May be taken in place of Government 101 to satisfy the social science and American government requirements. 5 hours.
232. **American Government II.** A survey of the structure and functions of state government. 3 hours.
300. **American National Government I.** An advanced course in American government designed for senior college students. Not open to students who have had Government 231. This course to satisfy the American government requirement in the College of Education. 5 hours.
305. **Development of the American Constitution.** The evolution of the United States constitutional system. Recommended for pre-law students. Turner. 4 hours.
315. **Administration of Justice.** A study of the organization and administration of the American judicial system. Recommended for pre-law students. Alexander. 3 hours.
330. **Illinois State Government.** The historical development of the governmental system of Illinois. 2 hours.
360. **Public Administration.** Dealing with the increasingly important problems of national, state, and local administration of government; machinery of administration; civil service; personnel management; administrative law. Turner. 5 hours.
370. **International Relations.** A study of the leading problems in world politics. Special consideration given to such topics as modern imperialism, contemporary colonial systems, and postwar problems. Klingberg. 4 hours.
380. **Political Parties.** The development of political parties in the United States; the fundamental principles underlying party organization and functions; the party platform, nominating systems, and campaign methods. Swartz. 4 hours.
385. **Contemporary Political "Isms".** An advanced survey of the leading schools of political thought in England and Europe in the nineteenth and twentieth centuries: Socialism, Communism, Pluralism, Fascism, Nationalism, etc. Swartz. 4 hours.
390. **Comparative Government.** A comparative study of the governmental systems of the leading countries of Europe: England, France, Sweden, Switzerland, Italy, Germany, Russia. Klingberg. 4 hours.
420. **Pressure Groups and Politics.** An analysis of the rapidly growing number of interest groups and their techniques of political propaganda. Swartz. 3 hours.
435. **Government and Business.** An historical study, with contemporary emphasis, of the increasingly important relations between government and economic institutions. Turner. 3 hours.

450. **Contemporary Legislation.** An analysis of contemporary national problems through a study of recent and proposed legislative enactment. Alexander. 2 hours.
466. **State Government and Administration.** A study of the leading problems in government and administration in American states and localities. Problems pertaining to the executive, legislative, and judicial; taxation, public health, education, commerce, and industry. Alexander. 3 hours.
467. **Municipal Government and Administration.** A study of the evolution of city government in the United States; the various types of city government; municipal elections, charters, etc. Alexander. 3 hours.
472. **International Government.** A study of the organization and development of international governmental and administrative systems; the machinery of international intercourse; the problems of war. Emphasis given to the organization and operation of the League of Nations and the United Nations. Swartz. 4 hours.
475. **International Law.** A study of the legal rules and practices governing the nations in their relations in peace and war. Careful attention given to those legal decisions which are recognized as important precedents in international law. Klingberg. 4 hours.
480. **The Pacific and the Far East.** A study of the increasingly important political and strategic problems in this area. Swartz. 4 hours.
487. **American Political Ideas.** An historical study of the political ideas of leading American statesmen and publicists, and their resulting influence upon our governmental system. Swartz. 4 hours.
495. **Constitutional Law.** A study of American constitutional principles, as illustrated by important decisions of the United States Supreme Court. Klingberg. 5 hours.
- 500-515. **Seminars.** These involving the preparation and presentation, for criticism, of assigned research papers. Hours of credit as announced.
500. **Seminar in Contemporary Legislation.**
502. **Seminar in American Governmental Problems.**
503. **Seminar in Pressure Groups.**
505. **Seminar in Political Parties.**
507. **Seminar in Postwar Problems.**
508. **Seminar in International Relations.**
509. **Seminar in International Organization.**
510. **Seminar in State Government.**
511. **Seminar in Local Government.**
512. **Seminar in Public Administration.**
- 520-525. **Readings in Government.** Supervised readings in selected subjects. Hours and credits to be arranged.
599. **Thesis.** 2-6 hours.

HISTORY

Professors Briggs (Chairman), Lentz; Associate Professors Caldwell, Cherry, Pitkin, Wright; Assistant Professors Baxter, Pardee.

Students who intend to make History their major field should consult with the representative of the department at the time of registration. Courses on the 100 and 200 levels are designed for freshmen and sophomores and are prerequisite to the more advanced work. Forty-two quarter hours are required for a major in History in the College of Liberal Arts and Sciences. Thirty-six quarter hours are required for a major in the College of Education. At least half of the work for a History major must be on the 300 and 400 levels, and care should be taken to distribute the work in the fields of American and European history. Twenty-four hours are required for a minor in History, and must include History 101, 102, 103, 201, and 202. Students wishing to use a History minor in the College of Education should take 12 hours each in the European and American fields.

Two terms of History 101, 102, 103 will meet the history requirements for graduation in the College of Liberal Arts and Sciences and in the College of Vocations and Professions. Five hours of United States history are required for graduation in the College of Education. History 201 or 202 will meet that requirement.

Courses on the 400 level may be taken for graduate credit by properly qualified students upon consent of the instructor.

A year of work in a foreign language is required of all History majors.

Suggested Curriculum in College of Education or in College of Liberal Arts and Sciences

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Hist. 101 .....	3	Hist. 102 .....	3	Hist. 103 .....	3
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bot. 101 or 202, or		For. Lang. ....	3	For. Lang. ....	3
Zool. 101 or 105..	5	H. Ed. 202.....	4	Geog. ....	5
For. Lang. ....	3	P. E. ....	1-2	P. E. ....	1-2
P. E. ....	1-2				
	15-16		14-15		15-16
Sophomore Year					
Hist. 201 .....	5	Hist. 202 .....	5	Econ. 205 .....	5
Eng. 205 .....	3	Eng. 209 .....	3	Eng. 211 .....	3
Chem. or		Chem. or		Math. ....	4
Physics 101 .....	4	Physics 102 .....	4	Electives .....	4
Soc. 101 .....	5	Govt. 231 .....	5	P. E. (Women)....	1
P. E. (Women)....	1	P. E. (Women)....	1		
	17-18		17-18		16-17
Junior Year					
History Electives ..	7	History Electives ..	7	History Electives ..	7
Minor .....	5	Minor .....	5	Minor .....	5
Electives .....	5	Electives .....	5	Electives .....	5
	17		17		17
Senior Year					
Hist. 451 .....	3	Hist. 452 .....	3	Hist. ....	3-5
Minor .....	4	Minor .....	4	Minor .....	4-5
Electives .....	10	Electives .....	10	Electives .....	7-10
	17		17		17

Electives must include 3 hours of Practical Arts and Crafts if these were not taken in High School.

The above curriculum is based on a 48-hour major in History, with one 24-hour minor. If a 36-hour major is taken, two minors are required, one of which must be outside the general field of the major.

In the College of Education, English 300, 20 hours of Education courses, and 12 hours of Student Teaching are required.

- 101, 102, 103. **Survey of World Civilization.** Courses designed primarily for freshmen, as a survey of the development and evolution of civilization; the foundation for further courses in the field of history. One term devoted to each of the periods: ancient, medieval, and modern. Required of all History majors. 3 hours each.
201. **History of the United States to 1865.** Courses 201 and 202 designed to provide a general survey of the political, social, and economic development of the United States. Prerequisite, sophomore standing. 5 hours.
202. **History of the United States Since 1865.** A continuation of 201. 5 hours. Either 201 or 202 to count toward graduation requirements in the College of Education.
- 210 (310). **The Middle Ages.** The history of Europe from the Ancient World to approximately 1400. Feudalism emphasized but a treatment of the religion and the intellectual life of Europe included. Prerequisite, freshman survey. Cherry. 4 hours.
- 211, 212. **Modern Europe, 1400-1949.** A comprehensive study of the principal social, economic, and political developments in Europe from the Middle Ages to the present time. 211: 1400-1815; 212: 1815-1949. Prerequisite, freshman survey. Cherry. 4 hours.
304. **History of the Ancient Near East.** A review of the political, economic, and religious history of Africa and Southwestern Asia from about 3000 B.C. to the time of Christ, including Egypt, Babylonia, Assyria, the Hittites, and the nations of Syria and Palestine. Particular attention paid to the history of the Hebrews. Prerequisite, freshman survey. Pardee. 3 hours.
305. **History of Greece.** A careful study of the cradle of civilization. In addition to the political and economic development of the Greeks, a consideration of their higher cultural development, as in philosophy, education, religion, art, and architecture. Pardee. 3 hours.
306. **History of Rome, 509 B.C. to 500 A.D.** The political, economic, and social history of Rome, with particular emphasis on Roman law, as well as upon the Roman development of Greek culture. The Roman world as a fertile soil for the spread of Christianity stressed. Pardee. 3 hours.
- 308 (208). **History of Illinois.** The history of the State from 1818 to the present. Recommended for History majors and those who expect to teach in elementary schools. Prerequisite, History 201 and 202. Wright. 3 hours.
318. **History of the Caribbean Area.** A general survey of the West Indies and Central America. Special attention devoted to the period 1650-1823. Prerequisite, History 215. Baxter. 3 hours.
- 322, 323, 324. **Survey of English History.** An introductory study of the institutional and cultural development of the English people from the earliest times to the present day. 322: Celtic Britain to 1603; 323: 1603-1815; 324: 1815-1949. Prerequisite, freshman survey. Cherry. 4 hours each.

330. **Middle Period of American History, 1789-1860.** A study of the conflicting sectional and nationalistic forces which characterize the period. The economic and political forces leading to the Civil War stressed. Prerequisites, History 201 and 202. 3 hours.
352. **Hispanic America.** An introductory survey of Hispanic-American history, from the Spanish conquest to the present time. Emphasizes the colonial heritage, events and circumstances attending the wars of independence, and the development of the modern republics. Baxter. 5 hours.
401. **History of the South to 1860.** An intensive study of the social, economic, political, and cultural development of the "Old South" to the Civil War, to bring out the distinctive culture and problems of the section. Prerequisite, History 201. 3 hours.
402. **History of the South since 1860.** The Civil War; political and economic reconstruction; the problems of the "New South". Prerequisite, History 202 and 401. 3 hours.
- 403, 404. **Hispanic-American Culture.** Individual phases of Latin-American life studied by various students. Lectures summarizing the leading institutions and developments of four centuries of Spanish life in America. Prerequisite, History 215. Baxter. 3 hours each.
405. **Civil War and Reconstruction.** Emphasis placed upon the clash of national and sectional interests, the economic and political as well as the military aspects of the conflict, and the course and consequences of reconstruction. Prerequisite, History 201 and 202. 3 hours.
410. **Special Readings in History.** Supervised readings for students with sufficient background. Registration by special permission only. Offered on demand. 3 hours.
- 411, 412, 413. **Intellectual History of the United States.** The various types of economic, social, and political thought that have influenced the development of the nation. Prerequisites, History 201 and 202. Briggs. 3 hours each.
415. **The Age of the Renaissance.** A course beginning with the Italian phase of the Renaissance and following its spread to other sections of Europe. Prerequisite, freshman survey. Caldwell. 3 hours.
416. **The Protestant Reformation.** A survey of the religious, cultural, and economic forces which brought about the movement for reform, with special attention to the political effects of the division of Christendom and the economic implications of Protestantism. Prerequisite, freshman survey. Caldwell. 3 hours.
417. **History of the British Empire.** A survey of English expansion beyond the seas, with an emphasis on the influence of mercantilism, *laissez faire*, and state capitalism on the pattern of control. Prerequisite, History 324. Cherry. 4 hours.
418. **English Constitutional History.** A study of the origin, growth, and continuous modification of the English political and legal institutions from earliest times to the present day. Prerequisite, History 324. Cherry. 4 hours.
419. **Seventeenth Century England.** A comprehensive treatment of the significant social, political, economic, and cultural trends in England during the Seventeenth Century, with special emphasis upon the forces producing increased parliamentary power. Prerequisite, History 324. Cherry. 4 hours.

- 420 (320). The French Revolution.** The passing of feudalism in France and the development of the background of the revolutionary movement carefully considered. Study carried through the revolutionary cycle, concluding with the fall of the Napoleonic Empire. Prerequisite, adequate background. 3 hours.
- 421. Research in Illinois History.** Investigation of special topics in various phases of the history of the State. Prerequisites, History 201, 202, 308, and permission of the department. Caldwell. 3 hours.
- 425 (325). American Colonial History.** The founding of the American colonies and the development of their institutions, through the Revolution. Prerequisite, History 201. Caldwell. 3 hours.
- 426. Social and Intellectual History of Hispanic-America.** A study of the intellectual origins and New World development of the "Hispanic mind". Philosophic, academic, and scientific ideas and controversies reviewed in an effort to arrive at an understanding of the culture and temperament of Hispanic America. Prerequisite, History 215. Knowledge of Spanish desirable. Baxter. 3 hours.
- 435, 436, 437. Recent United States History, 1865-1949.** A sequence of courses covering major problems and trends from the Civil War to the present; any part taken separately. Prerequisites, History 201 and 202. Pitkin. 3 hours each.
- 440 (340). History of American Diplomacy.** A study of the important treaty relations of the United States, and a general consideration of American foreign policies. Some attention given to the organization and functions of our Department of State. Prerequisites, History 201 and 202. Pitkin. 5 hours.
- 442, 443, 444. History of the West.** A series of three courses that provide an intensive study of the influence of the frontier on the main trends in United States history. Students permitted to take one or all courses. Prerequisites, History 201 and 202. Briggs. 3 hours each.
- 450. The World Since 1914.** A brief review of the causes and results of World War I, League of Nations, war debts, disarmament, causes of second World War, conflict, and United Nations. Prerequisite, adequate background. Pitkin. 5 hours.
- 451. Historiography.** The development of history as a written subject considered, including the works and philosophy of the various outstanding historians in the ancient, medieval, and modern periods. Some emphasis placed upon the different schools of American historians. Required of all majors in History. Prerequisite, senior standing. Briggs. 3 hours.
- 452. Historical Research and Thesis Writing.** The rules of historical research studied and applied to a definite topic. Required of all majors in History. Prerequisite, senior standing. Briggs. 3 hours.
- 453. New Viewpoints in American History.** A course presenting new interpretations and recent developments in the field of American history. Prerequisites, History 201 and 202. Briggs. 3 hours.
- 454. Biography in American History.** A study of outstanding leaders and their contributions to the history of the United States. Some attention paid to historical writers who specialize in biography. Prerequisite, a course in United States history. Briggs. 3 hours.
- 500-509. History Seminar.** Research methods applied to the various history fields. Prerequisite, graduate standing and adequate background. 3 hours. Offered on demand.

510. **Readings in History.** Registration by special permission only. 3 hours. Offered on demand.
- 511, 512, 513. **History Thesis.** Prerequisite, graduate standing and proper background. 2 hours each.
515. **Current United States History and Problems.** A combined content and research course dealing with contemporary American affairs. Consists of textbook assignments, outside readings, lectures, and projects for investigation. Prerequisite, graduate standing and proper background. Pitkin. 5 hours.
516. **Studies in Contemporary European Civilization.** A content and research course in European civilization since 1914, stressing the rise of fascism and the democratic crisis of the present time. Prerequisite, graduate standing and proper background. Caldwell. 5 hours.
517. **Constitutional History of the United States and Problems.** A combined content and research course involving a careful study of the origin and development of the American constitution from its English background, through the convention, to the present. Special attention given to the progressive adaptation of law to a changing social and economic order. Prerequisite, graduate standing and proper background. Briggs. 5 hours.
518. **Studies in Later Stuart England.** A combination content and research course dealing with some of the leading social, institutional, and cultural problems created by the impact of the rising liberal forces on English life and traditions. Prerequisite, graduate standing and proper background. Cherry. 5 hours.

## MATHEMATICS

Associate Professors McDaniel (Acting Chairman), Black, Rodabaugh; Assistant Professor Wright.

Students may take a Mathematics major in the College of Liberal Arts, or in the College of Education, in preparation for high school teaching. Students in any of the colleges may take a minor in Mathematics.

Students who expect to take either a major or a minor in Mathematics should take courses 111, 112, 113, 251, and 252. If a student must take course 106 in place of 111 as a beginning course, he should enroll for 111 at the same time as for 112, in order to be ready for analytic geometry the third term. Courses especially recommended for completing either a 36 or 48-hour major in the College of Education are 108, 303, 307, 311, 317, 320, 421, and 460. Students completing a 42-hour major in the College of Liberal Arts may take any of the 300 or 400 courses (except 311) or course 108. Mathematics 210 does not count toward a major or minor. Courses 210 and 311 are not counted for graduation in the College of Liberal Arts. Nine hours of a foreign language, or the equivalent, are required of all majors.

The Department of Mathematics offers graduate work leading to the Master of Science or the Master of Arts Degree. A student working toward one of these degrees may take either a major or a minor in Mathematics.

Three beginning courses in Mathematics are given by the department. Mathematics 100, carrying no college credit, is a course in elementary algebra. Mathematics 106, a course in intermediate algebra, is offered particularly for students taking Mathematics to satisfy part of the general education requirements. Mathematics 111, a course in college algebra, is for students who need preparation for analytic geometry and calculus. It is recommended especially for students who expect to major in Chemistry or Physics, for pre-engineering students, and for students who expect to take either a major or a minor in Mathematics. Students who take course 111 after course 106 may receive a total of 6 hours' credit for the two courses, four in one and two

in the other. No student may take course 106 for credit after receiving credit for course 111.

Courses 106, 107, and 120 are offered for students taking mathematics as part of the general education requirements. They will not be counted toward a major or minor in Mathematics. Students in the field of Business Administration should enroll in the sections of Mathematics 106 and 107 given especially for them, which will be designated in the schedule as 106B and 107B. Students interested principally in statistics should enroll in 106S and 120. Other students should enroll in the general sections 106A and 107A.

100. **Elementary Algebra.** An introductory course in algebra for students who have inadequate preparation for course 106. No credit.
106. **General Mathematics I.** Intermediate algebra, including fundamental operations, factoring, fractions, exponents, radicals, logarithms, linear and quadratic equations, and graphs. Offered particularly for students taking mathematics as part of the general education requirement. Regular sections designated in the schedule as 106A; sections for Business Administration students as 106B; and sections for students particularly interested in preparing for courses in statistics as 106S. 4 hours.
107. **General Mathematics II.** Elementary mathematics of finance. Compound interest, annuities certain, life annuities, and life insurance. Offered particularly for students taking mathematics as part of the general education requirements. Regular sections designated in the schedule as 107A; and sections for Business Administration students as 107B. Prerequisite, Mathematics 106 or 111. 4 hours.
108. **Solid Geometry.** Recommended for pre-engineering students and students preparing to teach high school mathematics if they have not had a high school course in solid geometry. May not be taken for credit if student has had solid geometry in high school. 3 hours.
111. **College Algebra.** The usual topics of college algebra, including determinants, logarithms, higher degree equations, and the binomial theorem. Prerequisite, three semesters of high school algebra, or Mathematics 106. 4 hours.
112. **Plane Trigonometry.** Prerequisite, Mathematics 111 or 106. 4 hours.
113. **Plane Analytic Geometry.** Straight line, circle, conic sections, loci, polar co-ordinates, parametric equations, and transformations. Prerequisites, Mathematics 111 and 112. 5 hours.
120. **Elementary Statistics.** A course for students having the minimum amount of preparation. Offered particularly for students taking mathematics as part of the general education requirement. Prerequisite, Mathematics 106 or 111. 4 hours.
210. **Mathematics for Elementary Teachers.** A professional treatment of the subject matter of arithmetic, including historical development of some topics of arithmetic, methods, and a study of trends and current literature on the teaching of arithmetic. This course planned primarily for elementary school teachers. Prerequisite, Mathematics 106. 4 hours.
251. **Calculus I.** The elements of the differential calculus, with applications to geometry, physics, and other sciences. Prerequisite, Mathematics 113. 4 hours.
252. **Calculus II.** A continuation of 251. Additional applications of differential calculus, methods of integration, and some applications of integration. Prerequisite, Mathematics 251. 4 hours.

303. **Calculus III.** A continuation of 252. Additional applications of integration, multiple integrals, series, and partial derivatives. Prerequisite, Mathematics 252. 4 hours.
305. **Differential Equations I.** First order differential equations, with applications to geometry and physical science. Prerequisite, Mathematics 303. 3 hours.
306. **Differential Equations II.** A continuation of 305. Additional types of ordinary differential equations, and an introduction to partial differential equations. Applications. Prerequisite, Mathematics 305. 3 hours.
307. **Elementary Mathematical Statistics.** A beginning statistics course for students having a knowledge of the calculus. Statistical charts, averages, dispersions and skewness, curve fitting, linear correlation. Prerequisite, Mathematics 252. 4 hours.
311. **The Teaching of Secondary Mathematics.** A course including a study of the origin and nature of mathematics, the history of the teaching of mathematics, and current literature on the teaching of secondary mathematics. Special attention given to the two 1940 Reports on the Teaching of Secondary Mathematics. Prerequisite, twenty hours of college mathematics. 3 hours.
313. **Solid Analytic Geometry.** The analytic geometry of curves and surfaces in space, including the study of straight lines, planes, and quadric surfaces. Prerequisite, Mathematics 113. 4 hours.
317. **Mathematical Theory of Finance.** Simple and compound interest, annuities certain, sinking funds, amortization, bonds, life annuities, and life insurance. No student to receive credit for both this course and Mathematics 107. Prerequisite, twelve hours of college mathematics. 3 hours.
320. **Advanced College Algebra.** A further study of more advanced topics in algebra, including progressions, inequalities, mathematical induction, permutations and combinations, and complex numbers. Some topics in the theory of equations, including the solution of higher-degree equations, graphical methods, and roots of unity. A course particularly valuable as a background for the teaching of algebra. Prerequisite, Mathematics 251. 3 hours.
421. **Theory of Equations.** The more advanced parts of the traditional college course in this subject. Topics including isolations of the roots of polynomial equations, symmetric functions, methods of approximating roots, determinants, systems of equations, resultants, and possible constructions with ruler and compass. Prerequisite, Mathematics 320. 3 hours.
430. **Synthetic Projective Geometry.** Introduction to the fundamental concepts of projective geometry, including a study of conics and polar systems of conics. At the beginning, projective properties distinguished from metric specializations. Later, full opportunity given to prove some of the more familiar metric properties as special cases of the projective theorems. Prerequisite, Mathematics 113. 4 hours.
451. **Infinite Series.** A course in advanced calculus, including the theory of infinite sequences and series of constants, tests for convergence, series of variable terms, power series, and Fourier series. Prerequisite, Mathematics 303. 3 hours.
452. **Foundations of the Calculus.** A course in advanced calculus, including the theory of limits and its application to differentiation and integration, both with functions of one variable and with functions of more than one variable. Prerequisite, Mathematics 303. 3 hours.

- 460. Modern Geometry.** Advanced topics in Euclidean geometry by the synthetic method. Topics including the nine-point circle, Simson line, theorems of Ceva and Menelaus, coaxal circles, harmonic section, poles and polars, similitude, and inversion. Prerequisite, twelve hours of college mathematics. 4 hours.
- 480. Probability.** The basic theorems of probability theory and their applications. Prerequisite, Mathematics 303. 3 hours.
- 481. Mathematical Statistics II.** A second course in statistics, with emphasis on sampling theory. Prerequisites, Mathematics 307 and 480. 3 hours.
- 505. Topics in Modern Mathematics.** A course planned to show the relationship among the various parts of mathematics already studied by the student, to provide an introduction to selected topics in modern mathematics, and to present a clarified picture of the mathematical field. Topics from algebra, geometry, analysis, and applied mathematics included. 6 hours.
- 515. Non-Euclidean Geometry.** An introduction to hyperbolic and elliptic plane geometry and trigonometry. Emphasis given to the nature and significance of geometry and the historical background of non-Euclidean geometry. 3 hours.
- 520. Modern Algebra I.** A course intended to display some of the richness of algebra when other possible mathematical systems are considered in addition to the traditional one based upon ordinary complex numbers, and also to examine the basic concepts of the ordinary systems of algebra. Among the topics studied—the uniqueness of factorization, rational numbers and fields, polynomials, complex numbers, and theory of permutation groups.
- 521. Modern Algebra II.** A continuation of 520. Additional group theory, vector spaces, matrices, algebraic number fields. 4 hours.
- 525. Theory of Numbers.** Topics in elementary number theory, including properties of integers and prime numbers, divisibility, Diophantine equations, congruence of numbers, continued fractions magic squares, and other topics. 3 hours.
- 530. Topology.** General properties of sets. Topology of plane sets. Closed sets and open sets in metric spaces, homeomorphism and continuous mappings, separation theorems, connectivity properties.
- 535. Algebraic Plane Curves.** A study of algebraic plane curves of order higher than two, including an introduction to the history and methods of algebraic geometry. Lectures, assigned readings, and exercises. Prerequisite, Mathematics 303. 4 hours.
- 550-559. Seminars.** Supervised study and preparation of reports on assigned topics in the field. Reports presented for class discussion. Hours of credit as announced.
- 550. Seminar in the Teaching of Mathematics.**
- 551. Seminar in Algebra.**
- 552. Seminar in Geometry.**
- 553. Seminar in Analysis.**
- 554. Seminar in Applied Mathematics.**  
**Thesis in Mathematics.**

## MICROBIOLOGY

Professor Lindegren (Chairman); Assistant Professor Raut.

Courses in Microbiology may be taken as part of a Biological Science major or minor leading to either the Master of Science degree or the Master of Science in Education degree.

- 300, 301. General Bacteriology.** An introductory course covering the nature of bacteria and other microorganisms and their relation to agriculture, sanitation and disease; 2 hours lecture and 4 hours laboratory per week. Prerequisite, 1 year chemistry and 1 year biology. 4 hours each. Fall and Winter.
- 501. Genetics of Microorganisms.** Survey of the genetics of bacteriophages, bacteria, protozoa, mucors, smuts, rusts, ascomycetes and basidiomycetes. One 1-hour lecture on theoretical aspects and two practical 2-hour laboratory demonstrations using yeasts. Lindegren and Raut. 3 hours.
- 511. Research in Genetics of Microorganisms.** Research in areas described in 501 with hours and credits arranged to meet each individual case. Lindegren and Raut. One to three hours per quarter.
- 502. Metabolism of Microorganisms.** A study of nutrition, metabolism, adaptation and utilization of substrate, oxygen consumption, and carbon dioxide production. One 1-hour lecture and two 2-hour laboratory periods. Lindegren and Raut. 3 hours.
- 512. Research in Metabolism of Microorganisms.** Research in areas described in 502 with hours and credits arranged to meet each individual case. Lindegren and Raut. One to three hours per quarter.
- 503. Cytology of Microorganisms.** Microscopical study of the yeast cell with demonstrations of chromosomes, mitochondria and centrosome and methods of staining. One 1-hour lecture and two 2-hour laboratory periods. Lindegren. 3 hours.
- 513. Research in the Cytology of Microorganisms.** Research in areas described in 503, with hours and credits arranged to meet each individual case. Lindegren. One to three hours per quarter.

## PHILOSOPHY

Professor Tenney (Acting Chairman).

A minor in Philosophy consists of twenty-four quarter hours. Certain closely related subjects in other departments may be counted on the minor, subject to the consent of the Philosophy instructor.

- 200. Approaches to Knowledge.** An attempt to show the relationship of the various college subjects to each other and to the student's basic beliefs and attitudes, with a view to integrating his studies and experiences. 3 hours.
- 290, 390. American Thought.** A survey of the ideas and ideals of Puritanism, transcendentalism, realism, pragmatism, and the other major philosophies which govern the behavior of modern Americans. 4 hours.
- 300. Types of Philosophy.** A beginning discussion of naturalism, idealism, pragmatism, realism, mysticism, and other important systems of thought, with special reference to the views of such modern philosophers as Bergson, James, Alexander, and Whitehead. Fills the Phi-

osophy requirement in the College of Liberal Arts and Sciences. 4 hours.

310. **Introduction to Reflective Thinking.** A study of reasoning processes in action; the logical principles involved in the solution of historical, scientific, ethical, metaphysical, and practical problems. 3 hours.
316. **Ethics.** An analysis of the principal theories of right and wrong, with practical applications to moral problems derived from the student's experience. Fills the Philosophy requirement in the College of Liberal Arts and Sciences. 4 hours.
320. **Philosophy of Religion.** An objective survey of the various religious points of view prevailing in the Western World. 4 hours.
345. **Philosophy of Art.** A survey of present-day theories of aesthetics, together with discussions of recent examples of music, painting, and literature in terms of the theories behind them. Purpose of the course is not only to speculate about taste in the fine arts but also to improve it. 4 hours.
355. **Philosophy of Education.** Theories of knowledge and their relationship to educational practices. Course may count on the Education requirement as Education 355. 4 hours.
555. **Seminar in Educational Philosophies.** For graduate students in elementary or secondary education. Offered only on request. 4 hours.

PHYSICS AND ASTRONOMY

Professor Young (Chairman); Assistant Professor Zimmerschied.

A minimum of 36 hours are required for a major in Physics in the College of Education, and 42 hours are required for a major in the College of Liberal Arts and Sciences. For a minor in either college, 24 hours are required.

Suggested Curricula in College of Education and College of Liberal Arts and Sciences

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Physics 106 .....	5	Physics 107 .....	5	Physics 108 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Foreign Language*....	3	Foreign Language*....	3	Foreign Language*....	3
Math. 111 .....	4	Math. 112 .....	4	Math. 113 .....	4
P. E. ....	2	P. E. ....	2	P. E. ....	2
	17		17		17
Sophomore Year					
Physics .....	5	Bot. or Zool.....	5	Physics .....	5
Chem. 111 .....	5	Chem. 112 .....	5	Chem. 113 .....	5
Math. 251 .....	4	Math. 252 .....	4	Math. 303 .....	4
Art 120 or Music 100..	3	Prac. Arts or Crafts or		Electives .....	3
	17	Electives .....	4		17
			18		
Junior Year					
Physics .....	5	Health Ed. 202.....	4	Physics .....	5
Eng. Lit. ....	3	Eng. Lit. ....	3	Educ.† .....	8
Educ. 206 or Phil.†....	4	Eng. 300† .....	3	Soc. Stud. ....	5
Soc. Stud. ....	5	Soc. Stud. ....	5		18
	17		15		

Senior Year					
Physics .....	5	Physics .....	5	Physics .....	5
Soc. Stud. ....	5	Student Teaching or		Educ. or Electives.....	11
Educ. or Electives†....	8	Electives† .....	12		16
	18		17		

\* Requirements for College of Liberal Arts and Sciences.  
† Requirement for College of Education.

- 101, 102. **Survey Course in Physics.** Mechanics, mechanical vibration, wave motion, light and sound covered in 101; heat and electricity taken up in 102. 101 and 102 together constituting a single complete course. Planned for those whose chief interests are not in the natural sciences, to enable them to interpret intelligently common physical phenomena, and to obtain some insight into scientific methods. Mathematics and measurements not stressed. 101 and 102 to count toward graduation, but not to be used to meet pre-medical or pre-engineering requirements in physics. Those desiring to meet these requirements, or desiring further work in this field, and all who elect physics as a major or minor, must take their general college physics in 106, 107, and 108. A student desiring credit in 106, 107, and 108 should not take 101 and 102. 4 hours each.
- 106, 107, 108. **College Physics.** 106 including mechanics and sound; 107, electricity and magnetism; 108, heat and light. These three courses open to all students; may be taken in any order. Especially recommended for those who are scientifically inclined, who plan to take additional work in physics, or who desire pre-technical training. 5 hours each.
209. **Photography and Geometrical Optics.** Principles of geometrical optics with applications to photography, including a treatment of the laws of image formation, optical systems, aberrations in optical systems, optical instruments, and elementary photographic techniques. Prerequisites, Physics 108 and Mathematics 106 or 111 and 112. 5 hours.
301. **Mechanics.** An intensive study of forces, moments, translational and rotational motion, energy, friction, machine, elasticity of beams, mechanics of fluids. Supplementary material including laboratory and demonstration experiments. 5 hours.
- 301a. **Analytical Mechanics for Engineers.** Not for those students who take 301. Prerequisite, Mathematics 251, or registration therein. 5 hours.
303. **Heat.** A study and measurement of the fundamental quantitative aspects of heat. Also, considerable attention to the principles and applications of thermodynamics. 5 hours.
305. **Magnetism and Electricity.** Intensive study of fundamentals; Gauss' theorem, magnetometers, equipotential surfaces, capacity, energy, electrometers, alternating current, electromagnetics, applications. 5 hours.
306. **Magnetic and Electrical Measurements.** A laboratory course stressing accuracy and technique. Includes resistances, galvanometers, electrical currents, capacities, damping, potentiometers, self and mutual induction, hysteresis losses. 5 hours.
308. **Sound.** Theory of vibrations, vibration systems and sources of sound, transmission, reception, transformation, measurement of sound energy, technical applications. 5 hours.
310. **Light.** A detailed study of light phenomena, including principles and theories underlying measurement of speed, propagation of light, op-

tical instruments, spectra, interference, diffraction, polarization, radiation in general. 5 hours.

312. **Radio.** A study of the fundamental principles of radio reception, and phone and C. W. transmission. Special attention given to the more important receiving circuits, including the regenerative, neutrodyne, and superheterodyne. Laboratory demonstrations and experiments used to supplement the course. 5 hours.
314. **Introduction to Modern Physics.** A course offering a general survey of recent and fascinating developments in physics. Including such subjects as the electron, thermionics, the photoelectric effect, radioactivity and isotopes, astrophysics, relativity, atomic and nuclear topics. 5 hours.
316. **History of Physics.** A study of the development of physics thought, concepts and theories, including the results and methods of contemporary physical research. This course especially valuable for those who desire to teach. 5 hours.
405. **Electronics.** Alternating current theory, including circuit analysis by the use of complex numbers. Principles of vacuum tubes, including a treatment of rectifier, amplifier, oscillator, and photo tube circuits. Application of electronics, including discussion of electron tube instruments. Prerequisites, calculus and three advanced physics courses. 5 hours.
414. **Recent Developments.** A course stressing those recent developments in physics which are of special importance in experimental, theoretical, or applied fields. An abundance of material because of the present rapid rate of such developments. Emphasis given to atomic energy and sub-atomic particles, electronoptics, high velocity projectiles, and ultra-high frequency radiation. Prerequisites, calculus and three advanced physics courses. 5 hours.
520. **Special Projects.** A course in which each student is assigned a definite investigative topic which demands of him considerable resourcefulness and initiative. Required use of appropriate scientific methods and techniques. Individual project to be determined by student's needs and ability, and by the facilities of the department. The project selected from one of the following groups:
  1. Experimental problems of a research nature.
  2. Experimental problems of a developmental or instrumental nature.
  3. Educational or professional projects in the field of physics.
  4. Theoretical problems of a research or borderline-research nature.Prerequisite, graduate status and adequate physics background. 2-5 hours.

## Astronomy

- 201, 202. **Introduction to Astronomy.** These two terms together constituting a single complete course. Four recitations a week, together with frequent evening observations with and without telescope. Study progresses from the earth to the moon, the sun, the planets, the stars, and the nebulae; varying phases of the moon and the inferior planets, the vast distances to the stars, their great magnitude and high velocities, their constitution, temperature, and brilliance. Especially helpful in presenting the difficult problems of mathematical geography and in vitalizing nature study work. 4 hours each.
- 301, 302. **Astronomy.** A more advanced course, similar to 201 and 202, for senior-college students. 4 hours each.

## PHYSIOLOGY

Professor Hinrichs (Chairman).

The Department of Physiology, formerly a part of the Department of Physiology and Health Education, will offer a minor beginning the Fall Quarter, 1949.

- 209a. Introduction to Physiology.** Form and function as interdependent characteristics of the various systems of the human body. Demonstrations and class experiments illustrating simple facts of human physiology. Preliminary and prerequisite to all other courses in physiology. 4 hours.
- 300. Human Anatomy.** By the use of skeletons and manikins, the principles of human anatomy introduced. Designed especially for majors in the biological sciences and in physical education. 4 hours.
- 303. Physiology of Exercise.** A study of the effects of exercise upon the various systems of the body. Designed especially for majors in health education and physical education. 2 hours.
- 315, 316, 317. Advanced College Physiology.** Series of three consecutive courses, especially designed for students intending to do advanced work or teaching in the biological sciences. (Course 315, Blood, Circulation, and Respiration; Course 316, Gastrointestinal and Endocrine Systems; Course 317, Nervous System and Special Senses.) Admission by permission of the instructor. 5 hours for each course.
- 360. Fundamentals in Clinical Laboratory Testing.** Introduction to the techniques and simpler principles of diagnostic tests employed in clinical medicine. Recommended as elective course for pre-professional students in the fields of medicine, nursing, dentistry, veterinary medicine, and allied sciences. 2 hours.
- 365. Introduction to Pathology.** Gross and microscopic changes in tissues due to local or systemic disease conditions. Prerequisite, Zoology 420. 2 hours.
- 380. The Meaning of the Physical Examination.** Introduction to the techniques of a physical examination, and discussion of the results of the significance of such an examination. Primarily for majors and minors in health education, in physiology, and in physical education, and for pre-professional students. 2 hours.
- 400. History of Medicine.** Including the history of Medicine from antiquity to the present, with moderate emphasis on the latest medical discoveries and their significance. 2 hours.
- 450, 451. Special Problems in Advanced Physiology.** Selected studies with review of the latest literature on various phases of human physiology. Fall and Spring terms only. 4 hours each.
- 590. Methods and Problems in Research.** Prerequisite, Physiology 451. Permission of department chairman. 4-6 hours.

## SOCIOLOGY

Professor Johnson (Chairman); Associate Professor Tudor; Assistant Professor Petroff.

For students in the College of Liberal Arts and Sciences, a major in Sociology shall consist of not fewer than 42 quarter hours. Such students should complete a minor of not fewer than 24 hours in a related field; e.g., Economics, Geography, Government, History, or Psychology.

Students in the College of Education may take a major of 36 quarter hours in Sociology, with one minor of at least 24 quarter hours in another social science, or other related subject, and a second minor in a different department; or a major of 48 quarter hours in Sociology, with a single minor of 24 hours in a different field. For students who expect to teach Sociology in secondary schools, the 36-hour plan, with one minor in another social science, is recommended. The foreign language requirement for students who major in Sociology in the College of Education shall be the same as for students in the College of Liberal Arts and Sciences, but this requirement may be waived in case of students who will otherwise complete all requirements for the Bachelor of Science in Education degree prior to August 31, 1950.

All students taking majors in Sociology are required to take Sociology 460, and one course in statistical methods.

Students who desire a minor in Sociology are invited to consult the department chairman, or other members of the department staff for advice in selection of courses which will contribute most to their academic and professional aims.

101. **Introductory Sociology.** Survey of Sociology. Interrelationships of personality, social organization, and culture; major social processes; structure and organization of groups. This course prerequisite to all other courses in Sociology. Staff. 5 hours.
202. **Applied Sociology.** An application of sociological principles to the analysis of various contemporary social problems. Prerequisite, Sociology 101. Staff. 5 hours.
210. **General Anthropology.** Origin of man and culture; cultural types and processes; environmental effects. One or two field trips. Petroff. 5 hours.
301. **Juvenile Delinquency.** The nature of juvenile delinquency and factors contributing to delinquent behavior; practices and proposals in connection with treatment and prevention of delinquency. Prerequisites, Sociology 101 and 202. Petroff. 3 hours.
303. **Marriage and Parenthood.** Processes of courtship and mate selection in contemporary society; biological, psychological, social and legal aspects of marriage; social and legal obligations of parenthood. Prerequisite, Sociology 101. 3 hours.
305. **Social Institutions.** Concepts of social institutions, study of the origin, development, and variability of human institutions, and of the processes of institutional lag and institutional change in contemporary society. Prerequisites, Sociology 101 and 202. Petroff. 3 hours.
310. **The Family.** The family in historic society and various contemporary cultures; the Industrial Revolution and the evolution of the modern family; changes in family functions; the family and the community; changing roles of women; the child in the family; growing instability; family constellations and personality development. Prerequisites, Sociology 101 and 202. Johnson. 4 hours.

311. **Urban Sociology.** The rise, development, structure, culture, and problems of early and modern cities; urban personality types and human groupings. Prerequisites, Sociology 101 and 202. 4 hours.
314. **Population Problems.** Analysis of composition and characteristics of changing populations. Birth rates; death rates; migration and mobility; population growth. An introduction to population theory and policy. Prerequisites, Sociology 101 and 202. Tudor. 4 hours.
315. **Crime and Its Treatment.** The nature of crime; classifications, changing types of crime, criminal statistics, causal factors; theories and procedures in the treatment of the criminal. Prerequisites, Sociology 101 and 202. Johnson. 3 hours.
316. **Sociology of Rural Life.** Organization, structure, and functioning of rural groups; the composition and distribution of the people in the rural segment of the American society. Prerequisites, Sociology 101 and 202. Tudor. 4 hours.
320. **Race and Minority Group Relations.** Racial and cultural contacts and conflicts, the nature and causes of prejudices; status and participation of various minority groups in American society; national and international aspects of minority problems. Prerequisites, Sociology 101 and 202. Johnson. 3 hours.
325. **Industrial Sociology.** Interpretation of the theories and principles which underlie the present organization of mass production; socially disintegrating effects of unemployment, standardization, and technology. Prerequisites, Sociology 101, and Economics 310. 3 hours.
330. **Propaganda and Public Opinion Analysis.** Techniques and characteristics of propaganda, and the methods devised to measure and estimate public opinion on controversial issues. Prerequisites, Sociology 101 and 202. 3 hours.
331. **Social Control.** The means by which members of groups are regulated; the importance of social institutions as factors in the shaping of group opinion; and analysis of giving direction to social action. Prerequisites, Sociology 101 and 202. Petroff. 4 hours.
355. **Social Psychology.** Inter-action and inter-stimulation in groups; the behavior of man as influenced by suggestion, fashion, fads, customs, and group morale. Prerequisites, Sociology 101 and 202. Petroff. 4 hours.
366. **The American Indian.** Origin, distribution, and culture of the American Indian; the effects of his contacts and conflicts with white men. Prerequisite, Sociology 210. 3 hours.
369. **Sociology of Leadership.** Theories of leadership, tests of leadership, and analysis of representative leaders. Prerequisites, Sociology 101 and 202. 3 hours.
375. **Community Organization.** Factors involved in community organization and their integration; types, aims and objectives; community diagnosis; relationships with larger social units in the national life; individual case study of a specific community. Prerequisites, Sociology 101 and 202. Tudor. 4 hours.
381. **Personality and Social Adjustment.** Survey of recent psychological and sociological theories relating to personality; problems of personal adjustment in major social relationships; adjustment norms and deviations from the normal; techniques for the analysis and classification of personalities. Prerequisite, Sociology 355. Johnson. 4 hours.

- 410. Social Research Methods.** Discussion and evaluation of various methods of collecting, classifying, interpreting, and presenting social data, with particular emphasis on local research projects. Prerequisite, one course in statistical methods. Tudor. 4 hours.
- 450. History of Social Thought Prior to the Twentieth Century.** A critical survey of the social thinking of some outstanding teachers of ancient, medieval, and modern times, including Egyptian, Oriental, Hebrew, Christian, Greek, and Roman representatives; the schools of social thought developing after the Middle Ages. Johnson. 4 hours.
- 455. Contemporary Sociology.** Developments in Sociology since 1850, with special attention to works of Comte, Spencer, Ward, Max Weber, Gumplowicz, Giddings, Small, Sumner, Ross, Cooley, Drukheim, and leading contemporary sociologists. Prerequisites, Sociology 101 and 202. Johnson. 4 hours.
- 460. Current Sociological Journals.** Each student enrolled in this course responsible for reporting to the group on the content of certain recent or current issues of leading journals in the fields of Sociology and Social Psychology. Class meetings, one period of 2 hours each week. Required of all Sociology majors. Prerequisite, 15 hours of Sociology. Graduate staff. 2 hours.
- 500. Cultural Change.** Processes of cultural change in the modern world; culture lag and culture conflict; individual and social problems arising from conflicting systems of cultural norms. Prerequisites, Sociology 101 or 210, and 202. Johnson. 3 hours.
- 510. Thesis.** Prerequisites, Sociology 410 and 24 hours of Sociology. Graduate staff. 6-9 hours.
- 512. Human Ecology.** The spatial structure of societies; social, industrial, geographic, psychological, and cultural factors in stratification of human groups; theoretical significance of recent ecological research. Prerequisite, 24 hours of Sociology. Tudor. 3 hours.
- 515. Seminar on the Family.** Problems created in the home and family by the impact of economic and social changes, and measures for meeting these problems; programs for the conservation of the family and for raising the level of family welfare. Prerequisites, Sociology 310 and 24 hours of Sociology. Johnson. 4 hours.
- 520. Social Disorganization.** Disorganization within contemporary society; interrelationship of social, economic, and political problems; application of theory of prevention and treatment. Prerequisite, 24 hours of Sociology. Tudor. 4 hours.
- 550. Seminar—Foundations of American Sociology.** A detailed study of the writings of pioneer American sociologists: Ward, Sumner, Giddings, Ross, Small, and Cooley. Course continuing through two quarters, meeting three hours each week. Prerequisites, Sociology 455 and 24 hours of Sociology. Graduate Staff. 6 hours.
- 556. Readings in Sociology.** Supervised readings in selected subjects. Graduate staff. Hours and credits to be arranged.
- 560. Social Processes.** Analysis of social processes and the social structures which arise from them. Prerequisite, 24 hours of Sociology. Johnson. 3 hours.
- 575. Seminar in Community Development.** Analysis of community types found in other countries; the development of community types in the

United States; principles governing their organization and functioning. Prerequisite, 24 hours of Sociology. Tudor. 4 hours.

580. **Social Organization.** Organization of human groups in contemporary as well as in primitive societies, including the theories of social organization, group structure, and social processes. Prerequisites, Sociology 450, 455, and 24 hours of Sociology. Tudor. 4 hours.

## ZOOLOGY

Professor Gersbacher (Chairman); Associate Professors C. Foote, Rafalko, Stein; Assistant Professor F. Foote.

A total of forty-two to forty-four quarter hours is required for a major in Zoology. Six courses are required for a minor.

Zoology 101, 105, 200, 201, 300, 320, and 335 or their equivalents are required on a major in Zoology in the College of Liberal Arts and Sciences.

Zoology 101, 105, 200, 201, 300, and 335 or their equivalents are required on a major in Zoology in the College of Education.

Zoology 101, 105, and four other courses, two of which should be on the 300 level, are required for a minor.

Zoology 101, 105, 200, 201, 300, 320, and 321 are courses which will be of great value to pre-medical and pre-dental students, and to those planning to take nurses' training.

One year of foreign language (preferably French, German, or Russian) is required of all majors.

### Suggested Curriculum in College of Education

#### Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Zool. 101 .....	5	Zool. 105 .....	5	Bot. 101 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Foreign Language*....	3	Foreign Language*....	3	Foreign Language*....	3
Geog. 100 .....	5	Soc. 101 or Econ. 205..	5	Math. 106 or 111.....	4

#### Sophomore Year

Zool. 200 .....	5	Zool. 201 .....	5	Bot. 203 .....	5
Chem. 111 .....	5	Chem. 112 .....	5	Chem. 113 .....	5
Hist. 201 .....	5	Eng. 205 or 209.....	3	Mus. 100 or Art 120...	3
Eng. 211 or 212.....	3	Health Ed. 202.....	4	Govt. 101 or 231.....	5

#### Junior Year

Zool. 300 .....	5	Bot. 202 .....	5	Zool. 335 .....	5
Chem. 305 .....	4	Chem. 306 .....	4	Chem. 451 .....	4
Physics or Electives...	4	Physics or Electives...	4	Eng. 300 .....	3
Educ. 205 .....	4	Electives .....	4	Educ. 305, 306 (or 345)	4

#### Senior Year

Zoology Electives .....	4	Zoology Electives .....	5	Zoology Electives .....	4
Educ. 331 .....	4	Educ. 315 .....	4	Educ. 310 .....	4
Student Teaching .....	4	Student Teaching .....	4	Student Teaching .....	4
Electives .....	3	Electives .....	4	Electives .....	4

\* Language recommended: French, German, or Russian.

Six hours of Physical Education are required of all students in their freshman and sophomore years. Health Ed. 202 is required. Also 3 hours of Agriculture, Business, Home Economics, or Industrial Education, unless these are credited in high school.

## Suggested Curriculum in College of Liberal Arts and Sciences

### Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
Zool. 101 .....	5	Zool. 105 .....	5	Bot. 101 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Foreign Language*....	3	Foreign Language*....	3	Foreign Language*....	3
Geog. 100 .....	5	Soc. 101 .....	5	Math. 106 or 111.....	4

### Sophomore Year

Zool. 200 .....	5	Zool. 201 .....	5	Bot. 203 .....	5
Eng. 211 or 212.....	3	Health Ed. 202.....	4	Govt. 101, 231 or	
Hist. 201 .....	5	Eng. 205 or 209.....	3	Ec. 205 .....	5
Chem. 111 .....	5	Chem. 112 .....	5	Chem. 113 .....	5
				Mus. 100 or Art 120...	3

### Junior Year

Zool. 300 .....	5	Bot. 202 .....	5	Zool. 335 .....	5
Chem. 305 .....	4	Chem. 306 .....	4	Chem. 451 .....	4
Physics 106 or Elect...	4	Physics 107 or Elect...	4	Physics 108 or Elect...	4
Phil. 200 or Educ. 206.	4	Electives .....	4	Electives .....	4

### Senior Year

Zool. 320 .....	4	Zool. Electives .....	5	Zool. Electives .....	4
Electives .....	12	Electives .....	12	Electives .....	12

\* Language recommended: French, German, or Russian.

Six hours of Physical Education are required of all students in freshman or sophomore years. Electives must include 3 hours of Practical Arts and Crafts if not taken in high school.

101. **General Vertebrate Zoology.** The salient facts of vertebrate zoology, taking note of evolutionary development. Studies of each chordate class, with special emphasis on the amphibian type. Open to all junior-college students. 5 hours.
105. **General Invertebrate Zoology.** The complex cell, its specialization into various types, and the rise of tissues, organs, and systems characteristic of invertebrates. Zoology 105 to be taken before Zoology 101 or following it, as suits student's convenience. 5 hours.
200. **Comparative Vertebrate Anatomy I.** Comparative studies of skeletal and muscular structures from a phylogenetic and evolutionary aspect. Prerequisite, Zoology 101, or its equivalent. 5 hours.
201. **Comparative Vertebrate Anatomy II.** Comparative studies of the digestive, reproductive, circulatory, and nervous systems of vertebrates. Prerequisite, Zoology 101, or its equivalent. Zoology 201 to be taken before or after Zoology 200, as suits the student's convenience. 5 hours.
210. **General Ornithology.** Recognition of the local birds, and the study of their calls, feeding, nesting, and migratory habits; their relation to human welfare. Cost of field trips, \$10-\$25 per student.
215. **Entomology.** Identification of local insects, the study of their life histories, and their economic importance. Prerequisite, Zoology 105, or its equivalent. 4 hours.
300. **Vertebrate Embryology.** Emphasis placed on the ontogeny of the individual and its relation to vertebrate phylogeny; use of the chick and pig embryos as types. Prerequisite, Zoology 201, or its equivalent. 5 hours.

310. **Animal Ecology.** The study of animals in their habitats, relations, formations, and associations. Cost of field trips, \$10-\$25 per student. Prerequisite, Zoology 335. 4 hours.
315. **Genetics.** A general course involving the principles of evolution and genetics, with experimental work in breeding strains, etc. This course the same as Botany 315. Prerequisite, approval of the department. 5 hours.
- 320 (420). **Histology of Organs.** Microscopic study of organs and tissues, with their origin and development. Prerequisite, one year of Zoology. 4 hours.
- 321 (421). **Histological Technique.** The latest methods of preparing histological material. Prerequisite, one year of Zoology or Botany. 5 hours.
335. **Field Zoology.** A study of local fauna, its taxonomy, and its distribution. Cost of field trips, \$10-\$25 per student. Prerequisites, Zoology 101 and 105, or their equivalents. 5 hours.
351. **Economic Biology.** Effects of plants and animals upon the economic welfare of man. Not to be taken by students who have had Botany or Zoology 350. 4 hours. This course the same as Botany 350.
380. **History of Biology.** A short history of the biological sciences from the early Greek philosophers to the present time. Prerequisites, one year of Zoology and Botany. Not to be taken by anyone who has had Zoology 330. 4 hours. This course the same as Botany 380.
405. **Comparative Anatomy of Invertebrates.** The comparative study of the development of tissues, organs, and systems; and their tendencies in the invertebrates. Prerequisite, Zoology 105, or its equivalent. 4 hours.
406. **Protozoology.** A general consideration of the taxonomy, cytology, reproduction, and physiology of unicellular animals. Laboratory methods of culturing and preparing microscopical slides receive attention. Prerequisite, one year of Zoology. 5 hours.
411. **Advanced Animal Ecology.** A continuation of Zoology 310 with stress on some particular phases of animal relationship, or on the effect of some environmental factor. 4 hours.
422. **Introduction to Research Techniques.** The working out of special problems in technique (beginning research). Prerequisite, Zoology 321, or its equivalent, and special permission from the department. 4 hours.
440. **Experimental Zoology and Endocrinology.** Principles of development and organization of animals by experimental study of living forms. Experiments including regeneration and transplantation of organs and tissues, organization of the egg, effects of external and internal factors in development, with emphasis on glands of internal secretion. Prerequisites, Zoology 300 and Chemistry 306. 5 hours.
470. **Methods in Biology.** A study of methods, consisting of consideration of objectives, different types of courses, teaching the scientific method, the laboratory method, the project method, field studies, measurements, evaluation, and other problems in the teaching of the biological sciences. Lectures, recitations and readings. 4 hours. Winter. This course the same as Botany 470.
500. **Parasitology.** Collection, identification, morphology, life history studies, and control measures for the main groups of the parasites of vertebrate animals. 5 hours.

- 510. Bio-ecology.** A study of the composition and development of biotic communities, and of the relationships of plants and animals to their environment. Cost of field trips \$10-\$25 per student. 5 hours.
- 511. Limnology.** A study of the biology of Crab Orchard Lake, Horse Shoe Lake, and various streams of Southern Illinois. Cost of field trips \$10-\$25 per student. 5 hours.
- 512. Animal Geography.** 5 hours.
- 540. Endocrinology.** Lectures, discussions, and reading on comparative morphology, physiology, and pathology of glands of internal secretion. (Not to be taken by students who have had Zoology 430.) 4 hours.
- 581 (591). Readings in Current Zoological Literature.** 3 hours.
- 590-595. Problems and Research in Zoology (Thesis).** 2-5 hours each term. Not more than 9 hours to be taken from this group.

COLLEGE OF VOCATIONS AND PROFESSIONS

The College of Vocations and Professions was established to serve the needs of those students—

- 1. Seeking a four-year education leading to the bachelor's degree.
- 2. Interested primarily in vocational competence and not in a university degree.

For the students following the four-year course, the programs of study are arranged to give a technical knowledge and understanding, a broad educational background, and the ability to organize and to present technical and professional matters in a clear and convincing manner.

For a student interested in specialized competence rather than a university degree, individualized groupings of courses suited to that student's special needs will be worked out by the department chairmen. Such students should confer with the appropriate department chairman before the registration date, so their cases can be given ample consideration.

Entrance Requirements

A graduate of any recognized four-year high school or academy with fifteen units of secondary work is eligible for admission.

Degrees Granted

The College offers the degree Bachelor of Science in each of the following departments—

Agriculture	Home Economics
Art	Industrial Education
Business	Journalism
Economics	Speech

It also offers the degree, Bachelor of Music, in the Department of Music. Students desiring teacher-training in any of the fields of this college will take their subject matter work here, but they should register in the College of Education.

While a student may choose his field of specialization late in his college career, it is desirable to make the choice early.

Pre-Professional Courses

Pre-Engineering

The student should bring to his counselor a catalog of the school from which he expects to obtain the engineering degree. In general, the schools specify approximately the same courses for the first year, irrespective of the type of engineering training. A suggested curriculum for the work to be taken at this University is as follows:

First Term		Second Term		Third Term	
English 101	3	English 102	3	English 103	3
Chemistry 111	5	Chemistry 112	5	Chemistry 113	5
Math. (Algebra) 111	4	Math. (Trig.) 112	4	Math. (Geom.) 113	5
Ind. Educ. 101	4	Ind. Educ. 106	4		
Physical Educ. 151	2	Physical Educ. 152	2	Physical Educ. 153	2
	18		18		15

At the end of the first year, the student should be able to transfer to almost any engineering college without loss of credits. With careful counselling and guidance from the engineering school catalog, the student should also be able to arrange the second year's program so that, without loss of credit, it will count toward the engineering degree. The program for the second year will normally include

Physics 106 .....	5	Physics 107 .....	5	Physics 108 .....	5
Math. (Cal.) 251.....	4	Math. (Cal.) 252.....	4	Math. (Cal.) 303.....	4
Econ. 205 .....	5	Ind. Educ. 205.....	4	Speech 101 .....	4

Pre-Forestry

The student should bring to his counselor a catalog of the Forestry school from which he expects to obtain a degree.

Pre-Medical Technology

The student should bring to the conference with Dr. Hinrichs the catalog of the school where he expects to finish his training so that the preliminary work taken here can be chosen to best advantage.

Pre-Nursing

The student should bring to Miss Florence E. Denny, the counselor, a catalog of the nursing school she expects to attend after completing her work here. Miss Denny will then help the student outline the best program in each situation.

## AGRICULTURE

Associate Professor Tucker (Acting Chairman); Assistant Professors Clark, Reed.

The Department of Agriculture offers curricula leading to the following degrees:

1. Bachelor of Science in Education.
2. Bachelor of Science (for students in the College of Vocations and Professions).

For a major in Agriculture, a minimum of 48 hours is required.

In addition, the Department offers the first two to three years' work leading toward certification under the Smith-Hughes Law for teaching vocational agriculture. This training must be completed at a Land Grant College.

### Suggested Curriculum in College of Education

(Leading to Degree Bachelor of Science in Education)

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Agr. 105 .....	4	Agr. 124 .....	3	Agr. 102 or 103....	4-5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or		Geog. 100 or		Zool. 105 or 101....	5
Music 100 .....	3	Soc. 101 .....	5	P. E. ....	2
Bot. 101 .....	5	Math. 106 or		Electives .....	2
P. E. ....	2	Phys. 101 .....	4		
		P. E. ....	2		
	<u>17</u>		<u>17</u>		<u>16-17</u>

Sophomore Year					
Chem. 108 .....	5	Agr. 102 or 103....	4-5	Agr. 125 .....	4
Educ. 205 .....	4	Chem. 248 .....	5	Agr. 231 .....	4
Eng. 205, 206, 209,		Economics .....	5	Chem. 258 .....	5
211, or 212.....	3	Eng. 205, 206, 209,		Hist. 201 .....	5
H. Ed. 202.....	4	211, or 212.....	3		
	<u>16</u>		<u>17-18</u>		<u>18</u>

Junior Year					
Agr. 202 .....	4	Agr. 204 .....	5	Agr. 260 .....	3
Eng. 300 .....	3	Agr. 205 .....	5	Agr. 304 .....	3
Govt. 300 .....	5	Educ. 305 .....	4	Agr. 350 .....	4
Electives .....	4	Electives .....	2	Educ. 310 .....	4
	<u>16</u>		<u>16</u>	Electives .....	2
					<u>16</u>

### Suggested Curriculum in College of Vocations and Professions

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Agr. 105 .....	4	Agr. 124 .....	3	Agr. 102 or 103....	4-5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 or		Geog. 100 or		Zool. 105 or 101....	5
Music 100 .....	3	Soc. 101 .....	5	P. E. ....	2
Bot. 101 .....	5	Math. 106 or		Electives .....	2
P. E. ....	2	Physics 101 .....	4		
		P. E. ....	2		
	<u>17</u>		<u>17</u>		<u>16-17</u>

## Sophomore Year

Chem. 108 .....	5	Agr. 102 or 103....	4-5	Agr. 125 .....	4
Eng. 205, 206, 209,		Chem. 248 .....	5	Agr. 231 .....	4
211, or 212.....	3	Eng. 205, 206, 209,		Chem. 258 .....	5
Govt. 101 .....	5	211, or 212.....	3	Hist. 201 .....	5
H. Ed. 202.....	4	Economics .....	5		
	<u>17</u>		<u>17-18</u>		<u>18</u>

## Junior Year

Agr. 202 .....	4	Agr. 204 .....	5	Agr. 260 .....	3
		Agr. 205 .....	4	Agr. 304 .....	3
				Agr. 350 .....	4

- 102. Cereal Crops.** Production and harvesting of common farm crops; improvement; seed purity and germination; grain quality; insects, diseases, weeds, and their control. Prerequisite, Botany 101. 5 hours. Usually Winter Quarter.
- 103. Forage Crops.** Adaptation, culture, and utilization of grasses and legumes used chiefly for forage, and their place in crop rotation. Prerequisite, Botany 101. 4 hours. Usually Spring Quarter.
- 105. Animal Husbandry.** A general survey of the industry, including the study of horses, mules, beef cattle, sheep, and hogs; laboratory work in judging. 4 hours. Usually Fall Quarter.
- 124. Fruit Crops.** Fundamentals of propagation and growing of fruit for home use. 3 hours. Usually Winter Quarter.
- 125. Poultry Production.** Breeds, breeding, culling, incubation, brooding, housing, feeding, management, disease control, and marketing of poultry. 4 hours. Usually Spring Quarter.
- 202. Farm Soils.** Soil formation, drainage, acidity, conservation; crop rotation; conservation and utilization of farm manure; liming; chemical deficiencies; soil testing; legumes and nitrogen-fixing bacteria; fertilizers and their application; and practical use for individual crops. Prerequisite, Organic Chemistry. 4 hours. Usually Winter Quarter.
- 204. Agricultural Economics.** Relation of production to domestic and foreign demand for agricultural products; agricultural finance; prices, marketing, taxation, farm accounts; social relationships. 5 hours. Usually Winter Quarter.
- 205. Principles of Feeding.** Principles of animal nutrition as applied to the feeding of domestic animals. Prerequisites, Agriculture 105 or equivalent, and Organic Chemistry. 4 hours. Usually Spring Quarter.
- 215 (112). Small Fruits.** Production of strawberries, brambles, grapes, and miscellaneous small fruits. Prerequisite, Agriculture 124, and Botany 101. 4 hours.
- 231 (131). Dairy Husbandry.** Introductory work, including selection of dairy animals, herd improvement, milk secretion, manufacture of dairy products. 4 hours. Usually Spring Quarter.
- 260 (160). Vegetable Gardening.** Home garden sites and sizes, soils and fertilizers, hot beds and cold frames, varieties, transplanting, tillage, pest control, harvesting and storing. 3 hours. Usually Spring Quarter.
- 303. Surveying.** Chaining, surveying, mapping, and use of the level and other equipment; dimensions and planning of building foundations; drainage of fields, tiling, dam and pond construction; irrigation; gully control; land clearing. Prerequisite, Mathematics or Physics. 4 hours.

304. **Landscape Gardening.** Planning for efficiency in site use, and landscaping of home and school ground; simple landscape design for home, farm, and public site with regard to area adaptation. 3 hours.
305. **Soil Conservation.** A practical course to aid teachers in an understanding of local soil and farm problems; emphasis upon conservation of the soil and control of gulleys. 4 hours.
309. **Agricultural Education.** Methods of teaching general agriculture in secondary schools. Prerequisites, 16 hours in Education, and 16 hours in Agriculture. 4 hours.
320. **Advanced Poultry Production.** A study of the problems of the poultryman and breeder; special consideration given to breeding, feeding, broiler and egg production, and management. Prerequisite, Agriculture 125. 4 hours.
- 324 (212). **Orcharding.** The principles of fruit growing, with special reference to commercial orchards; physiology, orchard practices, pest control, harvesting and marketing; peach and apple cultures of primary concern. Field trips. Prerequisites, Botany 101, and Agriculture 124. 4 hours.
325. **Pests of Fruit and Vegetables.** Identification, life history, and practical methods of control of important pests of horticulture crops. Prerequisites, Agriculture 124, 260, or equivalent. 4 hours.
326. **Diseases of Cereal and Forage Crops.** Study of the life history, identification, and practical methods of control of important diseases of cereal and forage crops. Prerequisites, 102 and 103. (Given upon request.) 4 hours.
330. **Dairy Production.** Milk production; herd management; feeding; breeding; calf raising; records and production testing; buildings and equipment; sanitation; common ailments; disease problems; dairy farm practices. Prerequisite, Agriculture 231. 4 hours.
334. **Preservation and Processing of Agricultural Products.** A study of principles involved in canning, freezing, drying, and fermentation of foods and feeds. Prerequisite, 3 courses in Agriculture or Home Economics. 4 hours.
350. **Farm Management.** Land use, enterprise coordination, field and farmstead arrangement, and their combination for farm profit. Prerequisites, Agriculture 102, 105, and 204, or equivalent. 4 hours. Usually Spring Quarter.
- 365 (265). **Swine Production.** Breeds, breeding, feeding, and management of swine. Prerequisite, Agriculture 205. 4 hours.
375. **Farm Shop.** The set-up of the farm work shop, selection of tools and machines, care and use of tools for general repair work; the value of construction and repair as related to the farm income. 4 hours.
- 380 (280). **Sheep Production.** Breeds, breeding, feeding, and management of sheep, and a study of mutton and wool. Prerequisite, Agriculture 205. 4 hours.
- 385 (285). **Beef Production.** Breeds, breeding, feeding, and management of beef and dual-purpose cattle. Prerequisite, Agriculture 205. 4 hours.
390. **Special Studies in Agriculture.** Assignments involving research and individual problems. Approval of department chairman required. 4 hours.
391. **Advanced Problems in Agriculture.** Assignments involving research and individual studies of a higher specialized nature. Approval of the department chairman required. 4 hours.

ART

Assistant Professors Farnham, Roach, Watkins (Acting Chairman); Instructor Ervin.

The Department offers curricula leading to the Bachelor's degree in all of the three colleges of the University.

- 1. Bachelor of Science in Education.
- 2. Bachelor of Arts (for students in the College of Liberal Arts and Sciences). Major in Art History.
- 3. Bachelor of Science (for students in the College of Vocations and Professions). Majors in Design; Drawing and Painting; Sculpture and Ceramics.

The type of program that the student elects should be determined by his ultimate objective. Students desiring a general cultural knowledge of art or expecting to undertake graduate work should take their major in the College of Liberal Arts and Sciences. Students seeking professional training should select a major in the College of Vocations and Professions. Students planning to teach art in secondary schools should enroll in the College of Education.

Suggested Curriculum in College of Education

(Art Education Major)

Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Art 110 .....	4	Art 111 .....	4	Art 112 .....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bot. 101 or Zool. 101	5	Govt. 101 .....	5	Chem. or Phys. 101.	4
Math. 106 .....	4	Math. 107 or 120...	4	Soc. 101 .....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	<u>17-18</u>		<u>17-18</u>		<u>17-18</u>

Sophomore Year

Art 135, 250, or 260 .....	3-4	Art 136, 251, or 261.	3-4	Art 137, 252, or 262.	3-4
Art 225 .....	4	Art 226 .....	4	Art 227 .....	4
Hist. 201 or 202....	5	Educ. 205 .....	4	Eng. 209, 211, or 212	3
P. E. (Women)....	1	Eng. 205 .....	3	I. Ed. 101 or	
Electives .....	3	P. E. (Women)....	1	Bus. Ad. 102....	3-4
	<u>16-17</u>		<u>15-16</u>	P. E. (Women)....	1
					<u>14-16</u>

Junior Year

Art 300 .....	4	Art 311 .....	4	Art 280 .....	3
Econ. 205 .....	5	Educ. 305, 306, or 345 .....	4	Educ. 315 .....	4
Eng. 300 .....	3	H. Ed. 202.....	4	Educ. 331 .....	4
Electives .....	4	Electives .....	4	Electives .....	6
	<u>16</u>		<u>16</u>		<u>17</u>

Senior Year

Art Electives .....	3-4	Art Electives .....	3-4	Art Electives .....	3-4
Educ. 310 .....	4	Stud. Tchg. ....	4	Stud. Tchg. ....	4
Stud. Tchg. ....	4	Electives .....	8	Electives .....	10
Electives .....	6		<u>15-16</u>		<u>17-18</u>
	<u>17-18</u>				

Suggested electives: 24 hours in minor subject approved by major professors; one year of foreign language.

## Suggested Curriculum in College of Liberal Arts and Sciences

(Major in Art History)

## Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bot. 101 or Zool. 101 .....	5	Hist. 102 .....	3	Art 120 .....	3
Hist. 101 .....	3	Phys. 101 or		Geog. 100 .....	5
Math. 106 .....	4	Chem. 101 .....	4	Phys. 102 or	
P. E. ....	1-2	Soc. 101 .....	5	Chem. 102 .....	4
	<u>16-17</u>	P. Ed. ....	1-2	P. E. ....	1-2
			<u>16-17</u>		<u>16-17</u>

## Sophomore Year

Art 225 .....	4	Art 226 .....	4	Art 227 .....	4
Eng. 209 .....	3	Eng. 212 .....	3	Hist. 210 .....	5
Ger. 101 or Fr. 101. ....	3	Ger. 102 or Fr. 102. ....	3	Ger. 103 or Fr. 103. ....	3
Econ. 205 .....	5	P. E. (Women) ....	1	Health Ed. 202 ....	4
P. E. (Women) ....	1	Electives .....	6	P. E. (Women) ....	1
	<u>15-16</u>		<u>16-17</u>		<u>16-17</u>

## Junior Year

Art 341 .....	4	Art 311 .....	4	Art 343 .....	4
Art 345 .....	4	Art 342 .....	4	Art 346 .....	4
Hist. 305 .....	3	Philosophy 345 ....	4	Hist. 415 .....	3
Electives .....	5	Electives .....	4	Electives .....	5
	<u>16</u>		<u>16</u>		<u>16</u>

## Senior Year

Art 355 .....	3	Art 361 .....	4	Art 362 .....	4
Art 360 .....	4	Mus. 337 .....	3	Art 363 .....	4
Electives .....	9	Electives .....	8	Electives .....	7
	<u>16</u>		<u>15</u>		<u>15</u>

Electives must include 3 hours of Practical Arts and Crafts if these were not taken in high school.

## Suggested Curriculum in College of Vocations and Professions

(Major in Design and Advertising Art)

## Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Art 110 .....	4	Art 111 .....	4	Art 112 .....	4
Art 125 .....	3	Bus. 102 .....	3	Math. 107 or 120... ..	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bot. 101 or Zool. ....	5	Math. 106 .....	4	Soc. 101 .....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	<u>16-17</u>		<u>15-16</u>		<u>17-18</u>

Sophomore Year					
Art 245 .....	4	Art 246 .....	4	Art 247 .....	4
Eng. 205 or 209....	3	Govt. 231 .....	5	Educ. 206 .....	4
Journ. 100 .....	2	I. E. 101.....	4	Hist. 201 .....	5
Physics or		P. E. (Women)....	1	P. E. (Women)....	1
Chem. 101 .....	4	*Electives <sup>2</sup> .....	4	*Electives <sup>3</sup> .....	4
P. E. (Women)....	1				
*Electives <sup>1</sup> .....	4		17-18		17-18
	17-18				

Junior Year					
Art 215 .....	4	Art 216 .....	4	Art 217 .....	4
Art 250 .....	4	Art 275 .....	5	Art 343 .....	4
Art 341 .....	4	Art 342 .....	4	Econ. 205 .....	5
Eng. 209, 211, 212..	3	*Electives <sup>4</sup> .....	4	Health Ed. 202....	4
Electives .....	3		17		17
	18				

Senior Year					
Art 345 .....	4	Art 346 .....	4	Art 352 .....	4
Art 350 .....	4	Art 351 .....	4	Art 375 .....	5
Philosophy 316 ....	4	Journ. 303 .....	3	Journ. 307 .....	3
*Electives <sup>5</sup> .....	6	Philosophy 345 ....	4	*Electives <sup>6</sup> .....	6
	18	Electives .....	3		18
			18		

- \* Suggested Electives: <sup>1</sup> Spanish 101  
<sup>2</sup> Spanish 102, Ind. Ed. 221  
<sup>3</sup> Spanish, 103, Ind. Ed. 204  
<sup>4</sup> Art 251  
<sup>5</sup> Art 371  
<sup>6</sup> Art 252

Suggested Curriculum in College of Vocations and Professions  
(Major in Drawing and Painting)

Fall		Winter		Spring	
	Hours		Hours		Hours
Art 105 .....	3	Art 106 .....	3	Art 107 .....	3
Art 110 .....	4	Art 111 .....	4	Art 112 .....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bot. 101 or		Math. 106 .....	4	Math. 107 or 120...	4
Zool. 101 .....	5	P. E. ....	1-2	P. E. ....	1-2
P. E. ....	1-2		15-16		15-16
	16-17				

Sophomore Year					
Art 245 .....	4	Art 246 .....	4	Art 247 .....	4
Art 250 .....	4	Art 251 .....	4	Art 252 .....	4
Physics 101 or		Soc. 101 .....	5	Hist. 201 .....	5
Chem. 101 .....	4	I. E. 101 or		Music 100 .....	3
Eng. 205 .....	3	B. A. 102.....	3-4	P. E. (Women)....	1
P. E. (Women)....	1	P. E. (Women)....	1		
	15-16		16-18		16-17

Junior Year					
Art 225 .....	4	Art 226 .....	4	Art 227 .....	4
Art 320 .....	4	Art 321 .....	4	Art 322 .....	4
Econ. 205 .....	5	Govt. 231 .....	5	Electives .....	8
Eng. 209, 211, or		Health Ed. 202....	4		16
212 .....	3		17		
	16				

Senior Year					
Art 341 .....	4	Art 342 .....	4	Art 343 .....	4
Art 325, 350, 371...	4-5	Art 326, 351, 372...	4-5	Art 327, 352, 373...	4-5
Art 345 .....	4	Art 346 .....	4	Electives .....	8
Electives .....	4-5	Electives .....	4-5		16-17
	17		17		

Recommended electives: Art 135, 136, 137; Philosophy 300, 345; Education 206; Foreign Languages 101, 102, 103. (This sequence plus a philosophy or psychology course leads to the Bachelor of Arts degree.)

## Suggested Curriculum in College of Vocations and Professions

(Major in Sculpture and Ceramics)

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Art 105 .....	3	Art 111 .....	4	Art 112 .....	4
Art 110 .....	4	Math. 106 or		Music 100 .....	3
Eng. 101 .....	3	Chem. 101 .....	4	Math. 107, 120, or	
Bot. 101 or		Eng. 102 .....	3	Chem. 102 .....	3
Zool. 101 .....	5	I. E. 101.....	4	Eng. 103 .....	3
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	<u>16-17</u>		<u>16-17</u>		<u>15-16</u>
Sophomore Year					
Art 245 .....	4	Art 246 .....	4	Art 247 .....	4
Art 260 .....	4	Art 261 .....	4	Art 262 .....	4
Eng. 205, or 209....	3	Physics 101 .....	4	Soc. 101 .....	5
P. E. (Women)....	1	P. E. (Women)....	1	P. E. (Women)....	1
Art 135 .....	3	Art 136 .....	3	Art 137 .....	3
	<u>14-15</u>		<u>15-16</u>		<u>16-17</u>
Junior Year					
Art 225 .....	4	Art 226 .....	4	Art 227 .....	4
Eng. 209, 211, or		Econ. 205 .....	5	Govt. 231 .....	5
212 .....	3	Hist. 201 .....	5	H. Ed. 202.....	4
Educ. 206 .....	4	*Electives <sup>2</sup> .....	3	*Electives <sup>3</sup> .....	3
*Electives <sup>1</sup> .....	6		<u>17</u>		<u>16</u>
	<u>17</u>				
Senior Year					
Art 390 or 302.....	3	Art 391 or 303.....	3	Art 392 or 304.....	3
Art 393 .....	5	Art 394 .....	5	Art 395 .....	5
*Electives <sup>4</sup> .....	8	*Electives <sup>5</sup> .....	8	*Electives <sup>6</sup> .....	8
	<u>16</u>		<u>16</u>		<u>16</u>

\* Recommended Electives: <sup>1</sup> Art 302; Foreign Language.<sup>2</sup> Art 303, or Foreign Language.<sup>3</sup> Art 304, or Foreign Language.<sup>4</sup> Art 345; Philos. 300.<sup>5</sup> Art 346; Philos. 345.<sup>6</sup> Art 311; Art 355.

105, 106, 107. **Drawing.** Introduction to charcoal, pastel, pencil, and pen ink. Farnham. 3 hours each. A year's sequence.

110, 111, 112. **Basic Design.** Study of design principles fundamental to all concepts of visual expression, combined with experiments in various media. Ervin. 4 hours each. A year's sequence.

120. **Art Appreciation.** A survey course illustrated with lantern slides and colored prints, and treating painting, sculpture, and architecture. Course fills the requirement in Art for non-majors. Roach. 3 hours. Fall, winter, spring, summer.

125. **Lettering.** Fundamentals of the art, with practice to meet modern advertising requirements. No prerequisite. 3 hours. Fall.

135, 136, 137. **Pottery.** The study and practice of various techniques in the use of clay and glazes. Watkins. 3 hours each. A year's sequence.

215, 216, 217. **Advanced Design.** Block-printing and engraving, silk screen process with color theory, 3-dimensional design theory and application. Prerequisite, 112. Ervin. 4 hours each. A year's sequence.

225. **History of Architecture.** General survey of the development of architecture from earliest times; its relationship to that of the present. Roach. 4 hours. Fall.

226. **History of Sculpture.** General survey of the development of sculpture in terms of the cultures which produced it. Roach. 4 hours. Winter.
227. **History of Painting.** General survey of the development of painting as an expression of the various cultures which produced it; its relationship to modern painting. Roach. 4 hours. Spring.
- 245, 246, 247. **Figure Drawing.** Drawing from model in various graphic media; figure composition. Ervin. 4 hours each. A year's sequence.
- 250, 251, 252. **Beginning Painting.** Elementary picture-building from the standpoint of modern pictorial design. Non-objective, abstract, and realistic. Still life, figure, and landscape. Media: water color and oil. Prerequisite, 6 hours Drawing. Farnham. 4 hours each. A year's sequence.
- 260, 261, 262. **Beginning Sculpture.** Modeling and casting. Prerequisite, 112. Watkins. 4 hours each. A year's sequence.
275. **Advertising Art.** Problems of the visualizer and layout artist in newspaper and magazine advertising. Application to advertising campaigns. Prerequisite, for majors, Art 112, 125, 245; for non-majors, Art 110, 125. 5 hours. Winter.
280. **Descriptive Drawing.** Designed for biology, geography, and history students. Maps, relief drawings, museum materials, etc. Offered on demand only. 3 hours. Winter.
- 302, 303, 304. **Advanced Ceramics.** Problems in designing for moulds, firing, and glazing. Prerequisite, Art 137. Watkins. 3 hours each. A year's sequence.
311. **Theories and Techniques of Art.** Lectures and experiments concerning the use of artist's materials. Required for art history majors. Offered alternate years only. (Not offered 1949-50.) 4 hours.
- 320, 321, 322. **Advanced Painting.** Advanced work, with some stress on idea-content and mood. Non-objective, abstract, and realistic. Still life, figure and landscape. The various techniques of painting. Prerequisite, Art 252, 9 hours drawing. Farnham. 4 hours each. A year's sequence.
- 325, 326, 327. **Composition Studio Course.** Student's choice of own project in a selected medium of painting. Prerequisites, three courses in painting and three courses in drawing. Farnham. 4 hours each. A year's sequence.
341. **History of Ancient Art.** Prerequisites, Art 225, 226, 227. 4 hours. Fall.
342. **History of Medieval Art.** Prerequisite, Art 341. 4 hours. Winter.
343. **History of Renaissance Art.** Prerequisite, Art 342. 4 hours. Spring.
345. **Nineteenth and Twentieth Century Painting and Sculpture.** Modern movements in art. Prerequisite, Art 227. 3 hours. Winter.
346. **Contemporary Painting and Sculpture.** Prerequisite, Art 345. 3 hours.
- 350, 351, 352 (405). **Advanced Studio.** Student working on his special project in a class engaged in similar activity. Fourth year majors only. Staff. 4 hours each.
355. **Art Criticism.** Principles of art. Special reference to critical analysis. Prerequisite, Art 311, 346. 3 hours. Fall.

- 371, 372, 373. **Portrait Painting.** The painting of the head, using the model as source for interpretive statement and creative design. Prerequisites, three courses in painting and three courses in drawing. Fourth year majors only. Medium: oil. Farnham. 5 hours each. A year's sequence.
375. **Design for Advertising.** Advanced study in the preparation of art work for printing and reproduction. Use of silk screen process in advertising. Prerequisites, Art 275, 245, 246, 247. 5 hours. Spring.
- 381, 382, 383, 384. **Seminar in the History of Art.** 5 hours each. Fall, Winter, Spring, Summer. (For Art History majors only.)
- 385, 386, 387. **Weaving.** Roach. 3 hours each. A year's sequence.
- 390, 391, 392. **Ceramic Sculpture.** Various methods in constructing clay sculptures, firing, and glazing. Prerequisites, Art 137, 262. Watkins. 3 hours each. A year's sequence.
- 393, 394, 395. **Advanced Sculpture.** Modeling, casting, and carving. Clay, plastics, wood, stone. Prerequisite, Art 262. Watkins. 3 hours each. A year's sequence. (Offered in alternate years only. Not offered 1949-50.)

BUSINESS ADMINISTRATION

Professors Rehn, Scott (Chairman); Associate Professor DuFrain; Assistant Professors Barron, Buboltz, Matthies, Morrison, Ogden; Instructor Chapman.

The Department of Business Administration aims to meet effectively the needs of young men and women preparing themselves, through vocational and professional training, for entry into the various fields of business. The curricula include, in addition to the technical subjects, cultural studies, designed to develop useful and intelligent members of society as well as successful business men and women.

The Department offers work in the following fields, leading to the degrees:

- 1. Bachelor of Science in Education.
- 2. Bachelor of Science. For students of the College of Vocations and Professions who major in—
  - Accounting
  - Finance
  - General Business
  - Merchandising
  - Secretarial Training.

In addition to welcoming the students seeking a degree, the department welcomes those students who are interested in only one course, or in a few courses. Such students should confer with the chairman of the department in advance of the registration date.

Suggested Curriculum in College of Vocations and Professions  
(Business Administration)

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Bus. Ad. 171.....	4	Eng. 102 .....	3	Bus. Ad. 102*.....	3
Eng. 101 .....	3	Geog. 210b .....	5	Eng. 103 .....	3
Math. 106 .....	4	Math. 107 .....	4	Govt. 101 .....	5
Speech 101 .....	4	Mus. 100 or Art 120.	3	Physics or	
P. E. ....	1-2	P. E. ....	1-2	Chem. 101 .....	4-5
	16-17		16-17	P. E. ....	1-2
					16-18

Sophomore Year

Bus. Ad. 251.....	4	Bus. Ad. 252.....	4	Bus. Ad. 253.....	4
Econ. 200 .....	3	Econ. 201 .....	3	Bus. Ad. 271.....	4
Eng. 205 .....	3	Eng. 209 or 212....	3	Econ. 202 .....	3
Zool. or Bot. 101...	5	H. Ed. 202.....	4	Hist. 202 .....	5
P. E. (Women)....	1	P. E. (Women)....	1	P. E. (Women)....	1
		Electives .....	3		
	15-16		17-18		16-17

Junior Year

Bus. Ad. 371.....	4	Bus. Ad. 370.....	5	Bus. Ad. 320.....	5
Bus. Ad. 330.....	5	Bus. Ad. 372.....	4	Bus. Ad. 373.....	4
Econ. 307 .....	4	Bus. Ad. 377.....	4	Econ. 407 .....	3
Econ. 315 .....	4	Bus. Ad. 375.....	4	Electives .....	4
	17		17		16

Senior Year

During this year the student may elect to pursue the course in General Business, or he may choose to specialize in Accounting, Finance, or Merchandising. The particular subjects he will study will be determined in conference with the department chairman.

\* Students who pass an appropriate examination will not be required to take this course in residence at Southern but may elect a course in its place.

Suggested Curriculum in College of Vocations and Professions  
(Secretarial Training)

Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Bus. Ad. 102.....	3	Bus. Ad. 103.....	3	Bus. Ad. 104.....	3
Bus. Ad. 105.....	4	Bus. Ad. 106.....	4	Bus. Ad. 107.....	4
Eng. 101 .....	3	Eng. 102 .....	3	Bus. Ad. 171.....	4
Math. 106 .....	4	Math. 107 .....	4	Eng. 103 .....	3
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	15-16		15-16		15-16

Sophomore Year

Bus. Ad. 271.....	4	Bus. Ad. 213.....	3	Bus. Ad. 216.....	3
Art 120 or Mus. 100.	3	Eng. 205 or 211....	3	Eng. 209 or 212....	3
Chem. 101 or		Geog. 210b .....	5	Govt. 101 .....	5
Physics .....	4-5	H. Ed. 202.....	4	Hist. 202 .....	5
Zoology or Bot. 101.	5	P. E. (Women)....	1	P. E. (Women)....	1
P. E. (Women)....	1				
	16-17		15-16		16-17

Junior Year

Bus. Ad. 251.....	4	Bus. Ad. 252.....	4	Bus. Ad. 253.....	4
Bus. Ad. 371.....	4	Bus. Ad. 310.....	3	Bus. Ad. 311.....	3
Bus. Ad. 308.....	3	Bus. Ad. 372.....	4	Bus. Ad. 373.....	3
Econ. 200 .....	3	Econ. 201 .....	3	Econ. 202 .....	3
Electives* .....	3	Electives* .....	3	Electives* .....	3
	17		17		16

Senior Year

Bus. Ad. 312.....	3	Bus. Ad. 320.....	5	Bus. Ad. 307.....	3
Bus. Ad. 330.....	5	Bus. Ad. 375.....	4	Bus. Ad. 309.....	3
Econ. 307 .....	4	Econ. 355 .....	3	Bus. Ad. 334.....	4
Electives* .....	4	Electives* .....	4	Electives* .....	5
	16		16		15

\* Electives are chosen upon the advice of the department chairman. Suggested electives are Business 327, 333, and 370, and Economics 315.



**Accounting\***

- 251, 252, 253 (205, 206, 207). **Elementary Accounting I, II, III.** Study of principles and practices in handling simple transactions in books of original entry and books of accounts—trial balances, adjustments, and financial statements. Barron, Matthies, Ogden. 4 hours. Fall, Winter, Spring.
- 351, 352, 353 (305, 306, 307). **Advanced Accounting I, II, III.** Study of accounting principles and procedures for the preparation of adequate financial statements. Special attention given covering depreciation, appraisals, investments, intangibles, installment sales, consignments, branch accounts, compound interest in relation to accounting for sinking funds, annuities, leaseholds, and bonds. Preparation and use of special statements, application of funds, statement of affairs, and consolidated statements. Prerequisite, Business Administration 253. Barron. 4 hours each. Fall, Winter, Spring.
- 354a (338). **Cost Accounting.** Departmental, job order, and process cost. Accumulation of material and labor costs; factory overhead and its allocation; cost reports to executives—their preparation and use. Prerequisite, Business Administration 253. Matthies. 5 hours. Fall.
- 354b. **Advanced Cost Accounting.** Study of standard costs and distribution costs. Special problems in cost accounting, including joint product, by-product, and capacity costs. Prerequisite, Business Administration 354a. Matthies. 4 hours. Winter.
355. **Governmental Accounting.** Budgeting and operating fund accounts, with emphasis on accounting control as a means of improving administration of public enterprises. Prerequisite, Business Administration 353. Ogden. 3 hours. Spring.
- 356 (340). **Auditing.** Procedures and practices of public accountants in verifying accounts and supplementary data; training in preparation and analysis of reports. Laboratory method used. Prerequisite, Business Administration 353. Matthies. 5 hours. Spring.
- 357a (345, 445). **Tax Accounting.** Study of accounting principles and procedures for meeting requirements of current laws and regulations which relate to federal income tax and social security taxes. Laboratory problems and preparation of tax reports. Prerequisite, Business Administration 353. Matthies. 4 hours. Fall.
- 357b. **Problems in Federal Taxation.** Continuation of 357a, with problem material in income, estates, and gift taxes as they affect individuals and various forms of business organization. Prerequisite, Business Administration 357a. Matthies. 4 hours. Winter.
358. **Accounting Systems.** Problems in system design and installation. Practice in system design. Prerequisite, 18 hours in accounting. Barron. 4 hours. Spring.
359. **Income Taxes for Individuals.** Federal income tax law as applied to individuals. No credit for Business Administration majors in Vocations and Professions. Prerequisite, Business Administration 253, or equivalent. Matthies. 3 hours. Winter.

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\* The student will purchase the laboratory manuals used in the various courses in Accounting, and also the text used in Accounting 357.

### Finance

- 320 Financial Management.** Financial structure in industry, sources of capital, regulation of securities by stock exchanges and the Security and Exchange Commission; dividend and other financial policies. Interpreting corporation reports and evaluating securities through the analysis of financial statements. Prerequisites, Business Administration 253, Economics 202. Scott. 5 hours. Winter.
- 323. Investments.** Survey of the problems and procedures of investment management; types of investment risks; security analysis; investment problems of the individual as well as of the corporation. Prerequisite, Business Administration 320. 4 hours. Buboltz. Spring.
- 327 (365). Insurance.** Underlying principles and functions of insurance in the economic life of the individual and of business. Prerequisites, Economics 202 or 206, Business Administration 353. Chapman. 4 hours. Fall.

### General Business

- 170. Introduction to Business Administration.** A survey of business, intended to give to the student a general knowledge of the modern business world, a better basis for choosing his specialty, and certain information not covered in the various specialized courses offered. Chapman, Rehn. 4 hours. Fall, Winter, Spring.
- 271 (221). Business English.** Practice in writing typical kinds of business correspondence. Prerequisite, English 103. DuFrain. 4 hours. Fall, Winter, Spring.
- 370 (321). Production Management.** Plant location, design, and construction; internal organization for operations; production control, stores control, routing of materials, job analysis, and time study; wage systems; subdivision of executive responsibilities and duties; methods of co-ordination and planning. Prerequisite, Economics 202 or 205. Rehn. 5 hours. Spring.
- 371, 372, 373 (210, 211, 212). Business Law I, II, III.** Legal problems in normal business relations, including the law of contracts, agency, sales, bailments, negotiable instruments, insurance, private property, and business organizations. Scott. 4 hours each. Fall, Winter, Spring.
- 374 (322). Time and Motion Study.** Principles and methods for simplifying work and establishing sound time-allowances for performance. Rehn. 2 hours.
- 375 (465). Personnel Management.** Relation of the human element to production; the art of securing understanding and cooperation; employee organizations and outside activities; work of the personnel department; wage standards and working conditions. Prerequisites, Economics 202. Morrison. 4 hours. Winter.
- 377. Government and Business.** Statutes and court interpretation of the federal and state law designed to control, regulate, and aid business. Prerequisite, Economics 202.
- 475. Budgeting and System.** Budgeting and systems as aids in coordinating and directing business operation. Prerequisites, Business Administration 253 and 320. Rehn. 4 hours.
- 479 (499). Problems in Business and Economics.** Application of economic theory to practical business problems. Open to majors in Business Administration or Economics, who have senior standing. Rehn. 4 hours.

### Merchandising

- 330 (336). **Marketing Management.** Marketing functions, diversity of marketing methods; price factors and price policies; policies as to service, distribution, and brands; market research, sales analysis, and forecasting; ethics of buying and selling. Prerequisite, Economics 202. Chapman. 5 hours. Fall.
- 331 (325). **Transportation.** Evolution of American transportation systems, and of the current problems of transportation facilities in connection with governmental control and regulation. Prerequisite, Economics 202. Morrison. 4 hours. Fall.
- 332 (360). **Retail Store Management.** History of retailing, the functions of the retailer, and of the factors in the efficient operation of retail establishments. Problems of managing a retail store, and of the control and measurement of efficiency. Prerequisite, Business Administration 330. Chapman. 4 hours. Winter.
333. **Principles of Advertising.** Advertising fundamentals in relation to modern business activities; fields of advertising; advertising media, campaigns, and systems. Prerequisite, Business Administration 330. Chapman. 4 hours. Spring.
334. **Credits and Collections.** Organization and operation of the credit department, including the sources and analysis of credit information, collection methods, and correspondence. Retail credit management emphasized. Prerequisite, Business Administration 330. Chapman. 4 hours. Spring.
337. **Principles of Salesmanship.** History, scope, and importance of selling in modern business; the sales department; the salesman's part in the selling process. Prerequisite, Business Administration 330. Chapman. 4 hours. Winter.

### Secretarial Training

Appropriate placement tests are required of all students who wish to take Typewriting or Shorthand for credit. It is the responsibility of students to watch the schedules of these examinations and to qualify, through them, for placement before registering for credit in these courses.

- 102, 103, 104. **Typewriting I, II, III.** Development of touch typewriting skill in straight copy at a speed satisfactory to the instructor; acquisition of related technical information. Development of techniques incidental to business letter writing, stencil cutting, tabulation, rough draft, manuscripts, and legal forms. A minimum speed requirement of 45 net words required in Typewriting III. Buboltz, DuFrain. 3 hours each. Fall, Winter, Spring.
- 105, 106, 107. **Shorthand I, II, III.** Development of skill in writing Gregg shorthand at the average rate of 100 words per minute, with minor emphasis on theory and the development of an extensive vocabulary. Upon completion of 107, credit for shorthand applied toward graduation in the College of Vocations and Professions, and with business majors in the College of Education. Buboltz, DuFrain. 4 hours each. Fall, Winter, Spring.
213. **Typewriting IV.** A continuation of Typewriting III. Prerequisite, Business Administration 104, or 1½-2 units in high school. Buboltz, DuFrain. 3 hours. Winter.
216. **Shorthand IV.** A continuation of Shorthand III. Prerequisite, Business Administration 107, or 1½-2 units in high school. Buboltz, DuFrain. 4 hours. Spring.

- 302 (315). The Teaching of Typewriting.** Methods, materials, tests, programs, and other aspects of the teaching of typewriting in high schools. Prerequisite, Business Administration 104 or equivalent. DuFrain. 3 hours.
- 303 (318). The Teaching of Shorthand.** Methods, materials, tests, programs, and other aspects of the teaching of shorthand in high schools. Prerequisite, Business Administration 216 or equivalent. DuFrain. 3 hours.
- 304. The Teaching of Basic Business Subjects.** Methods, materials, tests, programs, and other aspects of the teaching of high school business subjects other than typewriting and shorthand. Prerequisites Business Administration 252, 373, 330, and Economics 202 and 355. DuFrain. 3 hours.
- 307. Secretarial Practice.** A finishing course for secretaries. Content of the course covering topics that will help the stenographer advance to the rank of private secretary—such topics as the beginning secretary, personality and office relationships, and business reports. Prerequisites, Business Administration 213 and 216 or their equivalents. Buboltz, DuFrain. 3 hours. Spring.
- 308 (314). Transcription.** An integration of shorthand, typewriting, and English. Prerequisite, permission of instructor. Buboltz. 4 hours. Fall.
- 309. Advanced Transcription.** Continuation of 308. Buboltz. 4 hours. Spring.
- 310 (341). Office Machines.** Modern office machines, with intensive practice on typical calculating, voice-writing, and duplicating machines. Emphasis on theory and practice of mathematical operations and short-cuts. Four class periods per week and five additional practice periods. Prerequisite, Business Administration 104, or permission of instructor. DuFrain. 3 hours. Winter.
- 311. Office Filing and Classification.** Modern filing systems and equipment, with intensive practice in applying indexing rules and in filing correspondence. Emphasis upon classification principles and practices. Four class periods per week and five additional practice periods. Prerequisite, Business Administration 104. DuFrain. 3 hours. Spring.
- 312. Office Management.** Application of the principles of management to the office problems, with the purpose of giving the secretary an understanding of office work from the management viewpoint. Prerequisite, permission of instructor. DuFrain. 3 hours. Fall.

## ECONOMICS

Professors Maverick (Chairman), J. W. Scott; Associate Professors Miles, Pitkin; Assistant Professor Morrison; Instructor Baker.

The Department offers a major in Economics, which may be elected by a student in any one of the three undergraduate colleges. These majors lead to the following degrees:

1. Bachelor of Science in Education.
2. Bachelor of Arts (for students in the College of Liberal Arts and Sciences).
3. Bachelor of Science (for students in the College of Vocations and Professions).

The Department also participates in the "field major in social studies", and in the "field minor in Latin-American relations", both in the College of Education.

## Suggested Curriculum in College of Vocations and Professions

## Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Math. 111 .....	4	Math. 112 .....	4	Math. 113 .....	4
Geog. 100 .....	5	Eng. 101 .....	3	Eng. 102 .....	3
Zool. or Bot. ....	5	Music or Art. ....	3	Soc. 101 .....	5
P. E. ....	1-2	Physics or Chem. .	4	P. E. ....	1-2
		P. E. ....	1-2	Electives .....	2
	<u>15-16</u>		<u>15-16</u>		<u>15-16</u>

## Sophomore Year

Econ. 200 .....	3	Econ. 201 .....	3	Econ. 202 .....	3
Bus. Ad. 251 .....	3	Bus. Ad. 252 .....	3	Bus. Ad. 253 .....	3
Eng. 103 .....	3	Eng. 205, 209, 206,		Educ. 206 .....	4
Hist. 201 or 202 ..	5	211, or 212 .....	3	H. Ed. 202 .....	4
P. E. (Women) ....	1	Geog. 210 .....	5	P. E. (Women) ....	1
Electives .....	2	P. E. (Women) ....	1	Electives .....	2
	<u>16-17</u>	Electives .....	2		<u>16-17</u>
			<u>16-17</u>		

## Junior Year

Econ. 307 .....	4	Econ. 317 .....	3	Econ. 318 or 345 ...	3-4
Econ. 315 .....	4	Govt. 231 .....	5	Econ. 310 .....	4
Eng. 205, 206, 209,		Philos. 310 .....	3	Electives .....	8-9
211, or 212 .....	3	Electives .....	6		<u>15-17</u>
Math. 251 .....	4		<u>17</u>		
	<u>15</u>				

## Senior Year

Econ. 330 .....	3	Econ. 450 .....	3	Econ. 328 .....	4
Econ. 440 .....	3	Econ. 416 .....	4	Econ. 470 .....	3
Bus. Ad. 330 .....	5	Electives .....	9	Electives .....	9
Electives .....	5		<u>16</u>		<u>16</u>
	<u>16</u>				

For students enrolled in the College of Liberal Arts and Sciences, candidates for the degree Bachelor of Arts, the above curriculum will serve as a general guide. The major is 42 units. Required courses are Economics 200, 201, 202, 310, 315, 317, 318, 440, 450, 481, and a course in Statistics, to be taken either in this department or in Mathematics; also required, Business Administration 251 and 252. The foreign language requirement of the college must be met.

For students enrolled in the College of Education, candidates for the degree Bachelor of Science in Education, the above curriculum will serve as a general guide. The first of the three majors to consider in this college is that of 36 units (accompanied by two minors). Required courses are Economics 200, 201, 202, 310, 315, 317, 355, 440, either 450 or 481; a course in Statistics; and Business Administration 251 and 252. For the 48-unit major (with one minor), required courses include all these, plus Economics 318, both 450 and 481, and Business Administration 253. For the third major, see next paragraph.

For the 24-unit minor in any college, and also for the very limited amount of Economics in the "field major in social studies", required courses are Economics 200, 201, 202, 310, 315, and 317, and either one term of Accounting, or a course in Statistics; students enrolled in the College of Education are required to take Economics 355. For the "field minor in Latin American Relations", Economics 328 and Business Administration 330 are recommended.

In graduate instruction, the department participates in the major in social studies toward the degree Master of Science in Education.

**200, 201, 202. Economic Principles and Problems.** The economic system, markets, production, business and industry, labor relations, taxation, money, credit, value, price, distribution, the cycle, comparative systems. Sequence of courses for students planning to major in Eco-

nomics, Business Administration, or one of the Social Sciences, and for others who wish more than the minimum survey that is offered in 205. This full year prerequisite to all upper division courses, except 355. 200 and 201 (6 hours) or 205 (5 hours) to satisfy the general Social Science requirement for the degree. 3 hours each. Begins in Fall.

204. **Agricultural Economics (Agriculture 204).** Intended for Agriculture students only. See Agriculture.
205. **Survey of Economic Principles.** General features of the economic system, markets, production, business, industry, labor relations, taxation, money, credit, value, distribution. Designed for the general student, not majoring in Economics or Business Administration. 205 (5 hours) or 200 and 201 (6 hours) to satisfy the general Social Science requirement for the degree. 5 hours. Each term.
307. **Economic and Business Statistics I.** Collection of data, questionnaires and polls, tables, graphs, averages, dispersion, correlation, index numbers, time series, trends, and cycles; applications to business and social fields. Maverick. 3 hours lecture and 2 hours laboratory, 4 credit hours. Fall, Spring. (202 prerequisite for all 300 and higher courses; 355 the only exception).
308. **Statistics II. Applied Statistics.** A review of introductory statistics; normal and skewed distribution curves, multiple and partial correlation, index numbers, time series, public opinion and marketing surveys, quality control of industrial product. Prerequisites, Economics 307 and Mathematics 113. Maverick. 3 hours lecture and 2 hours laboratory. 4 credit hours. Winter.
310. **Labor Problems.** Wages, hours, insecurity, industrial conflict, the sub-standard worker; attempts at solution of these problems: labor organizations and the activities of the government. Prerequisite, Sociology 101. 4 hours. Fall.
315. **Money and Banking I.** The principles of money and banking; the development of money and banking systems; credit, prices, recent legislation in the United States. Prerequisite, Business Administration 252. Scott. 4 hours. Fall.
317. **Economic History of the United States I.** An economic analysis of the colonial movement, the westward movement, and industrialization; the historical background of the economic problems of agriculture, transportation, banking, manufacture, and labor. Prerequisite, History 201 or 202; recommended preparation, Geography 319. Pitkin. 3 hours. Winter.
318. **Economic History of the United States II.** The recent period; developments since 1890; the United States as a world power. Prerequisite, Economics 317. Pitkin. 3 hours. Spring.
328. **International Economics.** Problems of international economic relations, against a background of history, economic theory, and current facts about the world's population, resources, industry, and commerce; the position of the United States in the world economy. Prerequisites, Geography 210, Business Administration 330. Morrison. 4 hours. Winter.
- 330, 331, 332. **Public Finance—National 330, State and Local 331, Fiscal Policy 332.** Government revenue, disbursal, debt and fiscal administration; principles, institutions, systems, services, the entry of the government into sundry fields of finance; effects of fiscal actions upon the economy; comparisons with other nations. Prerequisites, Economics 315, Business Administration 355; recommended, Business Administration 320. Morrison. 3 hours each. Fall.

333. **Economic Problems of Southern Illinois.** A study of the economic assets of this region and of their potential uses. 3 hours.
345. **Land Economics.** The part played by land and natural resources in production and in wealth; rent, appraisal, urban and rural land problems; real estate practice. Prerequisite, Geography 210. Maverick. 4 hours. Spring.
355. **The Economics of Consumption.** The consumer as a center of attention in the economic system; consumers' choices; advertising and sales efforts; personal finance. Prerequisite, Economics 205. Baker. 3 hours. Winter.
360. **Regional Economy.** The character, objectives, and results of private and public economic projects of regional scope, in the United States and abroad; impact of formal governmental and less formal collective action on the regional economy; organization of statistics by regions; collection, presentation, and use of regional economic and other data. Prerequisites, Geography 210 and Government 101. Morrison. 3 hours. Spring.
411. **Labor Organizations.** History in various countries; accomplishments and limitations; internal organization and control; relations to different types of political governments and to different economic systems. Prerequisites, Economics 310, 317, 318. 4 hours. Winter.
416. **Money and Banking II.** Emphasis upon the Federal Reserve and other banking systems. Prerequisite, Economics 315. Scott. 4 hours. Winter.
440. **Value and Distribution.** Perfect competition and monopolistic competition. Maverick. 3 hours. Fall.
450. **History of Economic Thought.** Great economists, and the development of economic theory. Maverick. 3 hours. Winter.
451. **Economic Theories.** A study of the theories of leading recent economists. Prerequisite, Economics 440. 3 hours. Winter.
470. **Business Cycles.** An analysis of the major business fluctuations in the United States; price changes, employment, production, credit, inflation, and deflation, and government action during the cycles. Prerequisite, Economics 315 or 440. Maverick. 3 hours. Spring.
481. **Comparative Economic Systems.** Capitalism, socialism, fascism, and other economic forms of society. Maverick. 3 hours. Fall.
500. **Economic Seminar.** Economic research and writing; sources of material; the literature of economics. Admission by consent of the instructor. Maverick. 4 hours. Spring.

## HOME ECONOMICS

Professors Elliott (Chairman), Woody; Assistant Professors Babcock, Barnes.

The purposes of the curricula in the Department of Home Economics are to provide a general cultural program based on the needs of students enrolled in Home Economics, to educate young women for homemaking, and to provide the means for economic independence in professions and vocations related to the activities of the home.

The Home Economics Department offers the following curricula and degrees:

Bachelor of Science in Education, for students in the College of Education.

Bachelor of Science, for students in the College of Vocations and Professions who major in any of the following fields:

- 1. Dietetics.
- 2. Home Economics Extension—(Home Adviser).
- 3. Home Economics in Business.
- 4. Homemaking.
- 5. Institutional Management.

Minors

Those receiving a Bachelor of Science Degree with a major in Home Economics in the College of Vocations and Professions are not required to have a minor.

Those receiving a Bachelor of Science in Education Degree with a major in Home Economics in the College of Education are required to have one minor of at least 24 hours in another academic department. This minor must be approved by an adviser in the Home Economics Department and by an adviser in the field of the minor. Recommended minors for Home Economics majors are Business, English, Chemistry, Physical Education, Art, Speech, and Health Education.

A Minor in Home Economics

Students who have majors in other areas but who desire a minor in Home Economics for cultural or practical values must fulfill the following requirements:

- (1) They must take 24 hours divided among the fields of foods, clothing, house, and family life. The division need not be equal unless the student plans a teaching minor. In that case, too, she should take the special methods course in Home Economics (309), and do one term of student teaching in Home Economics.
- (2) Unless excused for a very good reason, students minoring in Home Economics, should live in the Home Management House, taking the course 325b for 4 of the required hours for the minor.
- (3) Selections should be made from the following courses: 127, 135, 205, 206, 227, 231, 320, 324, 325, 326, 330, 335, 335a, 338, 360, 441.

Suggested Curricula in College of Vocations and Professions

Provision for Specialization in Homemaking, Extension, and Home Economics in Business

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
H. Ec. 111.....	2	H. Ec. 135.....	4	Art 110 .....	4
H. Ec. 127.....	4	H. Ec. 206.....	4	Eng. 103 .....	3
H. Ec. 205.....	4	Eng. 102 .....	3	Physics 101, 102, or	
H. Ec. 227.....	3	Soc. 101 .....	5	Math. 106 .....	4
Eng. 101 .....	3	P. E. ....	1	Zool. 101 or Bot. 101...	5
P. E. ....	1		17	P. E. ....	1
	17				17
Sophomore Year					
Eng. 205 or 209.....	3	Eng. 211 or 212.....	3	Art 120* .....	3
Chem. 109 .....	5	Chem. 249 .....	5	Econ. 205 .....	5
Govt. 101 or Hist 201..	5	Hist. 201 or Geog. 100.	5	Educ. 206 .....	4
Health Ed. 202.....	4	H. Ec. 231.....	3	Mus. 100 .....	3
P. E. ....	1	P. E. ....	1	P. E. ....	1
	18		17		16

\* Those taking the Home Economics Extension Course take Industrial Ed. 216 (4), Furniture Re-upholstering and Re-flinishing instead of Art 120 (3). Those taking the Home Economics in Business Curriculum take Journalism 200 (3) instead of Art 120 (3).

## Provisions for Specialization in Homemaking

The curriculum in Homemaking is planned to develop an appreciation and an understanding of the activities and relationships in the home, and to equip women for efficient and successful management of a home. It is also planned especially to meet the needs of those students preparing for the profession of Homemaking.

(For curriculum for first two years see page 137)

### Junior Year

Hours		Hours		Hours	
H. Ec. 325.....	3	H. Ec. 320.....	4	H. Ec. 326.....	4
Health Ed. 210.....	4	H. Ec. 330.....	3	H. Ec. 335.....	4
Crafts* .....	3	Educ. 345 .....	4	Electives .....	8
Electives .....	6	Electives .....	5		
	<u>16</u>		<u>16</u>		<u>16</u>

### Senior Year

H. Ec. 325a.....	4	H. Ec. 441.....	4	H. Ec. 324.....	5
Electives .....	12	Electives .....	12	H. Ec. 360.....	4
	<u>16</u>		<u>16</u>	Electives .....	7
					<u>16</u>

### Recommended Electives

	Hours
Philosophy 316, Ethics.....	4
H. Ec. 356, Experimental Cookery.....	4
H. Ec. 362, Tailoring.....	4
Crafts (As listed above)	

\* To be selected from Art Needlework, Weaving, Art Metal, Pottery, Furniture Re-upholstering and Re-finishing.

## Provisions for Specialization in Extension (Home Adviser)

This program is designed for those who wish to become county Home Advisers or Home Demonstration workers.

(For curriculum for first two years see page 137)

### Junior Year

Hours		Hours		Hours	
H. Ec. 325.....	3	H. Ec. 310.....	2	H. Ec. 321.....	3
H. Ec. 370.....	5	H. Ec. 320.....	4	H. Ec. 324.....	5
Health Ed. 210.....	4	H. Ec. 330.....	3	H. Ec. 326.....	4
Speech 101 .....	4	Educ. 331 .....	4	H. Ec. 335.....	4
	<u>16</u>	Electives .....	3		
			<u>16</u>		<u>16</u>

### Senior Year

H. Ec. 325a.....	4	H. Ec. 441.....	4	H. Ec. 360.....	4
H. Ec. 371.....	6	Electives .....	12	Electives .....	12
Electives .....	6		<u>16</u>		<u>16</u>
	<u>16</u>				

### Recommended Electives

Crafts. Selected from Art Needlework, Weaving, Art Metal, Pottery, Furniture Re-upholstering and Re-finishing.

Recreational Subjects. Selected from Women's Physical Education: 207, American Square Dance and Mixers; 347, Camp and Community Leadership; 375, Recreational Sports.

Music 307. Recreational Music and Singing Games.

## Provisions for Specialization in Home Economics in Business

This program should be elected by those who wish to enter the business field as home service representatives for utility companies, as demonstrators for manufacturers, and as distributors for such articles as household equipment and foods.

(For curriculum for first two years see page 137)

### Junior Year

Hours	Hours	Hours
H. Ec. 325..... 3	H. Ec. 320..... 4	H. Ec. 321*..... 3
H. Ec. 356*..... 4	H. Ec. 330**..... 3	H. Ec. 324..... 5
Journ. 303 ..... 4	Bus. Ad. 330..... 5	H. Ec. 326..... 4
Speech 101 ..... 4	Speech 107 ..... 4	H. Ec. 335..... 4
<u>15</u>	<u>16</u>	<u>16</u>

### Senior Year

Hours	Hours	Hours
H. Ec. 325a..... 4	H. Ec. 441..... 4	H. Ec. 360**..... 4
H. Ec. 352..... 4	Bus. Ad. 333..... 4	Bus. Ad. 337..... 4
H. Ec. 371..... 6	Electives ..... 8	Electives ..... 8
Electives ..... 2	<u>16</u>	<u>16</u>
<u>16</u>		

\* Required for those specializing in foods and equipment.

\*\* Required only of those specializing in clothing and textiles.

## Dietetics

This curriculum was planned to give a strong technical education to those interested in becoming dietitians in hospitals, college dormitories, industrial plants, health clinics, laboratories, or public health and welfare organizations. This curriculum meets the requirements of the American Dietetics Association.

### Freshman Year

Hours	Hours	Hours
H. Ec. 205..... 4	H. Ec. 206..... 4	H. Ec. 251..... 3
Eng. 101 ..... 3	Eng. 102 ..... 3	Eng. 103 ..... 3
Chem. 111 ..... 5	Chem. 112 ..... 5	Zool. 101 ..... 5
Art 120 or Mus. 100... 3	Soc. 101 ..... 5	P. E. .... 1
P. E. .... 1	P. E. .... 1	Electives ..... 4
<u>16</u>	<u>18</u>	<u>16</u>

### Sophomore Year

Hours	Hours	Hours
Eng. 205 or 209..... 3	Eng. 211 or 212..... 3	Educ. 206 ..... 4
Govt. 101 ..... 5	Hist. 201 ..... 5	Econ. 205 ..... 5
Chem. 305 ..... 4	Chem. 306 ..... 4	Physics, Household ... 4
Physiol. 209a ..... 4	Health Ed. 202..... 4	P. E. .... 1
P. E. .... 1	P. E. .... 1	Electives ..... 3
<u>17</u>	<u>17</u>	<u>17</u>

### Junior Year

Hours	Hours	Hours
H. Ec. 356..... 4	H. Ec. 320..... 4	H. Ec. 335 ..... 4
Physiol. 301 ..... 4	Chem. 452 ..... 4	H. Ec. 350..... 3
Chem. 451 ..... 4	Health Ed. 210..... 4	Educ. 305 ..... 4
Electives ..... 4	Electives ..... 3	Electives ..... 5
<u>16</u>	<u>15</u>	<u>16</u>

### Senior Year

Hours	Hours	Hours
H. Ec. 328..... 4	H. Ec. 340..... 4	H. Ec. 325b..... 4
H. Ec. 351..... 4	Electives ..... 12	H. Ec. 359..... 4
H. Ec. 352..... 4	<u>16</u>	Electives ..... 8
Electives ..... 4		<u>16</u>
<u>16</u>		

Suggested Curriculum in Home Economics in Institution Management

This curriculum is planned to prepare students for managerial positions in institutional services. Graduates are prepared to fill positions as food service managers for residence halls, restaurants, hotels, tea rooms, school lunch rooms, and industrial or commercial cafeterias. This curriculum meets the requirements of the National Restaurant Association.

Freshman Year					
	Hours		Hours		Hours
H. Ec. 205.....	4	Bus. Ad. 102.....	3	H. Ec. 251.....	3
Chem. 109 .....	5	Chem. 249 .....	5	Chem. 259 .....	5
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Art 120 .....	3	Soc. 101 .....	5	Zool. 101 .....	5
P. E. ....	1	P. E. ....	1	P. E. ....	1
	16		17		17

Sophomore Year					
Eng. 205 or 206.....	3	Eng. 211 or 212.....	3	Educ. 206 .....	4
Govt. 101 .....	5	Hist. 201 .....	5	Econ. 205 .....	5
Physiol. 209a .....	4	Health Ed. 202.....	4	Physics, Household ...	4
Bus. Ad. 251.....	3	H. Ec. 206.....	4	Bus. Ad. 271.....	3
P. E. ....	1	P. E. ....	1	P. E. ....	1
	16		17		17

Junior Year					
H. Ec. 328.....	3	H. Ec. 320.....	4	H. Ec. 335.....	4
H. Ec. 356.....	4	H. Ec. 350.....	4	H. Ec. 351.....	4
Physiol. 301 .....	4	Bus. Ad. 254.....	4	Electives .....	8
Bus. Ad. 371.....	4	Bus. Ad. 375.....	4		16
	15		16		

Senior Year					
H. Ec. 308.....	4	H. Ec. 309.....	4	H. Ec. 325b.....	4
H. Ec. 352.....	4	H. Ec. 340.....	4	Electives .....	12
H. Ec. 371.....	6	H. Ec. 353.....	4		16
Electives .....	2	H. Ec. 441.....	4		
	16		16		

Recommended Electives  
H. Ec. 251a or 135  
H. Ec. 324  
Speech 101  
Art 120

- 111. Home Economics Orientation. Surveying professional opportunities in Home Economics; planning for the development of personal and professional proficiencies. Staff. 2 hours. Fall.
- 127. Clothing Construction. Making of underclothing and simple washable dresses over commercial patterns. Woody. 4 hours. Fall.
- 135. Textiles and Clothing. Appreciation of values in the choice of fabrics for clothing and house furnishings; study of family clothing problems. Woody. 4 hours. Winter.
- 205. Food and Cookery. Production, marketing, preparation, and food values of foods rich in carbohydrates and fat. Barnes. 4 hours. Fall and Winter.
- 206. Food and Cookery. Production, marketing, preparation, and food values of meat and other protein foods. Unit on baking also included. Barnes. 4 hours. Fall and Winter.
- 225. Survey Course in Home Economics. A course planned especially for majors in Elementary Education. Units of work in nutrition, school lunches, family and social relationships, textiles, and clothing. Barnes. 4 hours. Offered on demand.

227. **Marriage and Family Relationships.** A study of factors to be considered in selecting a mate. Consideration of adjustments to be made within modern family groups. Babcock. 3 hours. Fall. (Offered other quarters on demand.)
237. **Child Care and Training.** A study of the physical, mental, social, and emotional development of the child, and some practical aspects of his care and training. Prerequisite, Education 206. Babcock. 3 hours. Winter.
251. **Clothing Selection and Care.** Discussion of suitability of clothes as to color, line, and interest. Expenditures for the clothing and care of it (in service and in storage) considered as factors in choice and conservation. Woody. 3 hours. Offered on demand.
- 251a. **Purchase and Care of Clothing and Household Textiles.** Basic information about textiles, to aid in the purchase of a wardrobe and house furnishings and in their care by mending, laundering, stain removal, and storage. Woody. 2 hours. Offered on demand.
300. **Home Economics for Men.** Units dealing with food selection, serving, and table practice; economics of the home; grooming, clothing selection, and home furnishings; consideration of personality evaluation. Elliott. 3 hours. Offered on demand.
308. **Philosophy of Vocational Homemaking Education.** A study of the history and development of vocational education. Trends in homemaking education. Consideration of responsibilities of the homemaking teacher, and development of units of work for a homemaking course in high school. Prerequisite, Education 206. Babcock. 4 hours. Fall.
309. **Methods of Teaching.** A study of the techniques effectively used in teaching vocational homemaking and in educating for family life. Development of teaching aids. Prerequisite, Home Economics 308, or permission of the instructor. Babcock. 4 hours. Winter.
310. **Adult Education in Home Economics.** Philosophy of adult education, promotion and organization of groups, development of materials, and discussion of effective teaching techniques. Prerequisites, Home Economics 308, 309, or permission of the instructor. Babcock. 2 hours. Winter.
311. **Fundamental Principles of Evaluation.** Selection and construction of evaluation devices for use in homemaking education. Prerequisite, senior standing. Babcock. 3 hours. Offered on demand.
316. **Food Preservation.** A study of the newer methods in the canning, preserving, and freezing of foods for home use. Prerequisites, Home Economics 205, 206, or permission of the instructor. Barnes. 3 hours. Offered on demand.
320. **Nutrition and Dietetics.** A study of the needs of the body for energy, growth, and regulation. Planning of dietaries for people of various ages and activities, at different cost levels. Prerequisites, Home Economics 205 and 206, and Chemistry 249. Barnes. 4 hours. Winter.
321. **Food Demonstration.** A course offering opportunity to discuss, observe, and practice demonstrations. Emphasis on food standards and demonstration techniques. Prerequisites, Home Economics 205, 206. Barnes. 3 hours. Spring.
322. **Textiles and Clothing.** A course organized to help majors in Home Economics to meet the requirements for the more advanced courses. Woody. 3 hours. Offered on demand.

324. **Housing and Equipment.** Housing problems of the family, including rural and urban housing needs, standards, and costs; principles and techniques relating to the selection, care, and use of household equipment. Elliott. 5 hours. Spring.
325. **Home Management, Lectures.** A study of factors affecting the management of the home in meeting the needs of individuals and creating a satisfying environment for the family. Special consideration given to those problems involving the use of time, money, and energy. Babcock. 3 hours. Fall.
- 325a. **Home Management Residence.** Six week's residence in Home Management House, with actual experience in different phases of home-making, as housekeeping, food preparation, meal planning and serving, hospitality, and group relationships. Suggested that those registered in course take no more than 16 hours including this course. Prerequisites or required concomitants, Home Economics 227, 307, 325, 335. Babcock. 4 hours. Fall, Winter, Spring, and Summer.
- 325b. **Home Management Residence.** Same as 325a. Standards in keeping with group abilities. No prerequisite. Babcock. 4 hours. Offered on demand.
326. **Home Furnishings.** Discussion of good taste in the choice of many things used in the house. Woody. 4 hours. Spring.
328. **Family Living and Home Management.** Consideration of technological and human values involved in meeting the needs of individuals and groups and in creating a satisfying home environment. Babcock. 3 hours. Offered on demand.
330. **Costume Selection and Design.** Dresses designed in inexpensive materials on dress form. Discussion of becomingness of dress. Elaboration of paper patterns. Woody. 3 hours. Winter.
335. **Meal Planning and Table Service.** The planning, preparing, and serving of formal and informal meals. Selection and care of table appointments. Prerequisites, Home Economics 205, 206, and 320, or permission of the instructor. Barnes. 4 hours. Spring.
- 335a. **Meal Planning and Serving.** Discussion of material covered in 335, but without practice in preparation and serving. Barnes. 4 hours. Offered on demand.
338. **Art Needlework.** Laboratory work acquainting a student with a variety of ways to decorate garments and household articles, and providing a fund of ideas in dress designing and home furnishings. Woody. 2 hours. Offered on demand.
340. **Diet and Disease.** Modifications of the normal diet as necessitated by disease. Prerequisite, Home Economics 320. Barnes. 3 hours. Offered on demand.
350. **Institutional Furnishings and Equipment.** A study of fabrics and furniture for various institutions in which a dietitian might work, and a study of equipment from the standpoint of use, care, and cost for these institutions. Staff. 3 hours. Offered on demand.
352. **Quantity Cookery.** Food problems of institutions, including financing, menu-making, food preparation, and service. Staff. 4 hours. Fall.
353. **Tea Room Management.** The preparation and service of food on a commercial basis, including menu planning, cost computation, and production of food for the tea room and special occasions. Prerequisites, Home Economics 205, 206, 335, 352, or permission of the instruction. Staff. 4 hours. Offered on demand.

354. **School Lunchroom Management.** Organization, preparation, and service of the noon meal; selection, maintenance, and arrangement of equipment; other specific problems related to food service in the public schools. Prerequisites, Home Economics 205, 206, 335. Staff. 3 hours. Offered on demand.
356. **Experimental Cookery.** Advanced food preparation from the experimental standpoint, showing how ingredients, proportions, and techniques affect the quality of the product. Prerequisites, Home Economics 205, 206, and Chemistry 259 or 306. Barnes. 4 hours. Fall.
359. **Advanced Nutrition and Dietetics.** Reports and discussions of problems dealing with nutrition; feeding experiments and dietary studies. Prerequisite, Home Economics 320. Barnes. 4 hours. Offered on demand.
360. **Advanced Dressmaking.** Experience in fitting, tailoring in wool, and developing dresses in materials chosen for variety in texture and pattern. Woody. 4 hours. Spring.
361. **Problems in Fitting.** Experience in fitting different people, and in handling different types of material, each presenting certain difficulties. Aim of the course, to lead students not to complete dresses, but to do only enough stitching to carry the fitting to completion. Woody. 2 hours. Offered on demand.
362. **Tailoring.** Making of a tailored dress, an unlined coat, and a lined coat, together with practice in the necessary preliminary details of tailoring. Woody. 4 hours. Offered on demand.
370. **History, Development, and Principles of Extension Work.** A study of the history, development, organization, and purposes of extension work. Discussion of problems in principles of conducting and administering extension work in Home Economics. Elliott. 5 hours. Fall.
371. **Field Experience.** Six weeks of experience, observing and assisting a county home advisor, a commercial demonstrator, or a food service manager; opportunity for supervised learning experiences in the chosen area. Staff. 6 hours. Fall.
400. **Teaching Aids in Home Economics.** Principles and use of teaching aids such as the school journey, films, slides, demonstrations, and graphic materials. Preparation of some types of visual aids materials in the field. Prerequisite, senior standing. Elliott. 3 hours. Summer.
441. **Consumer Problems.** Study of motives on consumption, family income and expenditures, selection of commodities and services, buying and selling practices, and evaluation of consumer aids. Consideration of contemporary consumer problems. Elliott. 4 hours. Winter.
491. **Workshop in Home Economics.** Group discussion and individual investigations of contemporary problems. Prerequisite, experience in teaching Home Economics. Elliott. 2-4 hours. Summer.

## INDUSTRIAL EDUCATION

Professors Bicknell (Chairman), Schroeder; Associate Professor Holtrop; Assistant Professors English, Shake; Instructors Howe, Johnson, Kohler.

The Department of Industrial Education offers work in major fields leading to degrees as follows:

1. Bachelor of Science in Education. For those students of the College of Education who are preparing to teach Industrial Education

subjects on the high school, junior high school, or elementary school level.

2. Bachelor of Science. For students of the College of Vocations and Professions who desire to enter industry as technicians or as technical assistants to engineers. Students working toward this degree may take their major work in one of the three following fields:
- a. Metal fabrication
  - b. Wood fabrication
  - c. Drafting and design

The curriculum for the students in the College of Education requires a 64 quarter-hour major in Industrial Education. These students will also be required to have a minor. While the student is not restricted in his choice of a minor, the fields of Art, Mathematics, and Physics are recommended. A student who has completed an undergraduate major in Industrial Education may work for a graduate minor in this department. This minor will apply toward the degree, Master of Science in Education.

Students majoring in some other field may take a 32-quarter hour minor in Industrial Education.

Students preparing to teach in the trades and industries vocational program will be required to obtain or present evidence of having had actual experience in industry in the fields they desire to teach.

Those students preparing for a specific job will be encouraged, if not required, to obtain part-time, co-operative, on-the-job training as part of their preparation.

Students preparing to teach industrial arts on the junior and senior high school level will be encouraged to obtain practical industrial experience during summer vacations.

### Suggested Curriculum in College of Education

#### Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
I. E. 101.....	4	I. E. 112.....	4	I. E. 121.....	4
Art 120 .....	3	I. E. 126.....	4	I. E. 122.....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Math. 111, Math. 106,		Math. 112, Math. 107,		Math. or Phys.....	4-5
Phys. 106, or		Phys. 102, or		P. E. 153.....	2
Phys. 101 .....	4-5	Phys. 107 .....	4-5		
P. E. 151 .....	2	P. E. 152.....	2		
	<u>16-17</u>		<u>17-18</u>		<u>17-18</u>

#### Sophomore Year

I. E. 205.....	4	I. E. 212.....	4	I. E. 145.....	4
Bot. 101 .....	5	Govt. 100 .....	5	I. E. 222.....	4
Eng. 205 .....	3	Eng. 209 .....	3	Soc. 101 .....	5
Electives .....	4	Electives .....	4	Electives .....	4
	<u>16</u>		<u>16</u>		<u>17</u>

#### Junior Year

I. E. 204.....	4	I. E. 312.....	4	I. E. 304.....	4
Econ. 205 .....	5	Educ. 205 .....	4	I. E. 322.....	4
Health Ed. 202.....	4	Hist. 201 .....	5	Educ. 310 .....	4
Electives .....	3	Electives .....	3	Educ. 345 .....	4
	<u>16</u>		<u>16</u>		<u>16</u>

#### Senior Year

I. E. 341.....	4	I. E. 370, 380, or 390	4	I. E. 330 or 394....	4
Educ. 315 .....	4	Student Teaching ..	12	Educ. 331 .....	4
Eng. 300 .....	3			Electives .....	6
Electives .....	4		<u>16</u>		<u>14</u>
	<u>15</u>				

Suggested Curriculum in College of Vocations and Professions

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
I. E. 101.....	4	I. E. 112.....	4	I. E. 121.....	4
Eng. 101.....	3	I. E. 126.....	4	I. E. 122.....	4
Art 120.....	3	Eng. 102.....	3	Eng. 103.....	3
Math. 111, 106, Phys.		Math. 112, 107, Phys.		Math. or Phys.....	4-5
106, or Phys. 101.	4-5	102, or Phys. 107.	4-5	P. E. 153.....	2
P. E. 151.....	2	P. E. 152.....	2		
	16-17		17-18		17-18
Sophomore Year					
I. E. 205.....	4	I. E. 212.....	4	I. E. 222.....	4
Botany 101.....	5	Eng. 209.....	3	I. E. 145.....	4
Eng. 205.....	3	Govt. 100.....	5	Soc. 101.....	5
Electives.....	4	Electives.....	4	Electives.....	4
	16		16		17
Junior Year					
I. E. 204.....	4	I. E. 304.....	4	I. E. 305.....	4
I. E. 216.....	4	I. E. 313 (312,		I. E. 322.....	4
Econ. 205.....	5	1948).....	4	Bus. Ad. 321.....	5
H. Ed. 202.....	4	Hist. 201.....	5	Bus. Ad. 322.....	2
	17	Electives.....	3		
			16		15
Senior Year					
I. E. 307.....	4	I. E. 317.....	4	I. E. 342.....	4
I. E. 316.....	4	I. E. 326 or 308....	4	I. E. 327 or 309....	4
I. E. 325.....	4	I. E. 341.....	4	Speech 303.....	4
Electives.....	4	Electives.....	3	Electives.....	3
	16		15		15

101. **Mechanical Drawing I.** Fundamental principles and practices involved in the use of drafting instruments in making orthographic projections, including auxiliary and sectional views; development of surfaces and intersections of solids; pictorial representations, lettering, dimensioning, titles and notes, freehand shop sketching, applied geometrical construction, technical drafting, and design information. 4 hours.
106. **Descriptive Geometry.** Graphical solution of problems involving the understanding of space relations of points, lines and surfaces, intersections, and developed surfaces. Prerequisite, 101. 4 hours.
- 112 (211). **Bench Woodwork.** Fundamental principles and practices in the use of woodworking hand tools in making useful projects involving the more common types of joints and wood fasteners; elementary wood-finishing, care of tools, and technical information. 4 hours.
114. **Wood-Turning.** Fundamental principles and practices in the operation, care, and use of wood-turning lathes and lathe tools in spindle and face plate turning; finishing; and technical information. 4 hours.
- 121 (221). **Art Metal.** A course designed to give training in the fundamental practices followed in making useful and ornamental articles of copper, brass, aluminium, silver, pewter, nickel silver, and other non-ferrous alloys. Work in plastics, and cutting, polishing, and setting of stones included. Execution of designs stressed, as well as related technical information. 4 hours.
- 122 (322). **Machine Shop I.** Emphasis placed on the fundamental operations performed on the engine lathe in making useful projects; safety, care, and operation of machine tools; industrial practices; related technical information. 4 hours.

- 125 (225). **Sheet Metal.** A course which emphasizes the development of skill in the use of hand and machine tools for making useful articles out of sheet metal. Sheet-metal layout, soldering, spot welding, surface development, and related technical information stressed. 4 hours.
- 126 (226). **General Metal.** Fundamental processes in bending, hammering, shaping, and finishing of hot and cold metal projects usually made of tool or mild steel. A study of heat-treatment of these metals, metal-working tools, and related technical information. 4 hours.
- 145 (320). **Electrical Construction I.** A study of the application of electrical theory to the use of simple electrical equipment, of wiring, and of fire-underwriters' regulations. Structure, care, repair, and adjustment of electrical devices usually found in the home or on the farm; house-wiring; related technical information. 4 hours.
- 204 (102). **Architectural Drawing I.** Fundamental principles and practices of architectural drawing; technical information concerning architectural drafting and design; problems and procedures in planning and constructing a home; blue prints and specifications for a set of house plans. Prerequisite, 101. 4 hours.
- 205 (103). **Mechanical Drawing II.** Continuation of 101. Course including technical data concerning machine design, and a study of standards and methods used in industry. Advanced shop-sketching and problem-solving; assembly and detail drawings of complete machines, tools, jigs, and fixtures. Prerequisite, 101. 4 hours.
212. **Machine Woodwork.** Fundamental principles and practices in the use of woodworking machines for making useful projects involving the more advanced types of joints and construction; finishing, safety practices, care of machines, and related technical information. Prerequisite, 112. 4 hours.
- 214 (314). **Wood Pattern-Making and Foundry.** Experience given in making wood patterns of machine parts for castings; holding, involving the cutting and tempering of the holding-sand preparatory to ramming the molds; melting, handling, and pouring of molten metals; related technical information. Prerequisite, 114. 4 hours.
- 216 (315). **Furniture Re-upholstering and Re-finishing I.** A course dealing with the use of the tools, materials, and fundamental processes of re-upholstering and re-finishing furniture. Students given experience in the elementary processes used in reconditioning old pieces of furniture and upholstering new pieces. Course designed for those interested in the subject from an avocational or educational viewpoint. 4 hours.
- 222 (323). **Machine Shop II.** Emphasis placed on practices in connection with the more intricate and exacting processes used on the engine lathe, the shaper, the planer, and the milling machine. Useful articles made. Industrial practices and related technical information stressed. Prerequisite, 122. 4 hours.
230. **Industrial Arts for Rural and Elementary Schools.** A course designed to give experience in constructional activities involving the use of wood, metal, leather, plastics, reed, raffia, clay, and other materials usually found adaptable to the needs and interests of the rural and elementary schools. Selection, organization, care, and use of tools and materials stressed. 4 hours.
304. **Architectural Drawing II.** Continuation of 204. The study of legal phases of building, such as contracts, permits, mechanic's liens, and advanced details of construction. Students required to plot and landscape small residential or business districts and make a complete set

of plans and specifications for a departmental building or small business structure. Prerequisite, 204. 4 hours.

305. **Mechanical Drawing III.** Continuation of 205. Study of advanced technical data pertaining to the design of machines, tools, jigs and fixtures as practiced by industry; consideration of the properties of metals and strength of materials used in machine design. Designing and drawing assemblies and details of simple mechanics. Study of industrial design practices. Prerequisite, 205. 4 hours.
306. **Industrial Arts Design.** Principles of structural design, contour, and surface enrichment applied to shop projects using metal, wood, plastics, leather, etc.; sketches, assembly and detail drawing, and perspectives of projects. Prerequisite, junior standing. 4 hours.
- 307, 308, 309. **Advanced Drafting and Design.** Designed for students preparing for a specific job in drafting, or for a technical degree. A study of advanced technical information pertaining to designing and drafting in the fields of machines, tools, jigs, and fixtures; architecture; sheet metal; structural steel; reinforced concrete; topography; industrial illustrations and production drawings; electricity; and aeronautics. Prerequisite, 205, or 304. 4 hours each.
312. **Millwork.** A course designed to give training in production procedures, followed by the construction of furniture and cabinets, with woodworking machinery. Production practices, safety, care and adjustment of machines, and related technical information stressed. Prerequisite, 212. 4 hours.
313. **Furniture Construction and Cabinet-Making.** A course designed to give advanced training in the use of machines and hand tools for making special pieces of furniture and elementary cabinet work; safety practices, production methods, care and use of equipment, finishing, and advanced technical information on woodwork. Prerequisite, 212. 4 hours.
316. **Furniture Re-upholstering and Re-finishing II.** A continuation of 216, with emphasis on the advanced processes involved in using tools and materials in re-upholstering and re-finishing. Upholstering and finishing of large pieces of furniture, and related technical information. 4 hours.
317. **Furniture Re-upholstering and Re-finishing III.** Course designed for individuals training for job competence in either re-upholstering or re-finishing of furniture. Prerequisite, 316. 4 hours.
- 322 (324). **Machine Shop III.** An advanced course in machine shop practices involving the construction of machines and tools for practical use, as well as making repair parts for tools, and transportation and farm machinery. Advanced industrial production practices and related technical information stressed. Prerequisite, 222. 4 hours.
- 325, 326, 327. **Advanced Vocational Machine Shop.** These courses especially designed for students preparing for either specific jobs in industry or for technical degrees. Experience in precision processes followed by a study of shop work in industry; advanced related technical information stressed. Prerequisite, 322. 4 hours each.
330. **Special Problems in the Arts and Industries.** An opportunity for the advanced student to obtain special instruction in the solution of his problems of special interest, in specific subject matter fields. 4-12 hours.
341. **Machine and Tool Maintenance.** Sources, manufacture, supply, cost, sharpening, adjusting and repairing saws, drills, drill-presses, jointers, lathes, milling machines, shapers, sanders, and other machines, as well

as hand tools used in the various Industrial Education shops. Construction and use of simple jigs and fixtures designed to facilitate production. 4 hours.

342. **Painting and Finishing.** A course designed to give specialized training in the fundamental practices and procedures in painting, staining, varnishing, enameling, lacquering, using transfers, etc., with practice in the use of the spray gun. The study of the chemical elements of various finishes; proper care of finishing equipment and materials stressed. 3 hours.
- 350, 351, 352. **Specialized Advanced Drafting and Design.** These courses designed to continue student specialization in the fields of drafting and design selected in previous courses. Also for students wishing to specialize in more than one field of drafting and design. Part-time on-the-job training encouraged if not required in these courses. Prerequisite, 309. 4 hours each.
- 360, 361, 362. **Specialized Advanced Vocational Machine Shop.** These courses designed to continue student specialization in metal fabrication. Prerequisite, 327. 4 hours each.
370. **General Shop Organization and Practice.** A course designed to give advanced students specific training in organization and management of a general shop in junior and senior high schools. Experience given in the selection and construction of suitable projects in at least four areas of work—metal, wood, electricity, graphic arts, transportation, etc. Construction of various types of teaching aids and organization of instructional material stressed. For advanced students only. 4 hours.
380. **Materials and Methods of Teaching Industrial Education in Rural and Elementary Schools.** A study of activities performed by the Industrial Education teacher or regular classroom teacher in planning and using constructional activities in the lower grades. Selection and organization of equipment and materials and the observation and evaluation of classroom practices stressed. Prerequisite 230. 4 hours.
- 490 (390). **Principles of Trade and Industrial Teaching.** A study of activities performed by the Industrial Education teacher in the promotion of interest and motivation of learning in the shop. Planning and methods of presentation of teaching materials, use of teaching devices and procedures, shop management, safety, and measurement of achievement. Observation and evaluation of classroom use of materials and methods of teaching Industrial Education. Designed for teachers and supervisors of Industrial Education. 4 hours.
- 494 (394). **Organization and Administration of Industrial Education.** Organization and administration of Industrial Arts programs in elementary, junior and senior high schools; relation of federal and state supervision of Industrial Arts to local administration; relation of Industrial Arts administration to Vocational Education administration and to other areas of administration in the local school. The organization and administration of vocational all-day, part-time, and evening programs; apprenticeship and vocational rehabilitation; relation of federal and state vocational administration. 4 hours.
496. **Selection and Organization of Subject Matter.** The selection and arrangement of teaching content; techniques and procedures in analyzing occupations into basic elements to be used in organizing teaching materials; preparation of job, and informational and operation sheets. The use of individual written instructional materials. 4 hours.
500. **Special Investigations in Industrial Education.** A course designed for students who wish to make a thorough study or investigation of a specific problem in Industrial Education. 4 hours.

- 504. History and Philosophy of Industrial Education.** A study of the leaders, organizations, and movements that have contributed to the development of Industrial Education. An overview of the nature and purpose of Industrial Arts and Vocational Education, their relationships, their differences, and the place each phase of work should have in the public school program. 4 hours.
- 590. Research in Industrial Education.** Designed to give students training in research techniques used in Industrial Education. Only for students who are writing a thesis or making an advanced graduate study of some phase of Industrial Education. 3-6 hours.

## JOURNALISM

Instructor Steffes (Acting Chairman); Director of the Information Service, Drummond.

The Department offers Journalism curricula leading to the degrees of

1. Bachelor of Science in Education.
2. Bachelor of Science, for students in the College of Vocations and Professions.

Journalism candidates must demonstrate a working knowledge of type-writing, based on a minimum straight copying rate of twenty-five words per minute.

### Suggested Curriculum in College of Vocations and Professions

#### Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
Art 120 .....	3	Journ. 100 .....	2	Journ. 210 .....	1
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Bus. Ad. 102*.....	3	Math. 107 or Phys. 102.	4	Bot. 101 or Zool. 101..	5
Math. 106 or Phys. 101.	4	Soc. 101 .....	5	Geog. 100 .....	5
P. E. ....	2	P. E. ....	2	P. E. ....	2
	<u>15</u>		<u>16</u>		<u>16</u>

#### Sophomore Year

Journ. 200 .....	4	Journ. 201 .....	4	Journ. 210 .....	1
Journ. 210 .....	1	Journ. 210 .....	1	Journ. 301 .....	2
Chem., Math., or Phys. 4		Eng. 211 or 212.....	3	Journ. Elective .....	5
Philos. 200 .....	3	Govt. 101 or Econ. 200.	5	Eng. 205 or 209.....	3
Speech 101 .....	4	H. Ed. 202.....	4	Hist. 201 or 202.....	5
	<u>16</u>		<u>17</u>		<u>16</u>

#### Junior Year

Journ. Elective .....	3	Journ. 303 .....	3	Journ. 302 .....	2
Eng. 290 or 392.....	3	Journ. Elective .....	3	Journ. Elective .....	3
For. Lang.† .....	3	For. Lang.† .....	3	For. Lang.† .....	3
Electives‡ .....	7	Electives‡ .....	7	Electives‡ .....	8
	<u>16</u>		<u>16</u>		<u>16</u>

#### Senior Year

Journ. Elective .....	4	Journ. Elective .....	4	Journ. Elective .....	4
Electives‡ .....	12	Electives‡ .....	12	Electives‡ .....	12
	<u>16</u>		<u>16</u>		<u>16</u>

\* This course is not required, nor is credit given, if the student has had a year of high school typewriting. Requirement will be waived, but no credit given, if student demonstrates typing ability of twenty-five words per minute.

† Recommended, but not required, unless student is earning the Bachelor of Arts degree.

‡ It is recommended that junior and senior electives be taken in the fields of Speech, Business Administration, and the Social Studies.

100. **Survey of Journalism.** A background of journalistic reading; only writing consisting of reports on the major sources covered. 2 hours. Fall.
200. **Principles of Journalism I.** A basic course in writing and editing practices. Newspaper terms defined; news sources examined; news-writing and copy-editing problems introduced through classroom exercises. Prerequisite, Journalism 100, and a working knowledge of type-writing. 4 hours. Fall.
201. **Principles of Journalism II.** A continuation of 200. Practical news reporting, copy-writing, and copy-editing stressed. News stories written; techniques of the sport story, the society page, the column, the editorial, and the feature story introduced. 4 hours. Winter.
210. **Journalism Laboratory.** Practical reporting and news writing on university newspaper. Class meeting twice each week for assignments and criticism. Repetition possible for a maximum of 6 credit hours. Prerequisite, Journalism 200 or permission of instructor. 2 hours per term. Offered each term.
301. **Editorial Writing.** A course dealing with the structure, style and principles involved in editorial writing; instruction and practice in writing material for the newspaper editorial page stressed; student editorials submitted to campus publications and newspapers nearby. Prerequisites, Journalism 200 and 201. 2 hours. Spring.
302. **Feature Writing.** Newspaper features including the column, the department, the critical review, and the special story. Factual news features and human interest stories stressed. Prerequisite, Journalism 200. 2 hours. Winter.
303. **Principles of Advertising.** A course designed to acquaint the student with current practices in the field of advertising, particularly newspaper advertising. Dealing with advertising media, preparation of copy and layouts, consumer analyses, and testing techniques. 3 hours. Winter.
304. **School Publications.** Designed for the prospective journalism teacher or publications sponsor in high school; dealing with methods of teaching journalism and advising publications staffs; practical suggestions offered for staff appointment, editing, circulation, advertising, and general policies. Prerequisites, junior standing and enrollment in the College of Education. 3 hours. Summer.
305. **Principles of Typography.** A study of the mechanics of printing, including selection of type faces, printing processes, inks, and papers as applied to newspaper and magazine printing. Identification of common printing machinery accomplished in field trips to nearby publishing plants. 5 hours.
306. **Technical Writing.** A course designed to train students primarily interested in scientific or technical fields; writing of simple and intelligent newspaper or magazine articles on material in student's major fields. Not a course for preparing specialized academic reports, theses, or dissertations. Prerequisite, junior standing. Journalism 200 recommended. 3 hours. Summer.
307. **Publicity Methods.** Methods and media of presenting publicity, including the news service bulletins, advertising campaigns, direct mail, lectures, and visual education. 3 hours. Summer.
- 350, 351. **Magazine Article Writing I, II.** Courses designed for the student who, regardless of his university program, displays talent for factual or creative writing suitable for magazines or trade publications. Students required to write articles, study markets, and submit manu-

scripts for publication. Prerequisite, senior standing. 4 hours each. Winter and Spring.

361. **News Photography.** A technical course in photography, as applied to newspapers, with emphasis on use of the press-type camera. Practice, through laboratory sessions, in developing, in enlarging, and in contact printing. Possession of a camera by the student desirable, but not necessary. Enrollment, limited to 12, may be made only with permission of instructor. 4 hours. Spring.
370. **Advertising Copy Writing.** Emphasis in this course placed on the creative side of advertising—the ideas behind campaigns, the sales message. Prerequisite, Journalism 303. 4 hours.

MUSIC

The Department of Music is an associate member of the National Association of Schools of Music.

Professor Kesnar (Chairman); Associate Professors Barry, McIntosh, Wakeland; Assistant Professors Moe, Morse, Wharton; Instructors Hines, Mueller, Vogler.

As an important force in the educational life of the University, the Music Department offers opportunity for participation in many instrumental and choral activities both on an extracurricular and on a credit basis.

All Music majors must maintain a satisfactory membership in two of the University's music organizations—Band, Orchestra, Chorus—during their University attendance.

Curricula are designed leading to the following degrees:

- 1. Bachelor of Music. This degree is intended for students in the College of Vocations and Professions who intend to make performing in music their profession.
- 2. Bachelor of Science in Education. This degree is offered for students in the College of Education who intend to make the teaching of music their profession.
- 3. Bachelor of Arts. This degree is offered for students in the College of Liberal Arts and Sciences who want a specialization in music as a part of their general cultural education.

*It is advisable to start the program in the freshman year.*

Suggested Curriculum in College of Education

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Music 105 .....	4	Music 106 .....	4	Music 107 .....	4
Applied Major and		Applied Major and		Applied Major and	
Minor .....	2	Minor .....	2	Minor .....	2
Band, Orch., or		Band, Orch., or		Band, Orch., or	
Choir .....	1	Chorus .....	1	Chorus .....	1
Eng. 101 .....	3	Playing Course in		Eng. 103 .....	3
Math. 106 or 111...	4	Strings, Brass, or		Soc. Studies .....	5
P. E. ....	1-2	Woodwinds .....	3	P. E. ....	1-2
	15-16	Eng. 102 .....	3		
		Math. 107 .....	4		16-17
		P. E. (Women)....	1		
			17-18		

Sophomore Year

Music 205 ..... 4	Music 206 ..... 4	Music 207 ..... 4
Applied Major and	Applied Major and	Applied Major and
Minor ..... 2	Minor ..... 2	Minor ..... 2
Band, Orch., or	Band, Orch., or	Band, Orch., or
Chorus ..... 1	Chorus ..... 1	Chorus ..... 1
Eng. 205 ..... 3	Eng. 209 ..... 3	Health Ed. 202..... 4
Hist. 201 or 202..... 5	Govt. 101, 231, or	Zool. or Bot..... 5
P. E. (Women).... 1	300 ..... 5	P. E. (Women).... 1
15-16	P. E. .... 1-2	16-17
	16-17	

Junior Year

Music 300 ..... 3	Music 305I ..... 3	Music 302 ..... 3
Music 301 ..... 1	Music 324 ..... 2	Music 303 ..... 1
Music 323 ..... 2	Music 342 ..... 1	Music 305V ..... 3
Music 341 ..... 1	Applied Major and	Music 325 ..... 2
Applied Major and	Minor ..... 2	Music 343 ..... 1
Minor ..... 2	Band, Orch., or	Applied Major and
Band, Orch., or	Chorus ..... 1	Minor ..... 2
Chorus ..... 1	Econ. 205 ..... 5	Band, Orch., or
Playing Course in	Educ. 305 ..... 4	Chorus ..... 1
Brass, Strings, or	18	Educ. 310 ..... 4
Woodwind ..... 3		17
Educ. 205 ..... 4		
17		

The student must take English 300, 390, or Speech.  
Summer Session should include Education 315.  
Unless he has taken it in high school, the student should also include Business Administration, 3 hours, or Industrial Education, 3 hours.

Senior Year

Music 309 ..... 2	Music 310 ..... 2	Music 311 ..... 2
Music 326 ..... 2	Music 327 ..... 2	Music 318 ..... 3
Music 336 ..... 3	Music 337 ..... 3	Music 328 ..... 2
Applied Major and	Applied Major and	Music 338 ..... 3
Minor ..... 2	Minor ..... 2	Applied Major and
Band, Orch., or	Band, Orch., or	Minor ..... 2
Chorus ..... 1	Chorus ..... 1	Band, Orch., or
Educ. 331 ..... 4	Physics 308 ..... 4	Chorus ..... 1
Stud. Tchg. .... 4	Stud. Tchg. .... 4	Stud. Tchg. .... 4
18	18	17

A minor of 24 hours is required in the College of Education.  
To complete a minor subject, the student will ordinarily need to attend at least an extra summer session.  
All music students will be required to be members of two music organizations and the Oratorio Society.  
The College of Education offers a minor in Music with a minimum of 60 quarter hours. This minor should include 24 quarter hours of Music Theory, 9 hours of Music History, and 12 hours of Applied Music. Participation is required in two of the three ensembles—Band, Chorus, and Orchestra—for four years.  
Music Curriculum Requirements, College of Liberal Arts and Sciences, with a Bachelor of Arts degree, major in music:

Minimum Requirements:

Music 105, 106, 107.....	12 hours
Music 205, 206, 207.....	12
Music 336, 337, 338.....	9
Music 326, 327, 328.....	6
Applied Music .....	12
Ensemble .....	9

60 hours

Suggested Curriculum in College of Vocations and Professions

(Bachelor of Music Degree)

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Music 105 .....	4	Music 106 .....	4	Music 107 .....	4
Applied Major .....	4	Applied Major .....	4	Applied Major .....	4
Applied Minor .....	1	Applied Minor .....	1	Applied Minor .....	1
Ensemble .....	1	Ensemble .....	1	Ensemble .....	1
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Mod. Lang. ....	3	Mod. Lang. ....	3	Mod. Lang. ....	3
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
<hr/> 17-18		<hr/> 17-18		<hr/> 17-18	

Sophomore Year					
Music 205 .....	4	Music 206 .....	4	Music 207 .....	4
Music 341 .....	1	Music 342 .....	1	Music 343 .....	1
Applied Major .....	4	Applied Major .....	4	Applied Major .....	4
Applied Minor .....	1	Applied Minor .....	1	Applied Minor .....	1
Ensemble .....	1	Ensemble .....	1	Ensemble .....	1
Mod. Lang.* .....	3	Mod. Lang.* .....	3	Mod. Lang.* .....	3
P. E. (Women)....	1	P. E. (Women)....	1	P. E. (Women)....	1
Electives .....	3	Electives .....	3	Electives .....	3
<hr/> 17-18		<hr/> 17-18		<hr/> 17-18	

Junior Year					
Music 323 .....	2	Music 324 .....	2	Music 325 .....	2
Music 326 .....	2	Music 327 .....	2	Music 328 .....	2
Music 318 .....	2	Music 319 .....	2	Applied Major .....	4
Applied Major .....	4	Applied Major .....	4	Applied Minor .....	1
Applied Minor .....	1	Applied Minor .....	1	Econ. 205 .....	5
Govt. 231 .....	5	Hist. 201 or 202....	5	H. Ed. 202.....	4
<hr/> 16		<hr/> 16		<hr/> 18	

Plus a Junior recital (half).

Senior Year					
Music 309 .....	2	Music 310 .....	2	Music 311 .....	2
Music 312 .....	2	Music 313 .....	2	Music 314 .....	2
Music 336 .....	3	Music 337 .....	3	Music 338 .....	3
Applied Major .....	4	Applied Major .....	4	Applied Major .....	4
Electives .....	5	Elective Seminar of		Elective Seminar of	
<hr/> 16		Applied Music ...	1	Applied Music ...	1
		<hr/> 12		<hr/> 12	

Plus a full Senior Recital.

All music students will be required to be members of two music organizations and the Oratorio Society.

Electives must include 3 hours of Practical Arts and Crafts if not taken in High School.

\* Students not specializing in voice should take Art 120 and six hours from the following courses: English 205, 206, 209, 211, 212.

Theory Courses

100. Music Understanding. An examination of music, with emphasis on the background, purpose, and structure of thirty representative compositions chosen mainly from the field of symphonic music. 3 hours.
- 105, 106, 107. Theory of Music. A study of the fundamentals of music, including four distinct but correlated fields—sight singing, ear training, harmony, and keyboard harmony. Classes meet five times weekly. 4 hours each.

- 205, 206, 207. **Theory of Music.** A continuation of 105, 106, and 107. Course of more advanced sight singing in three and four parts; with continued work in ear training; keyboard harmony; two, three, and four part dictation; and improvisation at the keyboard. Also includes a study of the various methods of modulation, the treatment of dissonance in music, the use of altered chords and an introduction to contemporary harmonic principles. Classes meet five times weekly. 4 hours each.
300. **Materials, Methods, and Problems I.** The teaching of music in the first six grades. 3 hours.
301. **Observation I.** Students required to observe systematically the teaching of music in the grades. 1 hour.
302. **Observation II.** Students required to observe music instruction at the junior and senior high school levels. 1 hour.
303. **Materials, Methods, and Problems II.** The teaching of music in the junior and senior high schools. 3 hours.
- 305I. **Instrumental Problems and Materials.** 3 hours.
- 305V. **Vocal Problems, Materials, and Conducting.** 3 hours.
307. **Recreational Music and Singing Games.** Attractive folk songs and stunt songs suitable for assembly sings and informal groups learned; the singing games taught by instructor largely those collected in Southern Illinois. Each student taught to play a shepherd pipe of his own construction. Instruction given in the playing of pocket musical instruments, such as the harmonica and the ocarina. Course particularly useful to teachers who are interested in the less formal approach to music in the schools and for students interested in preparing themselves as leaders in summer camp activities, playground supervision, Four-H Club work, and similar types of recreational leadership. 4 hours.
- 309, 310, 311. **Orchestration I, II, III.** A study of the instruments of the orchestra, together with practical work in orchestra and band scoring. Prerequisites, Music 107, and one year of college work in piano. 2 hours each.
- 312, 313. **Composition I, II.** Composition of original work in smaller forms for piano, voice, string quartet, and other small combinations. Prerequisite, Music 207. 2 hours.
314. **Composition III.** Composition in larger forms. Prerequisite, Music 313. 2 hours.
- 318, 319. **Conducting.** A study of the techniques employed in conducting instrumental groups of various sizes and combinations. Student provided with opportunities to conduct both the University Orchestra and the Band. 3 hours each.
- 323, 324, 325. **Counterpoint.** Detailed study of the contrapuntal styles of Bach and other Eighteenth and Nineteenth Century composers. Creative work in two, three, and four-part counterpoint. Invertible counterpoint, canon, and fugue. 2 hours each.
- 326, 327, 328. **Form and Analysis.** A study of the form and texture of music from motif through symphony. 2 hours each.
336. **Music History.** The beginnings of musical thought through the early Greek and Roman periods, and the development of music in the fifteenth and sixteenth centuries. 3 hours.

337. **Music History.** The history of musical thought in the seventeenth and eighteenth centuries and the first part of the nineteenth century (Bach until Wagner). 3 hours.
338. **Music History.** Wagner, the rise of nationalism; later nineteenth-century and twentieth-century composers. 3 hours.
339. **V(ocal), I(nstrumental), P(iano).** Seminar of Applied Music. An advance course in applied music for senior college students only. 2 hours.
340. **Music Esthetics Research.** Student admitted only by the chairman of the department. 1 hour.
- 341, 342, 343. **Musical Literature.** A discussion of musical literature from the earliest compositions to the present day. Students admitted to this course only by the approval of the chairman of the department. 1 hour each.
345. **Chamber Music.** Vocal ensemble (Madrigal Group). 2 hours.
355. **Chamber Music.** String ensemble, string quartet. 2 hours.
365. **Chamber Music.** Woodwind or brass ensemble. 2 hours.
- 409, 410. **Advanced Orchestration.** Compositions in the larger forms scored for the full modern symphony orchestra. Prerequisites, Music 309, 310, 311. 3 hours each.
- 423, 424, 425. **Advanced Counterpoint.** A study of pre-Bach counterpoint, with special emphasis on the Palestrina style. Advanced fugal writing. Analysis and creative experimentation in contemporary contrapuntal styles. Prerequisites, Music 323, 324, 325. 2 hours each.

### Applied Music

For every hour of applied music taken, privately or in class, an equal number of hours of practice are expected.

**Strings—Violin, Viola, or Cello.** 1 or 2 hours each.

150	151	152	First Year
250	251	252	Second Year
350	351	352	Third Year
356	357	358	Fourth Year

**Woodwinds—Flute, Oboe, Clarinet, or Bassoon.** 1 or 2 hours each.

160	161	162	First Year
260	261	262	Second Year
360	361	362	Third Year
366	367	368	Fourth Year

**Wind and Percussion.** Class lessons. 3 hours.

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**Piano and Organ.** 1 or 2 hours each.

170	171	172	First Year
270	271	272	Second Year
370	371	372	Third Year
376	377	378	Fourth Year

**Brasses—French Horn, Trumpet, Trombone, or Tuba.** 1 or 2 hours each.

180	181	182	First Year
280	281	282	Second Year
380	381	382	Third Year
386	387	388	Fourth Year

Ensemble—Band, Chorus, Orchestra. ½ hour each.

183	184	185	First Year
283	284	285	Second Year
383	384	385	Third Year
393	394	395	Fourth Year

Voice. 1 or 2 hours each.

190	191	192	First Year
290	291	292	Second Year
390	391	392	Third Year
396	397	398	Fourth Year

SPEECH

Professor Talley (Chairman); Associate Professor McLeod; Assistant Professor Garbutt.

The department of Speech offers curricula leading to the following degrees:

- 1. Bachelor of Science in Education.
- 2. Bachelor of Arts (for students in the College of Liberal Arts and Sciences).
- 3. Bachelor of Science (for students in the College of Vocations and Professions). The student may major in any of the following concentrations:

- Interpretation
- Public Speaking
- Radio
- Speech Correction
- Theater

Curricula in College of Vocations and Professions

Major in Speech, Interpretation Concentration

Freshman Year

Fall		Winter		Spring	
	Hours		Hours		Hours
Speech 101 .....	4	Music 100 .....	3	Speech 103 .....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Chem., Physics or		Chem., Physics or		Chem., Physics or	
Math. ....	4	Math. ....	4	Math. ....	4
Prac. Arts or Craft. ....	3	Soc. Sci. ....	5	Soc. Sci. ....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	15-16		16-17		17-18

Sophomore Year

Speech 104 .....	3	Speech 211 .....	4	Speech 215 .....	4
Speech 105 .....	3	Art 120 .....	3	Health Ed. 202.....	4
Soc. Sci. ....	5	Biol. Sci. ....	5	Soc. Sci. ....	5
Eng. 205, 206, 209,		Eng. 205, 206, 209,		P. E. (Women)....	1
211 or 212.....	3	211 or 212.....	3	Electives .....	4
P. E. (Women)....	1	P. E. (Women)....	1		
Electives .....	2-3	Electives .....	2		17-18
	17-18		17-18		

Junior Year

Speech 314 .....	4	Speech Electives† ..	4	Speech 204 .....	3
Eng. 369 .....	4	Eng. 305* .....	4	Eng. 318* .....	4
Electives† .....	9	Electives .....	9	Electives .....	9
	17		17		16

Senior Year

Speech Electives† .. 8-10	Speech Electives† .. 9	Speech Electives† .. 9
Eng. 320* ..... 4	Eng. 324* ..... 4	Eng. 366* ..... 4
Eng. 321* ..... 4	Eng. 330* ..... 4	Eng. 370* ..... 4
<u>16-18</u>	<u>17</u>	<u>17</u>

\* Twelve hours or more must be taken from these. Electives may be substituted for the others.  
† Speech electives must be in public speaking, drama, or radio.  
‡ Electives must include 40 hours of senior college credit.

Major in Speech, Public Speaking Concentration

Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
Speech 101 ..... 4		Art 120 or Mus. 100. 3		Speech 102 ..... 4	
Eng. 101 ..... 3		Eng. 102 ..... 3		Eng. 103 ..... 3	
Chem., Physics or Math. .... 4		Chem., Physics or Math. .... 4		Chem., Physics or Math. .... 4	
Prac. Arts or Craft. 3		Soc. Sci. .... 5		Soc. 101 ..... 5	
P. E. .... 1-2		P. E. .... 1-2		P. E. .... 1-2	
<u>15-16</u>		<u>16-17</u>		<u>17-18</u>	

Sophomore Year

Speech 202 ..... 3		Speech 205 ..... 3		Speech 213 ..... 4	
Econ. 200 ..... 3		Speech 209 ..... 1		Soc. Sci. .... 5	
Eng. 205, 206, 209, 211 or 212..... 3		Speech 201 ..... 2		Econ. 202 ..... 3	
P. E. (Women).... 1		Eng. 205, 206, 209, 211 or 212..... 3		Health Ed. .... 4	
Electives ..... 8		Biol. Sci. .... 5		P. E. (Women).... 1	
<u>17-18</u>		P. E. (Women).... 1		<u>16-17</u>	
		Econ. 201 ..... 3			
		<u>17-18</u>			

Junior Year

Speech 209 ..... 1		Speech 309 ..... 1		Speech Electives ... 4	
Speech 301 ..... 4		Speech Electives ... 4		Soc. 102 ..... 5	
Educ. 206 ..... 4		Govt. 370 ..... 4		Electives ..... 8	
Phil. 310 ..... 3		Electives ..... 8		<u>17</u>	
Electives ..... 4-6		<u>17</u>			
<u>16-18</u>					

Senior Year

Speech Electives ... 8		Speech 309 ..... 1		Speech 402 ..... 4	
Soc. 330 ..... 3		Speech 401 ..... 4		Speech Electives ... 4	
Electives ..... 6		Speech Electives ... 4		Soc. 369 ..... 3	
<u>17</u>		Soc. 331 ..... 5		Electives ..... 6	
		Electives ..... 3		<u>17</u>	
		<u>17</u>			

Electives must include 32 hours of senior college courses.

Major in Speech, Radio Concentration

Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
Speech 101 ..... 4		Speech 103 ..... 4		Speech 107 ..... 3	
Eng. 101 ..... 3		Eng. 102 ..... 3		Eng. 103 ..... 3	
Physics 101 ..... 4		Physics 102 ..... 4		Math. .... 4	
Prac. Arts or Craft. 3		Soc. Sci. .... 5		Soc. Sci. .... 5	
P. E. .... 1-2		P. E. .... 1-2		P. E. .... 1-2	
<u>15-16</u>		<u>17-18</u>		<u>16-17</u>	

Sophomore Year

Speech 216 ..... 4	Speech 104 ..... 3	Speech 105 ..... 3
Eng. 205, 206, 209, 211 or 212..... 3	Eng. 205, 206, 209, 211 or 212..... 3	Soc. 101 ..... 5
Biol. Sci. .... 5	Art 120 or Mus. 100. 3	Econ. 202 ..... 3
Journ. 100 ..... 2	Econ. 201 ..... 3	Health Ed. .... 4
Econ. 200 ..... 3	Journ. 200 ..... 4	P. E. (Women).... 1
P. E. (Women).... 1	P. E. (Women).... 1	Electives ..... 2
<hr/> 17-18	<hr/> 16-17	<hr/> 17-18

Junior Year

Speech 215 ..... 4	Speech 316 ..... 4	Speech 311 ..... 4
Bus. Ad. 330..... 5	Journ. 308 ..... 5	Speech 317 ..... 2
Physics 308 ..... 5	Soc. 202 ..... 5	Bus. Ad. 337..... 5
Electives ..... 2-4	Electives ..... 2-4	Soc. 330 ..... 3
<hr/> 16-18	<hr/> 16-18	Electives ..... 2
		<hr/> 16

Senior Year

Speech 317 ..... 2	Speech 317 ..... 2	Speech Electives ... 8
Speech Electives ... 8	Speech Electives ... 6	Electives ..... 8-10
Soc. 331 ..... 5	Electives ..... 8-10	<hr/> 16-18
Electives ..... 2	<hr/> 16-18	
<hr/> 17		

Electives must include 22 hours of senior college credit.

Major in Speech, Speech Correction Concentration

Freshman Year

Fall	Hours	Winter	Hours	Spring	Hours
Speech 101 ..... 4		Art 120 or Mus. 100. 3		Speech 104 ..... 3	
Eng. 101 ..... 3		Eng. 102 ..... 3		Eng. 103 ..... 3	
Chem., Physics or Math. .... 4		Chem., Physics or Math. .... 4		Chem., Physics or Math. .... 4	
Prac. Arts or Craft. 3		Soc. Sci. .... 5		Soc. Sci. .... 5	
P. E. .... 1-2		P. E. .... 1-2		P. E. .... 1-2	
<hr/> 15-16		<hr/> 16-17		<hr/> 16-17	

Sophomore Year

Speech 105 ..... 3	Speech 211 ..... 4	Health Ed. .... 4
Soc. 101 ..... 5	Soc. 102 ..... 5	Soc. Sci. .... 5
Eng. 205, 206, 209, 211 or 212..... 3	Eng. 205, 206, 209, 211 or 212..... 3	Health Ed. 203.... 3
Educ. 206 ..... 4	Biol. Sci. .... 5	Electives ..... 4
P. E. (Women).... 1	P. E. (Women).... 1	P. E. (Women).... 1
Electives ..... 2	<hr/> 17-18	<hr/> 16-17
<hr/> 17-18		

Junior Year

Speech 212 ..... 4	Speech 318 ..... 4	Speech 319 ..... 4
Soc. 355 ..... 3	Soc. 381 ..... 3	Speech Electives ... 4
Physiol. 209a ..... 4	Physiol. 300 ..... 4	Educ. 305 ..... 4
Electives ..... 6	Electives ..... 6	Electives ..... 6
<hr/> 17	<hr/> 17	<hr/> 18

Senior Year

Speech 405 ..... 4	Speech Electives ... 8	Speech 306 ..... 4
Speech Electives ... 8	Educ. 340 ..... 4	Speech Electives ... 6
Educ. 306 or 343... 4	Electives ..... 4	Educ. 425 ..... 4
Electives ..... 2	<hr/> 16	Electives ..... 2
<hr/> 18		<hr/> 16

Electives must include 20 hours of senior college credit.

## Major in Speech, Theater Concentration

Freshman Year					
Fall		Winter		Spring	
	Hours		Hours		Hours
Speech 101 .....	4	Speech 106 .....	4	Speech 103 .....	4
Eng. 101 .....	3	Eng. 102 .....	3	Eng. 103 .....	3
Chem., Physics or		Chem., Physics or		Chem., Physics or	
Math. ....	4	Math. ....	4	Math. ....	4
Prac. Arts or Craft. ....	3	Soc. Sci. ....	5	Soc. Sci. ....	5
P. E. ....	1-2	P. E. ....	1-2	P. E. ....	1-2
	<u>15-16</u>		<u>17-18</u>		<u>17-18</u>
Sophomore Year					
Speech 204 .....	3	Speech 208 .....	1	Speech 208 .....	1
Speech 206 .....	2	Speech 214 .....	2	Home. Ec. 135.....	4
Eng. 205, 206, 209,		Eng. 205, 206, 209,		Health Ed. ....	4
211 or 212.....	3	211 or 212.....	3	Art 120 .....	3
Soc. Sci. ....	5	Biol. Sci. ....	5	Soc. Sci. ....	5
P. E. (Women)....	1	P. E. (Women)....	1	P. E. (Women)....	1
Electives† .....	4	Electives .....	6		
	<u>17-18</u>		<u>17-18</u>		<u>17-18</u>
Junior Year					
Speech Electives ...	4	Speech Electives ...	4	Speech 312 .....	4
Home Ec. 330.....	3	Speech 313 .....	4	Speech Electives ...	4
Electives .....	10	Eng. 306* .....	4	Eng. 360* .....	4
	<u>17</u>	Electives .....	5	Electives .....	5
			<u>17</u>		<u>17</u>
Senior Year					
Speech 402 .....	4	Speech Electives ...	10	Speech 403 .....	4
Speech Electives ...	9	Eng. 363* .....	4	Speech Electives ...	9
Eng. 361* .....	4	Electives .....	3	Eng. 366* .....	4
	<u>17</u>		<u>17</u>		<u>17</u>

\* One of these may be omitted in favor of an elective.

† Electives must include 21 hours of senior college credit.

## General Speech

- 101. Principles of Speech.** For the development of an understanding of basic principles and proficiency in the skills involved in everyday communication. Provides experience in a variety of speech situations. Prerequisite to all other courses in speech except 106, 302, 307—unless by permission of the instructor and department chairman. 4 hours. Each quarter.
- 104. Training in the Speaking Voice.** Development of a good speaking voice and approved diction, through group and individual drill techniques. 3 hours. Each quarter.
- 201. Parliamentary Law.** A study of the rules of procedure involved in presiding over and participating in properly conducted meetings. 2 hours. Winter.

## Public Speaking

- 102. Public Speaking.** Principles of public speaking applied to the various typical public speaking situations. Analysis of audience motives and reactions stressed in the approach to speech preparation. 4 hours. Each quarter.
- 202. Principles of Discussion.** A consideration of principles and methods of discussion applicable to various types of group discussion. Current problems used as material for discussion. 3 hours. Fall and Spring.

205. **Principles of Argumentation and Debate.** A study of the principles of argument, analysis, evidence, reasoning, fallacies, briefing, and delivery. Actual experience in debating provided in class. Prerequisites, Speech 101 and 102 or 202. 3 hours. Winter.
209. **Forensic Activities.** Not more than three quarter hours of credit, and not to exceed two each year, to be secured for participation in forensic activities. 1 hour. Each quarter.  
Note: No credit in excess of nine hours allowed for forensic and dramatic activity courses.
213. **Speech Composition.** A detailed study of the rhetorical techniques applicable to public address. One major speech prepared, with careful working out of every possible refinement. Prerequisite, Speech 102. 4 hours. Fall and Spring.
301. **Persuasion.** A study of the psychological principles involved in influencing individuals and groups, and their application to various types of speech situations. Prerequisites, Education 206, and 12 hours of speech. 4 hours. Fall.
303. **Business and Professional Speaking.** Consideration of the specific speaking needs of business and professional people. Technical reports and lighter types of speaking included in the types studied. Primarily for adult and extension classes. 4 hours. Winter.
309. **Forensic Activities.** Similar to 209. Prerequisites, 18 hours of speech and junior standing. 1 hour. Each quarter.
401. **Lecture and Lecture Recital.** A study of the particular problems of the longer speech. Each student required to prepare and give a lecture or lecture recital of an hour's duration. Prerequisite, Speech 301. 4 hours. Winter.
407. **History of American Oratory.** A study of the outstanding orators who have played significant parts in the development of the American way of life. 4 hours. Spring.

### Theater

106. **Introduction to the Theater.** Study of the relations between the drama, the audience, and the theater, with a view to enriching (1) the general student's enjoyment of plays and motion pictures and (2) the theater student's background for practical work in play production. 4 hours. Winter.
204. **Acting.** A study of acting techniques, practice in class exercises, one-act and major plays. Prerequisite, Speech 103. 3 hours. Fall and Spring.
206. **Stagecraft I.** A study of the techniques of production in the non-professional theater. Actual participation in work on Little Theater productions. 2 hours. Each quarter.
208. **Dramatic Activities.** One hour credit per term, but not more than two per year to be earned by participation in major college plays. 1 hour. Each quarter.
214. **Stagecraft II.** A continuation of 206. Prerequisite, Speech 206. 2 hours. Each quarter.
302. **Play Production.** Problems and procedures in the selection and production of plays for the educational theater. Prerequisite, Speech 206. 4 hours. Fall.

- 308. Dramatic Activities.** Same as 208, but requiring 18 hours of speech and junior standing. 1 hour. Each quarter.
- 310. Children's Theater.** The application of principles of production to the dramatization of children's stories, and to the presentation of plays specifically for children. Prerequisites, Speech 302 or 312. 3 hours. Fall.
- 312. Stage Design.** The elements of design in lighting, settings, costumes. Prerequisites, Speech 106, 204, 206. 4 hours. Spring.
- 313. History of the Theater.** Study of the development of the theater from primitive times to the present day. Prerequisite, Speech 302 or 312. 4 hours. Winter.
- 402. Directing.** Selection of plays, casting, and methods of rehearsal. Development of characterization, control of tempo, and similar problems studied. Students to direct or aid in directing one-act and major plays. Prerequisites, Speech 204, 206, and 312. 4 hours. Fall.
- 403. Aesthetics of the Drama and the Theater.** A study of the principles and practice of dramatic production in the light of modern aesthetic theory. A course attempting to formulate an aesthetic judgment of the theater. Prerequisite, Speech 402. 4 hours. Spring.

### Interpretation

- 103. Reading Aloud.** Technique of reading prose aloud intelligibly to an audience. A basic course in oral interpretation for any student whose vocation may call for him to read aloud to others; for example, ministers, teachers, radio announcers, etc. 4 hours. Each quarter.
- 215. Reading Poetry and Narrative Prose.** The techniques of interpreting poetry and narrative prose. Prerequisite, Speech 103. 4 hours. Spring.
- 314. Reading Dramatic Dialogue.** The principles of interpretation as applied to dramatic dialogue. Prerequisite, Speech 103. 4 hours. Fall.
- 404. Recital and Lecture Recital.** The preparation and delivery of programs of interpretative material for varied occasions and audiences. Prerequisite, 8 hours of interpretation. A public recital to climax the work of the course. 4 hours. Winter.

### Radio

- 107. Radio Speaking.** The study and practice of suitable speech before the microphone. Particular attention paid to adaptation of material and manner to the unseen listener. Prerequisite, Speech 103. 3 hours. Each quarter.
- 216. Radio Production.** Simple production techniques, such as used in conventional radio programs, studied and practiced. Students to assist in the production of University radio programs as well as in classroom projects. Prerequisite, Speech 107. 4 hours. Fall.
- 311. Script Writing.** The work of the course to include continuity writing, adapting materials for radio, and original scripts. Much of the work of the course done for radio programs actually being produced, so that the student will have an opportunity of hearing his work as a finished product. Prerequisite, Speech 216. 4 hours. Spring.

316. **Advanced Radio Production.** More advanced techniques, as used in radio dramas; use of musical backgrounds and sound effects to achieve moods, etc. An opportunity for practical radio work provided for this group. Prerequisite, Speech 216. 4 hours. Winter.
317. **Radio Workshop.** An activity course in practical radio experience. Up to six hours' credit possible to be earned by repeating the course. Prerequisite, 7 hours of radio. 2 hours. Each quarter.

### Speech Correction

105. **Phonetics I.** The International Phonetic Alphabet studied and applied to the analysis of the sounds of the English language. 3 hours. Fall and Spring.
211. **Phonetics II.** The dialects of English; foreign dialects, including Scotch, Irish, Cockney, Yiddish, Mountain, German, French, Spanish, Italian, and Norwegian. Prerequisite, Speech 105. 4 hours. Winter.
212. **Speech Correction I.** An introductory course designed to acquaint the prospective teacher or correctionist with the more common articulatory defects which constitute some 90% of the defects found in the public school children. Diagnosis and methodology stressed. Prerequisites, major in education or speech. 4 hours. Fall.
318. **Speech Correction II.** Dealing with nature, etiology, and treatment of stuttering. Prerequisites, Speech 212, Education 305, and Physiology 203. 4 hours. Winter.
319. **Speech Correction III.** Anatomy, neurology, etiology, and systems and principles of correction for cerebral palsy, cleft palate, aphasia, and delayed speech. Prerequisites, Physiology 209a and 300. 4 hours. Spring.
405. **Speech Correction IV.** Clinical training in speech correction. One hour of class per week, plus six hours of supervised clinical work. Prerequisite, Education 426. 4 hours. Each quarter.
406. **Re-Education of Acoustically Handicapped Children.** Principles and techniques of equipping deafened children for a better adjustment to their situation. Prerequisite, advanced standing in Education or Speech. 4 hours. Spring.

### Speech Education

306. **Speech Education.** A consideration of the principles of effective speech teaching in the elementary and secondary schools, through both curricular and extra-curricular speech work. Required of all majors and minors in the College of Education. Prerequisite, 18 hours of speech. 4 hours. Spring.
307. **Story Telling and Children's Literature.** Designed to prepare elementary teachers to tell stories interestingly to children; and to acquaint these teachers with the available literature in the field. Prerequisite, junior standing. 4 hours. Winter.

## DEGREES CONFERRED, 1948

### Degree of Master of Science in Education

Helen Rosalie Brown  
 John Wayne Buckner  
 Louis G. Businaro  
 Phillip Theodore Cain  
 Arthur Bernard Carter  
 Robert Eugene Collard  
 Mary Rose Colombo  
 Mary Louise Cox Dixon  
 Johnnie B. Edmond  
 Ruth Entsminger Etherton  
 Woodrow M. Fildes  
 Joseph Webb Gholson  
 Edward Clyde Goodnight  
 J. Bluford Hancock  
 Lemuel Dalton Harry  
 William D. Hatley  
 Emma Smith Hough  
 Billy Hoyle

William Nyle Huffman  
 Amy Mae Jones  
 David T. Kenney  
 William Nolen Macfarlane  
 Alice Choate Mann  
 Laurence W. Martin  
 Waldo D. McDonald  
 John Albert Moore  
 Francis Randle Paule  
 C. Raleigh Phillips  
 John W. Reps  
 Josie Marie Ruffin-Russell  
 Virgil Lee Seymour  
 William Warren Townes  
 Harry C. Walker  
 William Harold Walker  
 Arnold Wendt  
 Roy C. West, Jr.

## College of Education

### Degree of Bachelor of Science in Education

Betty Opal Adams  
 Genevieve Howerton Adams  
 Kathryn Maloney Adkins  
 James Burrell Aiken  
 Nina Crawford Aikman  
 Robert John Althoff  
 Hazel Marian Andereck  
 Charles Verdell Anderson  
 Harry L. Anderson  
 Willis Boyd Anderson  
 Ella Marie Brinson Arnette  
 Homer H. Badgett  
 Laura B. Baker  
 Wallace Baker  
 Gale Robert Ballard  
 Dorris Jean Bantel  
 George H. Baysinger  
 Marilyn L. Becht  
 Marjorie Lee Bechtloff  
 Donald Wayne Beltz  
 William C. Benninger  
 Robert A. Best  
 Eldon Ellis Bethard  
 William Howard Birch  
 Donald E. Bitz  
 Christina B. Blank  
 Dorothy Rushing Bleyer  
 Evagene Bratten  
 Ray Dickey Brewer  
 Leta R. Briesacher  
 Silas W. Brown  
 Peggy Lou Browning

Larnz William Bruns  
 Norman E. Buckner  
 Dorothy Louise Buddenbaum  
 Leedio Cabutti  
 Mary Elizabeth Caldwell  
 June Cannon  
 Gladys B. Carpenter  
 Mariam Lorraine Carrington  
 Mary Ruth Carruthers  
 Harry W. Carter  
 Wilma Jean Chambers  
 Mary S. Cotter  
 Clarence E. Cox  
 Pauline Rose Crader  
 Loretta Crider  
 Charlotta H. Crim  
 Iona B. Crim  
 Charles E. Crouch  
 Milford J. Crowder  
 Robert R. Curtis  
 Mary Elizabeth Davis  
 Maurice Charles Deniston  
 Leona Dickey  
 Kifton K. Dillow  
 James Beaupré Dodd  
 Ethel S. Doelling  
 John Ellis Dornbach  
 Eugene Duckworth  
 Russell G. Duncan  
 Nona Grace Eade  
 Perry Dale Eisenhauer  
 Maude Marie Eller

## Bachelor of Science in Education Degree—Continued

Howard L. Erickson  
Robert Files Etheridge  
Veda Hallam Etheridge  
Betty Lee Etherton  
Eugenia Janet Etherton  
Bill H. Ferketich  
Alda M. Fiore  
Helen Louise Francis  
Mildred E. Leathers Freeman  
Juanita June Fulkerson  
Alice Jane Newhouse Fults  
Marjorie Elizabeth Galloway  
Lois J. Garner  
Mary Lasater Garner  
Eva Antis Giltner  
C. Harold Goddard  
Howard W. Goin  
Edith Brasel Gooch  
Mary Ruth Goodwin  
Lawrence E. Green  
W. Bayless Grey  
Donald Ray Grubb  
Marian Frances Gruber  
Nicholas R. Gullic  
Raymond D. Hahn  
Helen Marie Hale  
William W. Hall  
Loy Curtis Hancock  
Bruce Gordon Hardesty  
Anna Marie Harn  
Barbara Ann Haroldson  
Sarah Jane Harper  
Jacqueline Jean Harris  
Roy J. Harris  
Ruth Velma Harris  
Richard Keith Harvey  
Peggy G. Hauner  
Betty Louise Hawkins  
Jack Hayse  
Norma Lee Henderson  
Mamie Lence Hertz  
Helen E. Hicks  
Leo Carvell Higgins  
Margie Pauline Hinkle  
Helen Holmes  
Shirley Jean Horton  
Claire Hudgens  
Robert Richard Hunter  
Lucy Barham Ingram  
Mary Alice Ivers  
John L. Jacobs  
Kermit Joseph Jeffers  
Helen Adams Jones  
William T. Joplin  
Annettie Whittington Junkins  
Vertus Casper Keith  
Betty Jo Keller  
Wanda C. Kenney  
Loretta Keough  
Cheseldean Killingsworth  
Margaret Kinsman

Clifton J. Kirk  
Betty Jean Kish  
Ernest J. Knowles  
Nick V. Kostoff  
Naomi A. M. Kuehner  
Edward James Larson  
Verna Lee Legg  
Catherine Lewis  
Ernest Kenneth Limpus  
Bettye June Lockman  
Clarence I. Logan  
Bette Jean Logsdon  
Kathryn Loomis  
Oleva Lovelace  
Arley W. Ludwig  
Paul K. Lynn  
William N. Malinsky  
Charlotte B. Marlow  
Marilouise K. Mashaney  
Kenneth Verdayne Mason  
Charles Carlton Mathieu  
William McBride  
Florine L. McConachie  
Nina Lindsay McLaughlin  
Elaine McRaven  
Edward William Melvin  
Evelyn Meyers Miller  
Frank B. Moake  
William L. Morse  
Ruth Clara Mueller  
John R. Murphy  
Earl W. Murray  
L. C. Myers  
Harley Buntin Neal  
Billie Mae Elizabeth Nehring  
Hazel Nelms  
Chester Forrest Newby  
Dorothy Lee Nicolaides  
Robert S. Nolen  
Flaura Owen  
Raymond E. Owens  
Gus E. Paris  
Ruth Marie Patton  
Minnie C. Peddicord  
Wilma Moore Perry  
Millie Joeetta Person  
Merrill C. Peterson  
Helen Jay Phifer  
Emma June Pinkham  
Mary Lou Pinkham  
LeRoy Pittman  
George J. Pulley  
Dolores Elaine Quigley  
Leonard Earl Rapp  
Charlotte Janet Raubach  
Laura Anderson Raymon  
Jack Edward Reak  
Nedra Reames  
Velma M. Roberts  
Hellen Mary Robertson  
Marie Robertson

## Bachelor of Science in Education Degree—Concluded

Helen Gynelle Robinson	Oral L. Telford
George W. Rodman, Jr.	Joan Fairbairn Terrell
Carl L. Rody	Joseph Toms, Jr.
Marceline Williams Rogers	Dorothy Mae Trefftzs
Mildred Jean Bayless Rowe	Norma Trotter
Mildred E. Schein	Vera Turner
Neal John Schmelzel	Charlotte Elizabeth Tuthill
John William Segraves	Louis Vieceli
Marjorie Beare Seymour	Ralph V. Vinyard
Oliver R. Shoaff	Alice Lucille Vravick
Cecelia E. Sliva	Delbert A. Waller
Lora June Smith	Lynell Avis Weaver
Lorraine Smith	Robert L. Wells
Margery A. Smith	Carol Lee Werner
Paul Smith	Mary Lucinda Whiteside
Velma Ruth Smith	Clem George Wiedman
Leonard J. Snadden	William Dale Wilkinson
Ora M. Snider	Lucille Parrish Williams
Joe Spagnoli	Margaret Irene Woodward Williams
Roger E. Spear	James B. Willmore
Lois M. Sprinkle	William Carl Wimberly
Martha Pearl Stallings	Betty Anne Winegarner
Edwin M. Stanton	Robert Smith Winegarner
Mary Emma Stephens	Hayward L. Wood
Quentin Phillip Stinson	Rose Antonacci Woodward
Halene Elizabeth Street	Nellie E. Wright
Mary Alice Summers	J. Albert Zebio
Mary Henley Tarkington	George Zebrun
Mary Louise Tedrow	Charles L. Zimmerman

## College of Liberal Arts and Sciences

## Bachelor of Arts Degree

Harold Dean Akin	Harry N. McMurray
Wallace Elmus Akin	Edward W. Melvin
Robert C. Ashby	Nedra Alice Midjaas
Vernie T. Barnett	Barton Webster Morris
Robert P. Baysinger	John Woodford Mulkin
Warren Quentin Bradley	James L. Nettleton
Marlin Glenn Bunfill	Mabel C. Paterson
John Maurice Bristow	Horton Edward Presley
Wayne L. Burkey	William Francis Price
William Lynn Casper	Ernest Leslie Propes
Roger Nelson Davis	Robert Pulliam
John Corbin Deadman	Paul William Reeder
Kifton K. Dillow	David Preston Richerson
John Ellis Dornbach	Willard E. Rodd
Wardell Armond England	Lawrence J. Rossel
Robert Files Etheridge	Henry Y. Rowe
Joseph Calvin Evers	Martin Paul Schroedel
Lloyd R. Evilsizer	Clarence Peter Schumaier
Wilma June Ferguson	Albert Jene Shafter
Robert Arthur Gingrich	John Alford Stevenson
Kenneth B. Hedges	Catherine Sullivan
Marilyn June Henderson	Raymond LeRoy Terrell
Billy D. Hudgens	Harold E. Todd
Warren Ernest Lunde	Wanda Preuss Watson
Carl Walker Lutes	Arthur R. Williams
Willis E. McCray, Jr.	Elta Willms
John Samuel McFeron	

**Bachelor of Science Degree**

Charles Barnard Ablett  
Vern Ell Baird  
Harrison E. Bullock  
Gordon Eugene Eade  
Carl Behla Ferrell  
John Albert Hausser  
George W. Lewis  
Shirley Lee Ludwig  
George Thomas Mitchell  
Eugene Allen Monroe

Urie Allen Parkhill  
Karl E. Plumlee  
Robert D. Rawson  
William M. Regenhardt, Jr.  
Charles Gilbert Smith  
Charles L. Swinney, Jr.  
Marvin Ward Teel  
Robert D. Triplett  
Robert S. Winegarner

**College of Vocations and Professions****Bachelor of Science Degree**

Elmer F. Adams  
Edward Holland Aikman  
Tallis Argos  
Clarence Almas Ball  
Samuel L. Endicott  
Elmer R. Gilley  
Harry C. Gunn  
John Hickman, Jr.  
Kinuye Jitodai  
Mary Elizabeth Knight  
Joe Konya, Jr.  
Howard F. Ludwig

Marvin F. McBride  
James Lindsay McPhail  
Marion Thurston Middleton  
Robert E. Pulliam  
George A. Russell  
D. Gene Sanks  
Carl Edward Schluter  
Doris Mae Sims  
Silas E. Smith, Jr.  
Joseph Carl Trobaugh  
William Edward Williams  
Harry Richard Woods

## SUMMARY OF DEGREES, 1948

## Graduate School

## Degree of Master of Science in Education

	Men	Women	Total
June 11 .....	13	6	19
August 6 .....	15	2	17
	<u>28</u>	<u>8</u>	<u>36</u>

## College of Education

## Degree of Bachelor of Science in Education

	Men	Women	Total
June 11 .....	65	77	142
August 6 .....	44	58	102
	<u>109</u>	<u>135</u>	<u>244</u>

## College of Liberal Arts and Sciences

## Degree of Bachelor of Arts

	Men	Women	Total
June 11 .....	36	6	42
August 6 .....	10	1	11
	<u>46</u>	<u>7</u>	<u>53</u>

## Degree of Bachelor of Science

	Men	Women	Total
June 11 .....	12	1	13
August 6 .....	6	0	6
	<u>18</u>	<u>1</u>	<u>19</u>

## College of Vocations and Professions

## Degree of Bachelor of Science

	Men	Women	Total
June 11 .....	15	1	16
August 6 .....	6	2	8
	<u>21</u>	<u>3</u>	<u>24</u>
Totals.....	222	154	376



ENROLLMENT BY COLLEGES, 1948-49

	Education			Liberal Arts and Sciences			Vocations and professions			Totals		
	M	W	T	M	W	T	M	W	T	M	W	T
Spring, 1949												
Graduates-----										114	52	166
Post Graduates-----	2	8	10	1	1	2	2	0	2	5	9	14
Seniors-----	284	141	425	105	10	115	80	3	83	469	154	623
Juniors-----	184	154	338	95	15	110	96	9	105	375	178	553
Sophomores-----	131	154	285	109	16	125	108	25	133	348	195	543
Freshmen-----	184	211	395	144	41	185	197	47	244	525	299	824
Unclassified-----	3	8	11	1	0	1	1	1	2	5	9	14
Total-----	788	676	1464	455	83	538	484	85	569	1841	896	2737

Individuals, Regular School Year, 1948-49-----	2329	1174	3503
Individuals, Regular School Year, 1948-49 and Summer, 1948-----	2670	1595	4265
Individuals, Regular School Year, Summer, and Extension-----	3036	2829	5865



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