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**McPherson College**

FORTY-THIRD YEAR



CATALOGUE  
NUMBER

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McPherson, Kansas  
February, 1930*



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SERIES XIX

FEBRUARY, 1930

NUMBER 1

BULLETIN  
OF  
McPHERSON COLLEGE  
CATALOGUE NUMBER



*Life and Light. -- John 1:4*

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McPHERSON COLLEGE  
McPHERSON, KANSAS

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1930							1931																				
<b>July</b>							<b>January</b>							<b>July</b>													
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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<b>August</b>							<b>February</b>							<b>August</b>													
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31														30	31												
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28	29	30					29	30	31					27	28	29	30										
<b>October</b>							<b>April</b>							<b>October</b>													
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<b>November</b>							<b>May</b>							<b>November</b>													
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<b>December</b>							<b>June</b>							<b>December</b>													
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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28	29	30	31				28	29	30					27	28	29	30	31									

## CALENDAR

1930

- June 2.—Registration for eight weeks Summer Session at McPherson College.
- July 25.—Close of Summer School at McPherson College.
- June 9.—Aug. 15.—Palmer Lake Summer School.
- Sept. 8-9.—Monday and Tuesday, registration for first semester.
- Sept. 10.—Wednesday, first semester begins, opening address, 10:00 A. M.
- Nov. 27-28.—Thursday and Friday, Thanksgiving recess.
- Dec. 19.—Friday, 4:30 P. M., Christmas recess begins.

1931

- Jan. 5, 1931.—Monday, 8:00 A. M., Classes convene after Christmas recess.
- Jan. 12-16.—Registration for second semester.
- Jan. 21-24.—First semester final examinations.
- Jan. 27.—Tuesday, 8:00 A. M., second semester begins.
- May 22.—Friday, 8:00 P. M., Piano Recital.
- May 23.—Saturday, 8:00 P. M., President's Reception to College Seniors.
- May 24.—Sunday, 8:00 P. M., Baccalaureate Sermon.
- May 25-26-27.—Second semester final examinations.
- May 28.—Thursday, Class Day.
- May 28.—Thursday, 6:30 P. M., Alumni Reunion.
- May 29.—Friday, 10:30 A. M., Forty-third Annual Commencement.

## OFFICERS OF ADMINISTRATION

## BOARD OF TRUSTEES

Paul K. Brandt	Holmesville, Nebraska
Roy A. Crist	Quinter, Kansas
E. H. Eby	St. Joseph, Missouri
E. A. Frantz	Fort Worth, Texas
Ira Frantz	Fruita, Colorado
H. J. Harnly	McPherson, Kansas
Orin Harvey	Joplin, Missouri
W. A. Kinzie	Navarre, Kansas
Emry Martin	Bloom, Kansas
B. S. Miller	Altamont, Kansas
Stephen Miller	Carleton, Nebraska
James Mohler	Leeton, Missouri
J. H. Oxley	Ames, Oklahoma
H. G. Shank	Fruitland, Idaho
I. C. Snavely	Haxtun, Colorado
Ray C. Strohm	McPherson, Kansas
F. A. Vaniman	McPherson, Kansas
Ernest Wall	McPherson, Kansas
J. J. Yoder	McPherson, Kansas
V. F. Schwalm, Ex-officio	McPherson, Kansas

## EXECUTIVE COMMITTEE OF THE BOARD

Ray C. Strohm	President of Board
H. J. Harnly	Secretary of Board
J. J. Yoder	Treasurer of Board
F. A. Vaniman	Trustee, S. W. Kansas
Ernest Wall	Trustee, S. W. Kansas
V. F. Schwalm	President of College

## OFFICERS OF THE FACULTY

V. F. Schwalm, Ph. D.	President
H. J. Harnly, Ph. D.	Vice-President
R. E. Mohler, M. S.	Dean of the College
J. A. Blair, A. M.	Registrar
Edith McGaffey, A. M.	Dean of Women
J. H. Fries, A. B.	Business Manager

**GENERAL EDUCATIONAL BOARD  
OF THE  
CHURCH OF THE BRETHREN**

Pres. Paul H. Bowman, Chairman,	Bridgewater, Va.
Pres. V. F. Schwalm, V. Chairman,	McPherson, Kan.
Dr. J. S. Noffsinger, Sec'y-Treas.,	Washington, D. C.
Pres. E. C. Bixler	New Windsor, Md.
Pres. M. G. Brumbaugh	Huntingdon, Pa.
Pres. E. C. Davis	Mt. Morris, Ill.
Dr. D. W. Kurtz	Long Beach, Calif.
Pres. H. H. Nye	Elizabethtown, Pa.
Homer F. Sanger	Oak Park, Ill.
Pres. E. M. Studebaker	Laverne, Calif.
Pres. A. C. Wieand	Chicago, Ill.
Pres. Otho Winger	N. Manchester, Ind.

## FACULTY FOR 1930-1931

VERNON FRANKLIN SCHWALM, A. B., A. M., Ph. D.

*President of the College and Professor of History (1927)\**

A. B., Manchester College, 1913; A. M., University of Chicago, 1916; Ph. D., University of Chicago, 1926; Student, Columbia University, summer 1921; Dean, Manchester College, 1918-1927.

HENRY JACOB HARNLY, B. S., A. M., Ph. D.

*Vice-President of the College, Professor of Physiology, Biochemistry, and Geology (1925, 1892).*

B. S., 1891; A. M., Illinois Wesleyan, 1899; A. B., Harvard, 1892; Ph. D., Illinois Wesleyan, 1900; Special student in Leland Stanford Junior University, 1910-1911; World Tour, 1920-1921.

JOSEPH J. YODER, A. B., LL. D.

*Treasurer of College, Professor of Social Science (1914, 1911).*

A. B., McPherson College, 1913; World Tours, 1920-1921 and 1926-1927; Graduate student University of Chicago, two summers; LL. D., McPherson College, 1927.

JOHN ALVIN BLAIR, A. B., A. M.

*Professor of Education and Psychology, Registrar (1918, 1911).*

A. B., 1917; A. M., University of Kansas, 1918; Graduate student, University of Colorado, 1924; Graduate student, University of Iowa, 1929.

ROBERT ELLSWORTH MOHLER, A. B., M. S.

*Acting Dean of the College and Professor of Agriculture (1928, 1913).*

B. S. D., McPherson College, 1907; A. B., Mt. Morris College, 1912; Michigan Agricultural College, 1913; M. S., Kansas State Agriculture College, 1917; Graduate student University of Wisconsin, 1925, and University of Kansas, summer 1927; Member Seminar, National University, Mexico City, 1929.

\* The first date indicates the year of appointment to present position; the second denotes the year of the first connection with the faculty, when such is not indicated by the one date.



**J. HOWARD FRIES, A. B.**

*Business Manager* (1929, 1916).

Graduate Cambrian Business College, Johnstown, Pa., 1913; A. B., McPherson College, 1926.

**J. WILLARD HERSHEY, B. S., Ph. D.**

*Professor of Chemistry* (1918).

B. S., 1907; M. S., Pennsylvania College, 1910; Graduate student Harvard, 1907-1908; Johns Hopkins, 1911-1912; Ph. D., University of Chicago, 1924.

**MARY EDITH MCGAFFEY, A. B., A. M.**

*Dean of Women and Professor of English* (1927, 1919).

A. B., McPherson College, 1918; A. M., University of Kansas, 1919; Graduate student University of Chicago, summers 1921, 1923, and 1928.

**MAURICE A. HESS, A. B., A. M.**

*Debate Coach and Professor of Latin* (1925, 1919).

Graduate Cumberland Valley Normal, 1908; A. B., Ursinus College, 1914; A. M., University of Pennsylvania, 1917.

**HARVEY HARLOW NININGER, A. B., A. M.**

*Professor of Biology and Curator of the Museum* (1920).

A. B., McPherson College, 1914; A. M., Pomona College, 1916; Graduate student University of California, summer 1918; Traveling Professor, Naturalist and Lecturer, 1927, 1928, and 1929.

**GEORGE NICHOLAS BOONE, A. B., M. S.**

*Professor of Industrial Education* (1923).

A. B., McPherson College, 1921; Graduate student Kansas State Teachers' College, 1923; M. S., University of Wisconsin, 1925; Graduate student, University of S. California, Summer 1929.

**MARGARET HECKETHORN, A. B.**

*Librarian* (1924).

A. B., McPherson College, 1924; Graduate work, summer 1925, Fort Collins, Colorado; summer 1927, Columbia University; Member American Library Association.

JOSEPH L. BOWMAN, A. B., M. S.

*Professor of Mathematics and Physics (1926)*

A. B., McPherson College, 1918; Graduate student, Oberlin College; M. S., University of Chicago, 1924.

J. DANIEL BRIGHT, A. B., A. M., Ph. D.

*Professor of History and Political Science (1926-1928, 1930).*

A. B., Manchester College, 1922; A. M., University of Wisconsin, 1928; Ph. D., University of Wisconsin, 1930.

DELLA LEHMAN, A. B., A. M.

*Professor of English and Expression (1929, 1927).*

A. B., Manchester College, 1921; Graduate student, University of Chicago, summer, 1921; A. M., University of Southern California, 1924. (On leave of absence, first semester 1930-1931).

J. HUGH HECKMAN, A. B., B. D., Th. M., A. M.

*Professor of Theology and Philosophy. (1927).*

A. B., Mount Morris College, 1913; B. D., Bethany Bible School, 1916; Th. M., Bethany Bible School, 1920; A. M., University of Chicago, 1922.

EARL R. BOHLING, A. B., A. M.

*Professor of Commerce (1929).*

A. B., Kansas Wesleyan University, 1927; A. M., University of Kansas, 1929. Summer School, Kansas University, 1929.

MILDRED THUROW, B. S., M. S.

*Prof. of Home Economics. (1929).*

B. S., Kansas State Agricultural College, 1927, M. S., 1929; Summer Student University of Missouri, 1929.

LORA TROSTLE

*Matron (1916).*

OLIVER H. AUSTIN, A. B., B. D.

*College Evangelist (1916).*

A. B., 1915; B. D., 1920, McPherson College.

MRS. HAZEL AUSTIN, A. B.

*Evangelistic Singer* (1916).

A. B., McPherson College, 1920.

MELVIN J. DINFORD, B. S.

*Director of Athletics, Physical Education and Coach* (1930).

B. S., Kansas State Teachers College (Pittsburg), 1926;  
Graduate Student, University of Iowa.

MRS. EARL BOHLING

*Instructor in Stenography* (1930).

Graduate, College of Commerce, Kansas Wesleyan Uni-  
versity.

TO BE SUPPLIED.

*Professor of German and French.*

TO BE SUPPLIED.

*Instructor, Women's Physical Education.*

CLARA COLLINS

*Instructor in Art* (1927)

Bethany College, Artist Certificate Special Student Prof.  
Birger Sandzen, 1927; Student Chicago Art Institute,  
1922; Special Student Mrs. A. Bass, Wichita, Kansas.

#### MUSIC FACULTY

JESSIE BROWN, B. M.

*Director of Piano Department* (1916), *Head of the De-  
partment of Music.*

Diploma from Bethany Conservatory, 1907; B. M., Beth-  
any College, 1910; Piano Instructor in Bethany, 1908-  
1913; Student in Royal Conservatory, Leipzig, Germany,  
1913-1914.

## FERN LINGENFELTER, B. M.

*Instructor in Piano* (1925), *Public School Music* (1927).

B. M., McPherson College, 1925; Student in *Piano* under Thorsen and Lofgren, Bethany Conservatory, Lindsborg, Kansas; Student with Miesner in *Public School Music* and Boguslawsky in *Piano*, Chicago Musical College, summer 1927.

## MRS. ANNA C. TATE, A. B.

*Instructor in Voice* (1928)

A. B., College of Emporia, 1917; Student, Dunbar School of Opera, Chicago, special voice student, Chas. Norman Granville; Student, Madam Schuman Heink, Horner Kansas City Conservatory, 1928.

## MARGARET SHELLEY, A. B., B. M.

*Instructor in Violin* (1929).

A. B., Bethany College, 1927; B. M., 1928; Student New York City Summer, 1929.

## FACULTY COMMITTEES

1929-30

1. Committee on Administration  
Schwalm, Harnly, Yoder, Mohler, Fries, McGaffey.
2. Committee on Classification and Curriculum  
Blair, Mohler, Hershey.
3. Committee on Library  
Hess, Heckethorn, Fries.
4. Committee on Physical Education and Athletics  
Mohler, Boone, Fries, Bowman.
5. Committee on Religious Life.  
Heckman, McGaffey, Lehman.
7. Committee on Chapel  
Hershey, Bright, Tate.
8. Committee on Student Activities  
Hess, Hershey, Boone, Bohling, McGaffey.
9. Committee on Publications and Advertising  
Fries, Harnly, Yoder, McGaffey.
10. Social and Calendar Committee  
Nininger, Fries, Lehman, Brown, Thurow.
11. Freshman Committee  
Bright, Boone, Hess, Bohling, Brown.
12. Teacher Placement.  
Blair.
13. Curators of the Museum  
Nininger, Harnly
14. Student Health  
Harnly, Thurow, Trostle.
15. Discipline Committee  
Mohler, Yoder, Fries, Heckman, McGaffey.

## GENERAL INFORMATION

### LOCATION AND ACCESSIBILITY

McPherson, Kansas, is not far from the center of the state of Kansas. It is in the center of a rich agricultural area which has been made famous by the quantity and quality of wheat produced. More recently it has become famous for its production of oil and gas. The town is a thriving little city of about five or six thousand people and is the seat of government of McPherson County. It is a city of prosperous merchants, beautiful homes, parks, and shade trees, and is surrounded by fields of wheat, corn and alfalfa. The climate is mild and healthful.

McPherson is easily accessible from all parts of the country. The El Paso division of the Rock Island system, over which run daily trains through McPherson. A branch of the Santa Fe system connects McPherson with the main line at Florence and at Ellinwood. The Union Pacific connects McPherson with Salina, and the Missouri Pacific with Eldorado and Newton. McPherson is located on the Santa Fe Trail and the Meridian Highway, and is therefore easily accessible by automobile.

### HISTORY

The history of McPherson College dates back to the year 1887, when at the Annual Conference of the Church of the Brethren held at Ottawa, Kansas, a committee was appointed at an educational meeting to locate and organize a college and industrial institute. The officers of the movement were: S. Z. Sharp, Pres.; M. M. Eshelman, Sec.; and George E. Studebaker, Business Manager.

September 5, 1888, school was opened in Fahnestock Hall, and the enrollment of the year reached almost 200. Owing to a financial crisis, a re-organization took place in 1895. Outstanding indebtedness was soon cancelled and in 1898 the Sharp Administration building was completed. The name, "McPherson College," was adopted in 1898 when a new charter was secured from the State of Kansas.

### IMPORTANT DATES

- 1887—School Committee appointed at Annual Conference held at Ottawa, Kansas.
- 1888—Fahnestock Hall built, and foundation laid for Sharp Administration building.
- 1888—School opened.
- 1895—Reorganization.
- 1898—Institution named "McPherson College".
- 1901—Sharp Administration building completed.
- 1906—Carnegie Library built.
- 1911—Alumni Gymnasium built.
- 1912—Board of Trustees increased to 15.
- 1913—Election of Trustees by District Conferences.
- 1915—New Heating Plant built.
- 1916—Arnold Hall built.
- 1917—Completion of \$225,000 endowment.
- 1919—Erection of Kline Hall.
- 1922—Harnly Hall completed.
- 1927—Membership in The Association of American Colleges.
- 1928—Chapel remodelled and enlarged.

## PRESIDENTS OF McPHERSON COLLEGE

S. Z. Sharp, A. M., 1888—1896.

C. E. Arnold, A. M., 1896—1902.

Edward Frantz, A. M., D. D., 1902—1910.

S. J. Miller, A. M., L. H. D., 1910—1911 (acting President).

John A. Clement, Ph. D., 1911—1913.

H. J. Harnly, Ph. D., 1913—1914 (acting President).

Daniel Webster Kurtz, A. M., B. D., D. D., 1914—1927

V. F. Schwalm, A. M., Ph. D., 1927.

## CONTROL OF THE COLLEGE

McPherson College is the property of the Church of the Brethren, and is under the direct control of the following state districts: S. W. Kansas, N. E. Kansas, S. E. Kansas, N. W. Kansas, Nebraska, Northern Missouri, Middle Missouri, Southern Missouri, Oklahoma, Western Colorado and Utah, Idaho and Western Montana, Louisiana and Eastern Texas, and Eastern Colorado. The trustees, nineteen in number, are all members of the Church of the Brethren, who are influential and aggressive in education. Of the Board, five, constituting an executive committee, have immediate supervision of the school. The president of the College is ex-officio a member of the Board. The Alumni of the college elect one member of the Board. The General Educational Board of the Church of the Brethren has a supervising control over all the colleges of the church.

## PURPOSE AND IDEALS

McPherson College was established in order to provide the young people of the Church of the Brethren with facilities for a thorough Christian education; there is no denominational test for admission, and its doors are open to all persons of good moral character who are in sympathy with the general spirit of the institution.



The College considers education a development of the whole being—body, mind, and spirit. While the most thorough and exacting intellectual discipline is demanded, special care is taken that the whole atmosphere of the school shall be favorable to spiritual culture. High ideals of character are constantly held forth, for true education includes both the acquisition of power and the direction of this power to worthy ends. Training for honorable service for humanity and for appreciation of the best things life affords, are ideals distinctly taught.

### MORAL AND RELIGIOUS INFLUENCES

The high ideals and principles for which the college itself stands, together with most favorable surroundings, combine to impart to the student life a moral tone of an exceptionally high order. McPherson has two colleges, many live churches, a large and active Y. M. C. A., a public library, and other uplifting agencies. It is more nearly free than the average city or town from vices which are likely to prove pitfalls for young people. McPherson depends for its prosperity upon the rich agricultural community which surrounds it. It is an ideal college town; a place in which it is a pleasure to live and to which it is safe for parents to send their sons and daughters.

Devotional exercises for the entire school are conducted in the college chapel and student groups have evening devotionals in the dormitories. The morning watch is observed, and systematic daily Bible study pursued by many. There are Sunday School and two preaching services in the New Church each Lord's day. Active young people's societies exert a strong Christian influence upon the students. The teachers, who always determine the religious tone of an educational institution, are Christian men and women, and their daily work is permeated by the Christian spirit.

McPHERSON COLLEGE  
MATERIAL EQUIPMENT

SHARP ADMINISTRATION BUILDING

The main building, finished in 1898, is ninety-four feet wide by one hundred seventeen long, and contains three stories. In this building are the Chapel, recitation rooms, commercial hall, the book store, Y. W. C. A. room and the Administration offices.

FABNESTOCK HALL

The men's dormitory, built in 1888, is a three-story building, with basement, 40 by 100 feet. The students' rooms are large and well lighted, and are equipped with steam heat. There are baths and lavatories on each floor. A man is employed by the college to have general charge of this dormitory.

ARNOLD HALL

The women's dormitory is built of pressed brick, trimmed in Bedford limestone, and is a model of beauty and convenience. It is 32 by 70 feet with a wing 32 by 40 feet, three stories and basement. Kitchen and dining room are in the basement. There are large parlors, matron's rooms, baths and toilet on each floor, and thirty-five students' rooms. The rooms are large, and are furnished with comfortable and substantial furniture. This ideal home for girls is in charge of a competent matron who devotes her time to their comfort and welfare.

KLINE HALL

This dormitory is a commodious three story brick building containing seven suites of two rooms each and eleven single rooms for women. It is modern in every respect. A matron is in charge.

ALUMNI GYMNASIUM

The Gymnasium was erected in 1911. It is a cement block building, 48 by 76 feet, with basement, main floor and gallery. It has baths, dressing rooms and lockers for both men and women.

## HARNLY HALL

Harnly Hall, erected in 1922, is a fifty room, four story edifice, 128 by 54 feet, built of reinforced concrete and brick. All of the science departments are housed in this commodious structure, as are also the departments of Fine Arts, of History, and the Museum.

## THE LIBRARY

The Carnegie Library, erected in 1906, furnishes a convenient study hall for the students. It is a two-story building with reading rooms amply equipped for the needs of students. Dictionaries, encyclopedias, general reference work, bound and current magazines are so placed as to be readily available. Over one hundred current periodicals, covering a wide range of interest, may be found in the magazine rooms.

The Readers' Guide to Periodical Literature makes the leading magazine articles available for reference work, while the card catalogue indexes the books in the stack room. All books and much of the pamphlet material are classified by the Dewey Decimal System, which groups them according to subject matter. The Library is kept up-to-date by the addition of over five hundred books annually. Special care is taken by the instructors and Library committee that these additions shall be the most recent authoritative works in the field.

The Library hours are from 8:00 A. M. to 9:30 P. M. every day except Saturday and Sunday, and from 8:00 A. M. to 12:30 P. M. on Saturday.

## THE MUSEUM

McPherson College possesses one of the best college museums to be found in the middle west. Many friends of the institution have contributed or loaned specimens. The collections include rare and valuable fossils, Indian relics, birds and bird eggs, and one of

the largest collections of meteorites in the West, besides a very large number of historic relics and souvenirs.

The museum is located on the fourth floor of Harnly Hall.

Persons who know of specimens which should be preserved in such an institution should communicate with H. H. Nininger, curator.

#### McPHERSON COLLEGE FARM

The College Farm, consisting of 178 acres, is located just south of the Campus. The farm is fully equipped with machinery, buildings, and livestock. It is under the direct management of the department of Agriculture. Many experiment plots are conducted for the benefit of the students of Agriculture, but most of the farm is in large fields, and conducted as a demonstration project. Wheat, oats, corn, kafir, and alfalfa are grown. These crops in connection with a dairy, hogs, and poultry make up the business of the farm.

### LABORATORIES

#### AGRICULTURE

The laboratory is equipped to give courses in Soils, Dairying, Farm Mechanics, and Farm Crops. The following rather expensive pieces of equipment are to be found: soils shakers for mechanical analysis, Babcock tester, gasoline engine, cream separators, incubators, electric oven, seed tester, dynamometer, colormeter, soil tubes, great quantities of glass ware, and numerous other smaller items, such as must be found in a modern laboratory.

#### BIOLOGY

The material equipment consists of modern microscopes, projection microscopes, stereopticon, bal opticon, microtome, paraffine baths, electric incubator and sterilizer, and other general apparatus, mi-

microscopic and lantern slides, latest maps and charts, collections of birds, mammals, and insects for systematic study, herbarium, etc.

There is a good collection of lepidoptera and coleoptera, besides a general collection of insects for class work in classification. In Botany there are herbarium, slides, and other necessary things for efficient laboratory work. McPherson County is rich in flora and fauna, since in it there are four or five geologic formations. The basin area is especially rich in protozoa, while two rivers and several running streams and many springs are rich in cryptogams and lower animal forms.

The department has a good reference library.

#### CHEMISTRY

The Department of Chemistry occupies the first floor of Harnly Hall, which is a modern fire proof building designed after most approved models of the best scientific buildings in the country. This floor contains a lecture room with a raised floor, seating one hundred and fifty students; a laboratory for general and qualitative analysis, with individual desks for 112 students; an advanced laboratory with desks for 66 students to work individually, and room for desks for 20 students to be added later; a store room; a large stock room; a private laboratory; an office; and a balance room. All the laboratories are equipped with hoods with forced drafts, water, gas, air under pressure, and duplex plugs with push connections in all the hoods and in each table of the advanced laboratory for electrical experiments. The laboratories are equipped with all necessary apparatus for the courses offered.

#### GEOLOGY

The department possesses a complete set of crystal models imported from Germany, a collection of minerals, rocks, and fossils, sufficient to illustrate the fundamentals of the science. The collections are especially rich in local minerals, rocks, and fossils.

McPHERSON COLLEGE  
HOME ECONOMICS

The department is equipped with all the necessary apparatus for general class and laboratory work. The courses of instruction given in this department are planned to meet the needs of those who desire a knowledge of the general principles and facts of Home Economics and those who wish to major in Home Economics for the purpose of teaching the subject in secondary schools.

MANUAL ARTS AND INDUSTRIAL EDUCATION

The Industrial Education Shops occupy six rooms of the basement of Fahnestock Hall. The Manual Training Bench room is equipped with benches, tools, and locker systems that accommodate fifteen students in a class. The machine room contains a variety of machines such as a band saw, universal circular saw, hollow chisel mortiser, a jointer, two turning lathes, a motor driven grinder, drill press and two mechanical sanders. The general tool room contains all of the various types of special tools that have been found necessary for general cabinet work. The drafting room is equipped with six regular drawing tables and with necessary drawing board racks, and lockers. A special dark room fitted for producing blue prints electrically is part of the drawing room equipment.

The lumber room contains at all times a fine assortment of kiln dried lumber for cabinet making purposes. In connection with the shops a store is maintained that carries a complete stock of all regular and special hardware that is needed in this type of work. A wide variety of finishes is kept in stock at all times enabling the student to do nearly any type of finish desired. A special fireproof booth fitted with an exhaust system and equipped with the latest type of lacquer spraying apparatus is maintained in connection with the finishing room. Much effort is made to keep at hand everything that is ordinarily needed in any phase of Manual Training.

Special equipment is maintained for teaching the course in Home Mechanics,

### PHYSICS

All necessary apparatus is at hand to give properly courses in Physics. An engineers' transit of modern make and accurate construction is a part of the equipment for surveying work. The laboratory is also equipped with an excellent 4-inch astronomical telescope and a set of 100 astronomical slides including the best and latest celestial photographs from the Yerkes Observatory. These lend interest to work in astronomy and make possible a much more intensive study of the heavens.

## COLLEGE ACTIVITIES

### GOVERNMENTAL

The Student Council, composed of two members from each college class, one from the fine arts department, and two from the faculty, is in charge of all student activities of the College.

### RELIGIOUS

The Y. M. C. A. and the Y. W. C. A. provide opportunities for expression of the religious interests of the students. They hold regular religious meetings and conduct the student prayer meetings.

The World Service Group is composed of those students who plan to enter or have a particular interest in fostering religious work.

### LITERARY AND SCIENTIFIC

The Forensic Club offers opportunity for development in debate and oratory. In addition, membership in the Kansas Intercollegiate Debating League, the Kansas Intercollegiate Oratorical Association, the Intercollegiate Peace Association and the Intercollegiate Anti-Tobacco Association brings to McPherson students many opportunities to meet debaters and orators from other colleges of the state in forensic activities of high character. In oratory, prizes amounting to fifteen dollars are offered an-

dually by Mr. W. E. Ray of Houston, Texas. Substantial prizes are offered to state winners in the several oratorical contests. The Thespian Club studies and presents a few dramas each year. Membership is obtained by try-out. The Chemistry Club furthers the interests of students in chemistry.

#### MUSICAL.

The Music Club is a study club organized among the students and townspeople. The Men's Glee Club and the Women's Glee Club are organized for the purpose of producing musical compositions of worth. A chapel orchestra, under the direction of the teacher of violin, gives amateur musicians an opportunity to study and present good musical compositions.

#### PUBLICATIONS

The College Bulletin, designed to keep patrons and prospective students in touch with the College, is published in February, May, August and November of each year. The February number is the catalogue. The Spectator, a weekly newspaper, and the Quadrangle, an illustrated yearbook, are published by the Student Council. The Alumni Association is preparing to issue an alumni magazine. The first number will appear this spring.

#### ATHLETICS AND PHYSICAL TRAINING

All athletic interests of the College are under the supervision of a committee composed of four members from the faculty, one from the Board of Trustees, one from the Alumni Association, and one student, with the physical director as an advisory member.

By means of the gymnasium, an athletic field, and a number of tennis courts the College is prepared to give helpful physical training. All freshmen are required to enroll in a regularly organized physical training class. In addition, students are encouraged to develop their physical skill by participating in various sports during the school year: football, basketball, volley ball, tennis, baseball,



track and field athletics. Those who excel in any sport are privileged to represent the College in intercollegiate contests. Faculty regulations prevent all participation in intercollegiate games on the part of students deficient in their school work or in honor points.

The Women's Athletic Association sponsors an intra-mural athletic program for the women of the College. Membership is open to all women students.

#### LIMITATIONS OF COLLEGE ACTIVITIES

In order to obviate the hardship incident to the holding by the student of several offices at the same time, the faculty has made the following groups, indicating the number of such honors which one student may receive.

##### Group 1

President World Service Group.  
 President Y. W. C. A.  
 President Y. M. C. A.  
 President Student Council.  
 Business Manager the Spectator.  
 Editor the Spectator.  
 Editor the Quadrangle.  
 Business Manager of Quadrangle.  
 Senior Class President

##### Group 2

Associate Editor the Spectator.  
 Treasurer Student Council.  
 Y. M. C. A. Cabinet members.  
 Y. W. C. A. Cabinet members.  
 President Forensic clubs or musical organizations.  
 Student assistants.  
 Member College Quartette.  
 Under class Presidents.  
 Member Varsity Athletic Teams.  
 Debaters who receive no academic credit.

*Group 2*

Members Student Council.  
 Gospel Team worker.  
 Minister doing active outside work.  
 Participants in oratorical contests.  
 Athletic Association.

*Rules*

1. No student may hold more than one position in group 1.
2. A student holding a position in group 1 may also hold one position in group 2 and one position in group 3.
3. A student holding one position in group 1 may also hold two positions in group 3, in case he does not also hold a position in group 2.
4. A student may hold two positions in group 2 and one in group 3, or three in group 3 and one in group 2.
5. It is suggested that so far as possible officers do not succeed themselves.
6. Special arrangements may be made for all athletes not on varsity teams, for students who are working for self-support and for members of senior play cast.
7. The faculty committee on the Student Activities shall enforce these rules.

## THE ALUMNI ASSOCIATION

The Alumni Association of McPherson College is composed of all persons who have received diplomas from any department of McPherson College. At the present time it numbers about 1,600. The purpose of the Association is to bind closer together those that were at one time members of the school, but are now engaged in the active duties of life. The Association attempts as far as possible to keep the addresses of all members, and several times during the year to inform all concerning the activities of the

College. The affairs of the Association are conducted by an executive board composed of fifteen members. The Association has representation on the Board of Trustees.

## EXTENSION DEPARTMENT

McPherson College is ready to be of service in a larger way to high schools, to communities, and to churches. We are prepared to assist in teachers' institutes, parent-teachers' associations, lecture courses, entertainments, and in preaching. All those interested in securing the help of college representatives will please address the president of McPherson College.

## RULES OF CONDUCT

All students are expected to exercise self-control and to put themselves under the restraints which are necessary to maintain the dignity and purpose of the college.

The use of tobacco in any form on College grounds or in college buildings is forbidden. Card-playing, gambling, dancing, secret societies and the use of profanity are also forbidden.

The college reserves the right of asking students whose lack of application or deportment is such as to make their stay in college inadvisable to withdraw without assigning specific reasons for such dismissal.

Students are expected to attend Sunday School and preaching services each Sunday.

Students are not allowed to arrange for socials, class-parties or gatherings of any kind without first obtaining permission from the social committee, and having provided a chaperon acceptable to the committee.

By order of the Board of Trustees, the official study hours are as follows: 8:00 A. M. to 12:30 P.

M., 1:30 to 4:30 P. M., 7:30 to 10:00 P. M. Students should retire not later than 10:30 P. M.

Girls who wish to be away from their study after 7:30 P. M., during the school week are required to obtain permission from the Dean of Women. Similar permission must be secured for all out-of-town trips.

Students living with families are subject to the same rules as students living in the college dormitory in regard to study hours, attendance at chapel and Sunday services, receiving company and all matters pertaining to their deportment. Men and women may not room in the same home. Families wishing to take students as roomers or boarders must arrange with the college management in advance, and agree to see that the rules and regulations are observed.

Parents are urged to keep in touch with the school, and to assist the faculty in bringing about the best results possible in the education and discipline of their children. A student will do better work if not furnished with too much money.

### MISCELLANEOUS INFORMATION

Visitors are always welcome. Guests of the institution should report at the business office so that entertainment may be provided.

All students of the freshman and sophomore classes of the College are assigned to members of the faculty who act as their advisers.

Junior and senior college students choose as advisers the teachers of their respective major subjects.

The president of the college is ex-officio adviser of the senior class.

An official emblem and seal has been adopted by the College and it is expected that all classes and organizations shall restrict themselves to its use.

Students representing the College on Gospel teams will first be approved by the Committee on Religious Life.

Agents and solicitors are not permitted to operate among the students on the college campus without permission from the business manager.

Students should inform their correspondents that all letters and other mail intended for students of the college should be plainly marked "McPherson College," giving the street number or the name of the hall and number of the room, since there are two colleges in McPherson.

All articles necessary for the student's comfort except such as are listed in the expense items will be furnished by the student himself. The student should bring quilts, comforts, blankets, sheets, pillows, pillow cases, napkins, rugs, etc.

## FELLOWSHIPS AND SCHOLARSHIPS

### THE KANSAS UNIVERSITY FELLOWSHIP

Kansas University offers annually a fellowship valued at \$400.00 to a member of the Senior class of McPherson College. The candidate is chosen by the faculty and is recommended to the University for election. Nomination is based upon natural ability, scholarship, character and at least two years of residence work in the college.

### UNIVERSITY FELLOWSHIPS

The leading Universities offer annually fellowships which vary in value from \$300.00 to \$600.00. Members of the Senior class possessing proper qualifications may be recommended for these fellowships.

### BETHANY BIBLE SCHOOL SCHOLARSHIPS

Bethany Bible School of Chicago, Illinois, offers annually three scholarships to members of the Senior class. These scholarships carry stipends, one of \$200.00, one of \$100.00 and one of \$50.00.

### HONOR GRADUATE SCHOLARSHIPS

McPherson College offers annually a limited number of scholarships to honor graduates of high schools. Application blanks may be secured upon request.

## McPHERSON COLLEGE

## LOAN FUNDS

## THE E. B. HOFF LOAN FUND

The late Elder E. B. Hoff and Mrs. E. B. Hoff who now resides at Chicago, Illinois, provided this fund to assist young men and women in McPherson College who are preparing for a life of service in distinctive church work.

## DELLA HOERNER LOAN FUND

Miss Della Hoerner of McPherson has started a loan fund which she promises to increase that will be available for needy girls as a rotary loan fund.

## LYDIA EVANS LOAN FUND

Mrs. Lydia Evans of Kearney, Nebraska, has provided a fund whereby financial assistance may be secured by students who are able to meet the requirements of this fund.

## ELIZABETH KEENER FUND

Mrs. Elizabeth Keener of Hoisington, Kansas, has contributed to a rotary loan fund to help some worthy young woman with school expenses.

## SARAH W. HARNLY FUND

Mrs. Sarah W. Harnly, of McPherson has established a loan fund, to be loaned as a rotary fund for some worthy girl.

## STUDENT'S ROTARY LOAN FUND

The General Educational Board of the Church of the Brethren maintains a fund for the benefit of members of the Church of the Brethren. Through this fund worthy students may secure assistance to the amount of \$100.00 a year at very reasonable terms. Applications for a loan from this fund must be made through and be approved by the officials of McPherson College.

The Kansas Federation of Women's Clubs, The P. E. O. Sisterhood, as well as the local civic organizations of the city of McPherson offer to worthy students loans which may be obtained on reasonable terms.

A limited number of scholarships are granted by McPherson College to students who are preparing definitely for the ministry or for work in the mission fields.

Special terms are given to children of active pastors of the Church of the Brethren within the districts supporting McPherson College.

Further information regarding scholarships and loans will be furnished gladly to any one interested.

### SEMESTER EXPENSES

College tuition, a semester of 18 weeks	\$75.00
Fewer than 12 semester hours or for additional	
hours above 17, a semester hour	6.00
Incidental fee, a semester	10.00
Board and room in dormitory, a semester	100.00
Week rates for board and room will be	
20% above semester rates.	

### TERMS OF PAYMENT

Tuition, Board and Room, and all fees are quoted on a semester basis due at the time of enrollment. Unless other satisfactory arrangements have been made, payment of account is required before the student is enrolled for class work.

A contingent fee of \$5.00 is charged each student rooming in the dormitories. At the end of the school year, after charges are deducted for any unnecessary damage to the room or furniture and for excessive use of electricity, the balance will be refunded. Rooms in the dormitories may be reserved in advance of the opening date by depositing a fee of \$3.00. Credit will be given on room rent for this amount at the time of enrollment. This fee will not be refunded in case applicant does not enroll unless the college is notified at least one month before the opening of school. Because of possible fluctuations in prices the management reserves the right, if necessary, to change above prices during the year.

## REFUND

Students who are compelled to withdraw on account of sickness or for other causes deemed justifiable by the college management will be charged for board and room at week rates. Tuition will be charged at the rate of \$5.00 a week. Incidental and laboratory fees are not refunded.

No refund will be made to students who may be suspended or expelled.

Textbooks and stationery supplies are on sale at the Bookstore for cash.

**SEMESTER LABORATORY FEES  
AND SPECIAL FEES**

Astronomy	\$ 1.00
Advanced Cabinet Making, a semester hour	1.50
Biology, any laboratory course	3.00
Chemistry, five hour laboratory course	6.00
Dairying	3.00
Dietetics	7.00
Experimental Psychology	1.00
Foods	7.00
Farm Crops	2.00
Histology	3.00
Home Mechanics, a semester hour	2.50
Hygiene	1.00
Mineralogy	2.00
Physics, course 2	1.00
Physics, other laboratory courses	4.00
Physiology	1.50
Sewing	2.00
Soils	2.00
Surveying	2.00
Typewriting	5.00
Woodwork, I, II, a semester hour	1.50
Woodturning, a semester hour	2.50
Late Registration	1.00
Special Examination	1.00
Application, elementary state certificate	2.00
Transcripts of credit, duplicate copies	1.00
Graduation fee	10.00



## THE COLLEGE

### REQUIREMENTS FOR ENTRANCE

The total requirements for admission shall be 15 units, 6 of which shall be chosen from groups I to IV, as indicated below. The remaining 9 units may be chosen from the subjects outlined in the six groups.

All entrance conditions must be satisfied during the freshman year if the student is to be catalogued as a sophomore.

Group I.—English: Minimum, 3 units.

Group II.—Mathematics: Minimum, 1 unit.

When the minimum requirement only is presented it shall be Elementary Algebra, 1 unit.

Group III.—Science: Minimum, 1 unit. General Science, 1 unit; Botany, 1 unit; Zoology, 1 unit; Entomology, 1-2 unit; Physics, 1 unit; Biology, 1 unit; Chemistry, 1 unit.

Group IV.—History and Social Science: Minimum, 1 unit. Ancient and Medieval History, 1 unit; Modern History, 1 unit; American History, 1 unit; Civics, 1 unit.

The order in which the History shall be taught is that outlined in the manual of the State Board of Education.

Group V.—Foreign Languages: Minimum, none.

Group VI.—Miscellaneous: Maximum, 5 units. Agriculture, 3 units; Commerce, (maximum, 3 units) including Bookkeeping, 1-2 or 1 unit; Commercial Law, 1-2 unit; Stenography, 1 unit; Typewriting, 1 unit; Domestic Science, 1 unit; Domestic Art, 1 unit; Music, 2 units; Drawing, 1 unit; Manual Training, 2 units; Methods and Management, 1-2 unit; Psychology, 1-2 unit; Commercial Geography, 1-2 unit; Bible, 2 units.

## REQUIREMENTS FOR GRADUATION

## RESIDENCE REQUIREMENTS

In order to qualify as a candidate for a college degree a student must spend a minimum of one year of residence in McPherson College. The standard set by the State Department of Education for Kansas Colleges requires that twenty-four of the last thirty hours or fifty out of the last sixty hours necessary to complete work for a degree be completed in residence in the college issuing the degree.

## JUNIOR-SENIOR REQUIREMENT

Graduates of Kansas Colleges must complete a minimum of forty hours in Junior-Senior courses. Junior-Senior courses include all courses in the catalogue and schedule numbered from 100-199 inclusive. It is also obligatory that the candidate for graduation submit a minimum of ten hours of Junior-Senior courses from his major department.

## MAJOR REQUIREMENT

Not later than the beginning of the junior year, each student is required to select as his major subject the work of some one department in the college, and, in consultation with the head of this department, to determine the manner and order in which the work of the major subject shall be completed. A major shall consist of not fewer than 24 hours nor more than 36 hours. Not fewer than 30 hours nor more than 48 hours may be selected from the group in which the major is listed, except in group II in which a maximum of 60 hours is allowed.

## GROUP REQUIREMENTS

The student must select work in the College groups as specified below. All students must complete a minimum of thirty-six hours of group requirements before eligible to qualify for junior standing. I. English—10 hours required. Student offering the minimum requirement must choose Rhetoric and Literature.

II. Mathematics and Physical Sciences—8 hours required.

III. Biological Science—8 hours required.

IV. Bible, Philosophy and Religious Education—9 hours required, six of which must be Bible.

V. Social Science—12 hours required, six hours of which must be in history.

VI. Education—3 hours required.

VII. Foreign Language. All candidates for the Bachelor of Arts degree must during their high school and college course have completed at least three years in foreign language. This may consist of three years of one language or two years of one language and one year of another.

VIII. Commerce

IX. Vocational  
Home Economics  
Manual Training  
Agriculture

X. Fine Arts.

## SUPPLEMENTARY REGULATIONS

### STUDENT LOAD

The average student load is fifteen hours a semester. Only the exceptional student should take more. The maximum for freshmen is sixteen hours. Others are limited to seventeen hours except by special permission of the Committee on Classification.

### STUDENT CLASSIFICATION

In order to classify as a sophomore the student must present twenty-four hours of academic credit at the beginning of the year; as a junior, fifty-four hours; and a senior, eighty-four hours. All students must keep their first semester classification throughout the year except those juniors who will be candidates for graduation at the end of the summer session.

## DEGREES

The courses of study lead to the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Science in Commerce, and Bachelor of Music.

## BACHELOR OF ARTS

In order to qualify for the Bachelor of Arts degree the student must submit a total of one hundred twenty-two semester hours credit including two semester hours of physical education, and a total of 122 honor points earned in accordance with the honor point system. A semester hour consists of one hour of recitation work or two (or three) hours of laboratory work a week for a period of eighteen weeks.

## BACHELOR OF SCIENCE

The requirements for the degree Bachelor of Science are the same as the Bachelor of Arts except in the following particulars:

- (a) Foreign language is not required but some modern language is advised.
- (b) A major must be submitted in natural science, home economics, manual arts, or agriculture.

## BACHELOR OF SCIENCE IN EDUCATION

The Bachelor of Science in Education presumes a major in Education including methods, theory, and practice in teaching. Foreign language is not required but otherwise the requirements are the same as for the Arts degree.

## BACHELOR OF SCIENCE IN COMMERCE

The Bachelor of Science in Commerce differs from the Arts degree in that Foreign language is not required and credit is allowed in stenography, typing, and office practice.

## BACHELOR OF MUSIC

Descriptive requirements for the degree Bachelor of Music will be found in connection with the information on the Department of Music.

## SUGGESTIVE GENERAL JUNIOR COLLEGE COURSE

### FRESHMAN YEAR

SEMESTER I	hrs.	SEMESTER II	hrs.
Rhetoric	3	Rhetoric	3
Math. or For. Lang.	3	Math. or For. Lang.	3
Chem. or Biol.	3-5	Chem. or Biol.	3-5
Psychology or Physiology	3	Psychol. or Physiol.	3
Orientation	1	Physical Education	1
Phy. Education	1		
<b>Electives</b>		<b>Electives</b>	
Agriculture		Agriculture	
Commerce		Commerce	
Bible		Bible	
Manual Training		Manual Training	
Music		Music	
Home Economics		Home Economics	
History or Social Science		History or Social Science	

### SOPHOMORE YEAR

English Literature	3	English Literature	3
Bible	3	Bible	3
European History	3	European History	3
<b>Electives</b>		<b>Electives</b>	
Science		Science	
Commerce		Commerce	
Methods		Management	
Speech		Speech	
For. Language		For. Language	
Home Economics		Home Economics	
Music		Music	
Agriculture		Agriculture	
Mathematics		Mathematics	
Manual Training		Manual Training	
		Hygiene and Sanitation	

## SUGGESTIVE PRE-MEDICAL COURSE

## FRESHMAN YEAR

SEMESTER I		SEMESTER II	
	hrs.		hrs.
Rhetoric	3	Rhetoric	3
Mathematics I	3	Mathematics II	3
Chemistry I	5	Chemistry II	5
Zoology	3	Zoology	3
Orientation	1	Psychology or History	3
Phy. Education	1	Phy. Education	1

## SOPHOMORE YEAR

Physics	5	Physics	5
French or German	3	French or German	3
Organic Chem.	6	Organic Chem.	6
Comparative Anatomy	3	Comparative Anatomy	3

The following additional courses are suggested:

Psychology	Latin
History	Quantitative Analysis
Economics	Sociology
	Histology

## SUGGESTIVE PRE-ENGINEERING COURSE

## FRESHMAN YEAR

Rhetoric	3	Rhetoric	3
Mathematics I	3	Mathematics II	3
Chemistry I	5	Chemistry II	5
Mechanical Drawing	2	Machine Drawing	2
Wood Work	2	Wood Work	2
Physical Education	1	Physical Education	1

## SOPHOMORE YEAR

Physics	5	Physics	5
Plane Anal. Geometry	4	Calculus	6
French or German	3	French or German	3
Quant. Analysis	4	Quant. Analysis	3

For an outline of special courses in Commerce see pages 80-81.

## SCALE OF GRADING

The letter "A" indicates high honor and is reserved for very distinguished work.

The letter "B" indicates very good work of much more than average quality.

The letter "C" indicates that the work has been of good average quality.

The letter "D" indicates that the work has been the lowest in quality that will enable the student to pass the course.

The letter "I" indicates that work is incomplete.

The grade "Condition" indicates that the quality of the work is near failure.

The letter "F" indicates failure.

A grade of "I" may be changed to a passing grade by completing the incomplete work to the satisfaction of the teacher. A grade "condition" is usually given when the quality of the work is not entirely satisfactory. An extra examination or extra work may be required by the teacher for a passing grade. A grade "F" may be removed only by re-enrolling in the course. A fee of one dollar is charged for all extra examinations. This fee is to be paid in the Business Office.

## HONOR POINT SYSTEM

The following honor point system has been adopted.

Grade "A" carries three honor points for each hour of credit.

Grade "B" carries two honor points for each hour of credit.

Grade "C" carries one honor point for each hour of credit.

Grade "D" carries no honor points.

Candidates for a degree must have as many honor points as credit hours required for graduation, viz: 122.

A student is allowed as many absences from class each semester without loss of honor points as there are number of hours credit received for the course. The number of absences from chapel permissible each semester without the loss of honor points is three. Absences in excess of above will cause loss of honor points at the rate of one honor point for each absence. Three tardies shall be considered equivalent to one absence and shall operate towards a proportional reduction in honor points. Any absence immediately before or after any vacation shall operate to reduce two honor points instead of one.

In case a student is absent from the institution representing it in a public capacity such absences shall not operate to cause a loss of honor points for such actual and necessary absences. The following activities shall be deemed to come under this provision: Public athletic contests, debates, oratorical contests, and such other activities as are duly approved by the Dean.

### HONOR STUDENTS

To be eligible for the honor roll, students must earn a minimum of forty honor points during the previous semester. A list of honor students shall be compiled and appropriately advertised at the close of each semester. This list shall be known as the honor roll of McPherson College.

### HONOR GRADUATES

McPherson College gives consideration for excellency in scholarship during the college course by graduating students with the following honors:

Students who earn a minimum of forty per cent of A grades and not more than a maximum of ten percent of C grades are cited for Honorable Mention.

All students who earn during their college course a minimum of sixty per cent of A grades and not more than a maximum of eight per cent of C grades, are recommended for the honor roll and presented with an appropriate emblem of the college.



All students whose college record shows a minimum of eighty per cent of A grades and no grade below B shall be graduated with Highest Honor and presented with an appropriate emblem for this high achievement.

### STATE TEACHERS' CERTIFICATES

1. McPherson College fulfills the requirements of the laws of Kansas and the State Board of Education for the certification of teachers. Any graduate of the Arts or Science Course who shall have met the minimum state requirement of eighteen hours of Education, including three hours of General Psychology, three hours of School Administration, and three hours of Educational Psychology, may receive the three year renewable state teacher's certificate. This certificate is valid in any high school or elementary school in the state. At the completion of two years of successful teaching before the expiration of the certificate, the holder of the certificate may have it renewed for life. This renewal may be obtained by application to the State Board of Education.

2. Graduates of any approved four-year high school who complete two years' work at McPherson College and include in the two years the professional branches required by the State Board of Education, namely, three hours of Methods in Education and three hours of School Management, are entitled to a three-year certificate without examination. This certificate is valid in any elementary school. This certificate is renewable for three-year periods upon completion eight hours additional work before expiration. After September 1, 1930, all applicants for this certificate must submit three semester hours credit in Supervised Observation and Teaching in addition to the nine hours as required at present.

### COURSES OF INSTRUCTION SYSTEM OF NUMBERING COURSES

The courses of instruction are numbered according to the following system :

(a) Courses open to Freshmen and Sophomores are numbered 1-99 inclusive.

(b) Courses open to Juniors and Seniors are numbered 100-199 inclusive.

(c) Odd numbers indicate first semester courses.

(d) Even numbers indicate second semester courses.

## AGRICULTURE

PROFESSOR MOHLER

### 5. FARM CROPS.

This course is a scientific study of the field crops. Special emphasis is placed upon the leading cereal crops of this region, the best methods of production, preparation of the seed bed, and methods of improvement. This course consists of class work, lectures, field trips, and observation work on the experiment plots. Three hours, first semester.

### 7. SOILS.

This is a course planned to give the student a general insight into the subject of soils. The physical properties of soils and their relations to tillage and the preparation of the seed bed, soil texture, structure, moisture, heat, together with other phases of soil physics are given careful consideration. Two recitations and one laboratory period a week. Three hours, first semester.

### 15. ANIMAL HUSBANDRY.

A survey of the animal husbandry industry; study of breeds, pedigrees, judging and management. Lecture two hours, laboratory two hours. Three hours, first semester.

### 24. GENETICS.

A careful study of variation; inheritance of acquired characters; Mendelism; mutation; linkage; modern views on the improvement of both plants and animals. Three hours, second semester.

**10. ORNAMENTAL GARDENING.**

This course consists of a study of the principles, materials, and practice of ornamentation of the home grounds, together with a study of civic improvements. Lectures, assigned readings, and laboratory work. Two hours, second semester.

**110. FARM MANAGEMENT.**

The purpose of the course is to consider the farm as a business proposition. A survey is made of some of the more successful farms in the community with a view of determining labor incomes, methods of carrying on business, etc. Three hours, second semester.

**116. MARKETING OF AGRICULTURAL PRODUCTS.**

Problems and methods of marketing agricultural products and raw materials, including marketing services, agencies, and methods. The middleman, distribution, standardization, market analysis, price, price fixing and marketing cost. Three hours, first semester.

**125. ANIMAL HUSBANDRY.**

This course is a study of animal nutrition, and is a fundamental course for all students of agriculture, a study of the processes of assimilation and digestion, feeds and their component parts, the balancing of rations. Prerequisite: Chemistry 1, and 2. Three hours, first semester.

**141-142. PROBLEMS IN AGRONOMY.**

An advanced study of the problems of crops and soils. Students sufficiently advanced and capable of doing research work will be admitted into the course. By appointment. Two hours, each semester.

**ASTRONOMY****PROFESSOR BOWMAN****101. DESCRIPTIVE ASTRONOMY.**

A study of the planets and their motions, the moon and other satellites, meteors, comets, and sun

spots, eclipses and surface conditions of the sun. No mathematics is required. There will be occasional evening observations of the stars, moon and planets with the naked eye and with the telescope. Two hours, first semester. (Not offered 1930-31).

#### 102. ASTROPHYSICS.

A continuation of the course in descriptive astronomy, with a special study of the composition of the sun, stars, nebulae and comets, and the methods used in determining their velocity, size and distance. Two hours, second semester. (Not offered 1930-31).

## BIBLE AND THEOLOGY

PROFESSOR HECKMAN

The immediate purpose in this department is to acquire an intelligent understanding of the nature and significance of the Bible, and a working knowledge of how to make use of it. An ultimate aim is the enrichment of personal experience in Christian faith and equipment for effective service in the church. Our point of view is practical rather than speculative.

By action of the State Board of Education twelve hours in accredited Bible Study may be presented toward the requirements of graduates applying for the State Teacher's Certificate. The subjects should be selected with the aid of the teacher of the Bible Department.

#### ACCREDITED RELATIONS WITH BETHANY BIBLE SCHOOL.

##### I. Credits allowed in McPherson College.

##### 1. On her College Course McPherson College

(a) Will credit thirty (30) semester hours of strictly Theological work, and thirty semester hours of other courses, such as Greek, Sociology, etc., taken in Bethany Bible School—provided the student is not an applicant for a Kansas State Teacher's Certificate.

(b) Or will allow for twelve (12) semester hours of strictly Biblical and Theological work, and thirty se-

master hours of other courses, for example, Sociology, Ethics, Greek, etc., if a Kansas State Certificate is desired.

Note: (In the former case if as much as thirty (30) semester hours of credit are allowed, the student must sign a blank form waiving his right to be an applicant for the Kansas State Teacher's Certificate, unless he fulfills completely the state requirements.)

## II. Credits allowed by Bethany Bible School.

1. *In her Seminary Courses* will credit work done in McPherson College to the extent of twenty (20) semester hours provided

(a) That this work is strictly of a professional character.

(b) That it is taken in the Junior and Senior year of College.

Professional Theological Courses in excess of the North Central Association requirements for A. B. are accepted in full if the work is done under standard conditions.

2. *In her Training School* Bethany Bible School will credit all Theological courses taken in McPherson College

Courses 1 and 2 in Bible may not apply on requirements for a major in this department.

Students majoring in Group IV shall not fail to select Courses 20, 21, and 121 in Bible and Courses 1 and 150 in Philosophy.

### 1. BIBLE INTRODUCTION

A historical survey of the whole Bible, with emphasis upon Hebrew history, types of literature, compilation, canonization, translation, inspiration, and method in Bible study. Given each year. Three hours, first semester.

### 2. LIFE OF CHRIST.

A study of the four Gospels with a view to working familiarity with the actual facts of Jesus' life. Conditions in Palestine are considered and attention is given to a harmony of the Gospel materials. Three hours, second semester.

### 20. NEW TESTAMENT LITERATURE.

The Acts, Epistles, and Revelation are carefully studied for information as to their writers, their his-

tory, and their message in relation to the life of the early Christian church and their bearing upon life today. Three hours, second semester.

21. OLD TESTAMENT LITERATURE.

All books of the Old Testament are classified, their major messages noted, and prominent selections are given special emphasis. Three hours, first semester.

106. HEBREW POETS, SAGES AND PROPHETS.

The poetical, philosophical, and prophetic figures and writings of the Old Testament are studied. Special emphasis is given to the Psalter, Job, and Isaiah. Three hours, first semester.

111. TEACHINGS OF JESUS.

An advanced course in the materials of the Gospels, emphasizing the doctrines of the Christian life as taught by Jesus himself. The world in which he lived, the forms of his teaching, and present-day applications, all come in for a share of attention. Three hours, first semester.

121-122. CHURCH HISTORY.

This course seeks to give the student a general view of the field. Periods which are of special interest and importance are emphasized. It is the purpose of the program to serve the needs of those who are preparing for active religious work. Three hours, both semesters.

140. CHRISTIAN THEOLOGY.

A study of the rise and development of prominent theological doctrine in Christian history, and a comparison of this with the teaching of the New Testament. Three hours, second semester.

150. COMPARATIVE RELIGION.

A careful study of the non-Christian religions of the world for their values, with a view of understanding how Christianity excels and fulfills the hopes of them all. Three hours, second semester.

50. PRINCIPLES OF PREACHING.

A practical study of the business of preaching

for its place in the Christian world, principles of sermon-making with the use of Bible material, and the actual art of delivering an effective pulpit message. Pre-requisite: Bible 1. Given alternate years. Three hours, second semester.

#### 71-72. FIRST YEAR NEW TESTAMENT GREEK.

This course is designed to give students a familiarity with the vocabulary and style of the Greek New Testament. It consists of a study of grammar and composition, with much drill on forms. Given alternate years. Three hours. Both semesters.

#### 73-74. SECOND YEAR NEW TESTAMENT GREEK.

Characteristics of the Greek of the New Testament period; principles of syntax; translation of Luke's Gospel and other portions; principles of exegesis from the Greek. Prerequisite: one year of preparatory Greek. Given alternate years. Three hours, both semesters.

## BIOLOGY

DOCTOR HARNLY

PROFESSOR NININGER

The courses offered in this department have been selected with the following purpose in view: (1) To prepare the general student better to appreciate the world in which he lives through a knowledge of plant and animal life, (2) to meet the entrance requirements for medical college, (3) to prepare those who expect to teach biological subjects in high schools, and (4) to introduce the scientific method. Major students shall present from other departments before graduation the following credits: Chemistry and Physics, 10 hours; General Geology, 3 hours.

#### 5-6. GENERAL ZOOLOGY.

A general survey of animal life, with special emphasis upon morphology, physiology, reproduction, classification, distribution, and the question of evolution. Two lectures and one laboratory period a week. Three hours, each semester.

## 15. ENTOMOLOGY.

A general course in anatomy, physiology, and classification of insects. Three hours, first semester.

## 16. ENTOMOLOGY.

A study of crop pests, the relation of insects to disease and methods of control. Three hours, second semester.

## 20. BIRDS OF KANSAS

A study of birds in the laboratory and in their natural haunts, with lectures twice a week. Special emphasis is placed upon the economic aspects of bird life. Three hours, second semester.

## 31. GENERAL BOTANY.

A study of the nature and development of plants, with special emphasis upon their value to mankind, their distribution and the various plant associations found in North America.

## 32. GENERAL BOTANY.

A continuation of 31 with special attention to the methods of classifying and identification of our common wild flowers.

## 41. SYSTEMATIC BOTANY.

A course in collecting, preserving, and classifying the local flora. Individual work with conferences. Prerequisite courses 31 and 32. Three hours, first semester.

## 51. PHYSIOLOGY.

A study of the Human Body, for Junior College (Freshman or Sophomore) Students. A cultural and practical study of the human body, its anatomy, histology, physiology, and hygiene. The text used will be Martin, "The Human Body". There will be reference reading, lectures, laboratory work, and demonstrations. The department has a well equipped laboratory with all needed apparatus. Two class hours and two laboratory hours a week. Three hours, first semester.



**60. PERSONAL HYGIENE APPLIED, PUBLIC HEALTH AND SANITATION.**

A very practical course for all who desire a knowledge of the laws of health as they pertain to the individual and the public. How to maintain "that quality of life which renders the individual fit to live most and to serve best". The hygiene of the sex aspect of life will receive special attention. Two hours, second semester.

**105. FRESH WATER ZOOLOGY.**

A systematic study of invertebrates; largely individual work; lectures once each week; Prerequisite: 5 and 6. First semester. Credit in proportion to work done, with a maximum of three hours.

**140. COMPARATIVE ANATOMY.**

A comparative study of vertebrate anatomy. Dissections of the various types and a consideration of the problems of adaption. Special emphasis upon the structure of mammals. Prerequisite 5 and 6, five hours.

**161. HISTOLOGY.**

The physiological histology of man and mammalian animals, based upon the texts, drawings, and preparations of Professor Dr. Fr. Sigmund of Teschen, Austria, microscopic drawings and written descriptions of fifty slides. Six hours laboratory. Three hours, first semester.

**162. HISTOLOGY.****CONTINUATION OF COURSE 161.**

Six hours laboratory, microscopic drawings, and written descriptions of fifty slides. Three hours, second semester.

**163. PLANT ANATOMY.**

This is a course combining microtechnique with plant anatomy. The student prepares his own sections, receiving instruction in sectioning, mounting and staining of specimens which are later studied in detail with a view to discern relationship between

structure and function of various tissues. Prerequisite: General Botany. Three hours. First semester.

#### 171-172. CURRENT BIOLOGY.

An under-graduate seminar, individual reports from current biological journals. One hour, each semester.

#### 180. SCIENCE AND PROGRESS.

A survey of the historical development of the scientific method, with special emphasis upon the biological sciences, and a consideration of the influence of biology upon human progress, past, present, and future. Two hours.

#### 181. BIOLOGICA.

A lecture and reading course, with class discussions, in the study of life, with special reference to ecological development and historic problems. A candid examination of the facts of life, including the theories of evolution and their relation to religious thought. Three hours, second semester.

## CHEMISTRY

DOCTOR HERSHEY

### 1. INORGANIC CHEMISTRY.

This course is designed as a prerequisite to all other courses in chemistry and as a subject of general culture. Its aim is to prepare the student for medicine, domestic science, agriculture, engineering, pharmacy, and the advanced courses in chemistry. Lectures and quizzes, three hours; four hours laboratory work. Five hours, first semester.

### 2. INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS.

Continuation of Course 1. The last 10 weeks are devoted to qualitative analysis. Lectures and quizzes, three hours; four hours laboratory work. Five hours, second semester.

### 41. ORGANIC CHEMISTRY.

Designed as a general course in organic chemistry for medical students, those taking domestic

science or agriculture, and preliminary to advanced organic chemistry. Lectures and quizzes, 3 hours; laboratory, 4 hours a week. Prerequisite: Course 2. Five hours, first semester.

#### 42. ORGANIC CHEMISTRY AND FOOD ANALYSIS.

A continuation of course 41. The last ten weeks are devoted to food analysis, which includes class and laboratory work on the plant and animal products. Demonstrations and laboratory practice will be given in the analysis of foods and their adulterations. Class work, 3 hours; laboratory, 4 hours. Five hours, second semester.

#### 105. QUANTITATIVE ANALYSIS.

Chiefly a laboratory course in gravimetric and volumetric determinations. Such lectures as are desirable will be given. Laboratory, six or ten hours a week. Prerequisite: Course 2. Three to five hours, both semesters.

#### 106. ADVANCED QUANTITATIVE ANALYSIS.

A continuation of Course 105. This course covers the general procedure of gravimetric and volumetric analysis, fundamental operations. Accuracy and speed are insisted upon. Laboratory, ten hours a week. Five hours, second semester.

#### 131-132. ADVANCED ORGANIC PREPARATIONS.

Prerequisite: Courses 41 and 42. Laboratory, 8 hours throughout the year. Four hours credit, each semester. (Given in alternate years, 1930-1931).

#### 151. HISTORICAL CHEMISTRY

Prerequisite: two years chemistry. Two hours, first semester. (Given in alternate years, 1931-1932).

#### 160. PHYSICAL CHEMISTRY.

A general course in physical and theoretical chemistry. Lectures and quizzes, 3 hours a week. Laboratory, 2 hours. Prerequisite: Physics and two years chemistry. Four hours, second semester. (Given in alternate years, 1931-1932).

## 105. AGRICULTURAL CHEMISTRY.

A course primarily designed for the students who are majoring in Agriculture. Analytical Chemistry applied to analysis of farm products, etc., such as grains, fertilizers, soils, dairy products, water, etc. Prerequisite: Chemistry 105. Laboratory about seven or eleven hours a week. Three or five hours, first or second semesters.

Note:—A breakage fee of \$2.00 is required in all courses accompanied by laboratory work. The unused portion will be returned to the student at the close of the year. Students whose breakage exceeds the amount of their breakage deposit must make settlement before receiving credit for their work.

## CHEMISTRY ASSISTANTS

Vernon Gustafson

Fors Heckman

Irvin Rump

Ralph Keady

Arlene Anderson

## COMMERCE

## PROFESSOR BOHLING

A major in the Department of Commerce shall consist of not fewer than 24 hours nor more than 36 semester hours of work.

The following is a proposed course for students desiring the Bachelor of Arts Degree. Only as many of the courses need be taken as are necessary to satisfy the requirements of the Department.

*Accounting	6 hours.
*Economics	6 hours.
Money and Banking	3 hours.
Business Finance	3 hours.
Marketing	3 hours.
Business Law	3 or 6 hours.
Salesmanship	3 hours.
Economic History of the United States	3 hours.
Economic Geography	3 hours.

For other courses in commerce see pp. 55 to 57.

\*Required courses.

## 1-2. ELEMENTARY ECONOMICS.

The work of the first semester deals with general economic principles and lays a foundation for most

courses in the field of business. The work of the second semester deals with an application of the principles to everyday economic problems. Some of the problems discussed are: banking, money, international trade, foreign exchange, transportation, wage problems, population and immigration, taxation and industrial unrest. Three hours, both semesters.

#### 5-8. ELEMENTARY ACCOUNTING.

Fundamental principles of accounting, theory of debit and credit as applied to the keeping of double entry books. Preparation of simple financial statements and method of closing the ledger. Partnership and corporation accounting. The use of columnar books and controlling accounts. Three hours, both semesters.

#### 9-10. PRINCIPLES OF ACCOUNTING.

A course in Principles of Accounting for those desiring advanced work in this field. Advanced Partnership and Corporation accounting. Financial statements and analysis. Three hours, both semesters.

#### 15. ECONOMIC GEOGRAPHY.

The physical basis of industry and trade; resources of the world, with special emphasis on the United States, their importance, use and conservation. Three hours, first semester.

#### 18. ECONOMIC HISTORY OF THE UNITED STATES.

A general survey of the development of agriculture, manufacturing, transportation, and exchange of goods; economic crises, land, capital, labor, and the interplay of economic and political forces. Three hours, second semester.

#### 21. ADVERTISING.

Development and functions. Types of advertisements, the appeal, style, trade-marks, slogans. Illustrations, use of colors, the layout. Media, direct, outdoor and specialty advertising. Attention given to advertising in current periodicals. Three hours, first semester.

**24. SALESMANSHIP.**

A survey course in selling with special emphasis on the psychological basis of the selling process. Three hours, second semester.

**103-110. BUSINESS LAW.**

Survey of the background of law. Contracts, sales, agency, bailments, negotiable instruments, partnerships and corporations are among the subjects discussed. Emphasis on the relation of law to ordinary business transactions. Three hours, both semesters.

**121. MARKETING.**

A study of the functions of marketing and the agencies performing these functions. Elimination of middlemen by co-operative marketing and direct marketing. The retail system, problems of price setting, price maintenance, unfair competition, and relation of government to marketing. Three hours, first semester.

**125. BUSINESS ADMINISTRATION.**

Theory of plant location, equipment of the plant, equipment and workers, determination of costs, types of organization, payment, record of goods, scientific management, time and motion studies and employment problems. Three hours, first semester.

**151. MONEY AND BANKING.**

Nature and functions of money, relation to prices, monetary system of U. S., functions of banks, bank statements, bank credit, the American banking system, bank organization, foreign exchange and foreign banking systems. Three hours, first semester.

**164. BUSINESS FINANCE.**

Forms of business organization, financial side of promotion and organization of corporations, financial policies, methods of raising capital, forms of securities, channels for sale of securities. Practical financial problems. Three hours, second semester.

**161. INSURANCE.**

Elementary facts of insurance from the business man's standpoint. Relative merits of the various types of life, fire, liability, and accident insurance. Economic functions of insurance. Insurance law. Governmental supervision. Three hours, first semester.

**162. INVESTMENTS.**

Elements of sound investment, types of securities, price fluctuations. Government, state, municipal, railroad, public utilities, real estate and other forms of securities. Transfer, assignment, taxation, interest rates, and bond yields. Three hours, second semester.

**171. PUBLIC FINANCE.**

Public revenues and public expenditures. Principles of taxation. Public credit and public debts. Financial administration. Three hours, second semester.

**EDUCATION AND PSYCHOLOGY****PROFESSOR BLAIR****1-2. ELEMENTARY PSYCHOLOGY.**

An elementary course in Psychology, designed to give an outline of the whole subject of adult human psychology. Special emphasis is given to the application of the psychological principles to educational procedure. Required for the Elementary, Special, and High School certificates. Three hours, first and second semesters.

**11. ELEMENTARY METHOD OF TEACHING.**

This course provides training in the modern methods of presenting the common school subjects. The student is acquainted with the literature of the field and the results of scientific studies in methodology. Required for the Elementary certificate. Three hours, first semester.

**20. SCHOOL MANAGEMENT.**

The course gives the student a knowledge of the technique of successful school management in the light of accepted principles. Required for the Elementary certificate. Three hours, second semester.

**110. SOCIAL PSYCHOLOGY.**

This course attempts to explain group behavior in terms of psychological laws and principles. The practical problem method is used. This course does not apply toward the certificate requirements in Education. Prerequisite: Elementary Psychology. Three hours, second semester.

**115. EDUCATIONAL PSYCHOLOGY.**

A general course applying the principles of psychology to the learning process. Required of all candidates for the high school certificate. Prerequisite: Elementary Psychology. Three hours, first semester.

**120. METHODS OF TEACHING IN THE HIGH SCHOOL.**

A course designed to acquaint the prospective high school teacher with the more generally accepted methods of teaching the various high school subjects. Three hours, second semester.

**125. PRINCIPLES OF SECONDARY EDUCATION.**

A study of the theory of educational systems best adapted for a complex modern society and the proper application of educational principles in a democracy. Three hours, first semester.

**135. EDUCATIONAL MEASUREMENTS.**

An introduction to the use of scientific methods in the field of education. Provides training in the fundamentals of the statistical method which has become essential to the modern teacher. Three hours, first semester.

**141. HISTORY OF EDUCATION.**

The essential features of educational development from the classical nations to the present time are traced that the student may have a basis for an



intelligent understanding of present day theory and practice. Three hours, first semester. (Not offered 1930-1981).

159. HIGH SCHOOL ADMINISTRATION.

A study of the problems of organization and administration of the Junior and Senior high school. Required of all applicants for the high school certificate. Three hours, second semester.

161. SPECIAL METHODS IN THE TEACHING OF HISTORY

(See department of History).

162. SPECIAL METHODS IN TEACHING HOME ECONOMICS.

(See department of Home Economics).

164. SPECIAL METHODS IN TEACHING INDUSTRIAL EDUCATION.

(See department of Industrial Education).

N. B. The above courses in Special Methods may be applied toward the certificate requirement if the student has majored in the particular department from which he offers special methods course.

## ENGLISH LANGUAGE AND LITERATURE

PROFESSOR MCGAFFEY

PROFESSOR LERMAN

Note—Students majoring in English are advised to elect the course in English History.

All courses except 1, 2, and 11 may be counted to meet the requirements of twenty-four hours for a major in this department, provided ten hours is strictly junior and senior work. At least thirty hours must be selected from the group.

1. RHETORIC AND COMPOSITION.

A study of the fundamentals of composition through their practical application in oral and written themes, and in class room discussion. Required of all freshmen. Three hours, first semester.

2. RHETORIC AND COMPOSITION.

A continuation of 1. Required of all freshmen. Three hours, second semester.

## 11. ELEMENTS OF NEWSPAPER WRITING.

A course designed to present the fundamentals of newspaper organization, reporting, and editing. Three hours. (Not offered 1930-1931).

## 12. ADVANCED COMPOSITION.

A study of composition in advance of 1 and 2. Three hours, second semester.

## 21-22. ENGLISH LITERATURE.

An introductory course designed to develop a sense of values and an appreciation for the best in literature through the study of representative writers. Students who plan to study only the minimum requirements in literature are advised to elect this course. Three hours throughout the year.

## 31. AMERICAN POETS.

An intensive study of the chief American poets from Bryant to Lanier. Two hours, first semester.

## 32. AMERICAN PROSE.

A companion course to American Poets. Intensive study is made of the chief American prose writers from Franklin to Holmes. Course 31 and 32 give the student a basis for appreciation of American literature, both early and recent. Two hours, second semester.

## 101-102. SURVEY OF THE DEVELOPMENT OF ENGLISH LITERATURE.

A study of periods of literary history, rise of literary forms, etc., designed primarily for major students. Six hours. (Not offered 1930-1931).

## 111. THE ENGLISH ESSAY.

A study of the development of the English essay from the time of Bacon. Two hours. (Not offered 1930-1931).

## 122. THE SHORT STORY.

A study of the technique of the short story from representative types, with practice in the writing of that form. Two hours, second semester.

## 123. DEVELOPMENT OF THE ENGLISH NOVEL.

A study of the development of the novel, with a detailed study of the characteristic types of the nineteenth century. Three hours. (Not offered 1930-1931).

## 131. CHAUCER.

A detailed study of the Prologue and the reading of the Canterbury Tales. Supplementary reading and reports. Two hours. (Not offered 1930-1931).

## 133. ROMANTIC POETS.

A study of selections from the Romantic poets, with special attention to Wordsworth, Coleridge, Byron, Shelley, and Keats. Three hours, first semester.

## 134. BROWNING AND TENNYSON.

A study of the typical poems of Browning and Tennyson. (Not offered 1930-1931).

## 141. DEVELOPMENT OF THE DRAMA.

A study of the development of the drama in England from the earliest beginning to 1642, exclusive of Shakespeare. Three hours, first semester.

## 142. SHAKESPEARE.

An introductory study of Shakespeare's plays and of his place in the development of the drama. Three hours, second semester.

## 144. MODERN DRAMA.

A survey course in the field of recent drama. Representative plays of all nations making noteworthy contributions to modern drama are studied. Three hours, second semester.

## 150. BACKGROUNDS OF ENGLISH LITERATURE.

A study of masterpieces of Grecian literature, including epics, lyrics, dramas, and orations. Three hours. (Not offered 1930-1931).

## GEOLOGY

DOCTOR HARNLY

## 101. GEOLOGY.

An elementary course in the study of the most important minerals and rocks, of which the college has a good collection. This course is preparatory to the study of structural, dynamic, and historical geology. Two hours, first semester.

## 102. GEOLOGY.

Continuation of 101. A study of structural dynamic, physiographic, paleontologic, historic, and economic geology. Lectures, textbook, reference readings, and occasional field trips. Three hours, second semester.

## HISTORY AND POLITICAL SCIENCE

PROFESSOR BRIGHT

DOCTOR SCHWALM

## 5. THE HISTORY OF WESTERN EUROPE.

A study of European civilization from the fall of Rome to about the year 1700. Beginning with the barbarian invasions and the rise of the mediæval church, historical forces are traced through feudal times, the Renaissance, Reformation and Religious wars. (This course and the following one are recommended to the student who takes only the required work in history). Three hours, first semester.

## 6. MODERN EUROPEAN HISTORY.

A continuation of the previous course. Absolute monarchies, the French Revolution, Napoleon, the Industrial Revolution, Socialism, Nationalism at its height and the diplomatic background of the World War. Three hours, second semester.

## 11. AMERICAN COLONIAL HISTORY.

The two centuries of the English colonies prior to 1789. The chief movements and forces controlling the political, economic, imperial, and social trends

of colonial times. The first half of the eighteenth century, formerly "neglected", is given due scope. Those aspects of colonial experience which seem most significant in the development of subsequent institutions and ideals are sought after. Freshmen may elect this or any of the two following courses in American History if they decide to take any history during their first year. Three hours, first semester.

18. UNITED STATES HISTORY, 1789-1865.

The richest period of American History. Constitutional development, expansion and conflict, sectionalism, social reforms, political parties, and gigantic personalities are traced through the period. The heritage of political ideals and the development of the American ideal of democracy, along with economic and social factors, are abundant for analysis. Three hours, first semester.

19. RECENT UNITED STATES HISTORY.

Since the Civil War. Reconstruction, major problems, and the nation in world affairs fill the survey of the two generations. Some new tendencies in American History for this period merit attention. The tremendously rapid growth of the nation is watched and inspected. Three hours, second semester.

102-106. ENGLISH HISTORY

A study of the English people from the earliest times to the present, noting especially England's institutions as antecedent of our own, and England's place in modern history. An interpretation of Britain's continuous and ever-changing life. England itself, overseas expansion, the transoceanic communities, the gift of political institutions, and cultural, social and economic developments are of great importance. May be elected by semesters. Six hours, both semesters.

111. GREEK HISTORY.

A course covering the events in Greek History to the time when the story is woven into the history of

Rome. The evolution of Greek civilization is related to the civilization of today. Cultural achievement alone justifies a study of Hellenic times. Glorious Athens, militaristic Sparta, the successive masteries by Thebes, Macedon, and Rome. Given every other year. Three hours, first semester.

#### 112. ROMAN HISTORY.

To the Fall of the Empire. A course in the political, military, social, and constitutional development of the Republic and the Later Empire. The golden Ciceronian or Augustan period is favored with fulness. Imperialistic problems, democratic institutions, effective government, and everyday social life are threaded into a brief, consecutive story. Given every other year. Three hours, second semester.

#### 113. CONTEMPORARY EUROPEAN HISTORY.

A study of the diplomatic background of the World War, and the peace settlement after the war. Twentieth century European affairs are scrutinized chiefly. This course presupposes Course 6, listed above, or its equivalent. This course is meant to be a popular and intensive probing of current international problems and developments. Three hours, first semester.

#### 120. REPRESENTATIVE AMERICANS.

Some representative leaders of the seven generations of American History. Several hundred personalities in their chief connections and leaderships are emphasized. The relative importance, contribution, and problems of the respective groups are reviewed. Prerequisite, six hours of history in college. Three hours, second semester.

#### 131-132. CHURCH HISTORY.

Three hours, both semesters.

#### 134. THE RENAISSANCE AND REFORMATION.

A more detailed study of these movements than is given in the general European history course.

es. Some attention will be paid to the developments in art and literature as well as politics and philosophy of the Renaissance. The latter half of the course will be a detailed study of the religious reformation led by Luther, Zwingli, Calvin Knox, and others. Three hours, second semester.

#### 150. INTERNATIONAL RELATIONS.

A course particularly in world politics and imperialism. The imperialism of the last five decades, contemporary European diplomacy, and means of international cooperation are culminated in the present. An effort at an evaluation of the past achievements and present problems of world politics and world relationships. Prerequisite, 6 hours of college history. Three hours, second semester.

#### 161. THE TEACHING OF HISTORY.

A course intended for prospective teachers of history, in junior and senior high schools. Methods, technique, organization of material, collateral reading, note books, maps and written work are viewed for their values. Prerequisite, 9 hours of history. Two hours, first semester.

#### 170. MEDIEVAL HISTORY

A study of the Political and Social history of Europe from the fall of Rome to about 1500. The Dark Ages. Feudal Europe and the Rise of Nationalism and the Renaissance. Second semester, three hours.

#### 175. ADVANCED AMERICAN HISTORY (1765-1801).

(Prerequisite—a general college course in United States History covering this period, or consent of the Instructor) This course will cover the period indicated emphasizing the causes of the conflict between England and United States, stressing constitutional developments. The Articles of Confederation are then studied, their making, their strength and weakness, and the colonial desire for stronger government. Considerable time will be spent on the Constitution-

a) Convention of 1787—including a study of the Constitution itself; the Federalist period in which the new government is put into operation by the friends of the constitution. Collateral Reading and papers. Three hours, one semester.

### POLITICAL SCIENCE COURSES

#### 1. UNITED STATES GOVERNMENT.

A course in college civics. A thorough study of American government. It takes up our national governmental organization and that of the states as well, noting the relation of the federal and state governments. A critical study of the present with proposed remedies for defects. Political philosophy and party practice are joined for comparison. Not open to freshmen. Three hours, first semester.

#### 100. EUROPEAN GOVERNMENTS.

Naturally a comparative study of the organizations, political methods, governmental machinery and processes of administration of the chief European countries; and wherein the essential likenesses and differences to the government of the United States are concerned. Some attention given to the Succession States likewise. Three hours, second semester.

#### 105. MUNICIPAL GOVERNMENT.

The urbanization of our country is an outstanding recent development. This course seeks to note the efforts to keep pace with the growing and changing city problems. New experiments, failure and success, and present tendencies are checked up and weighed. Three hours, first semester.

### HOME ECONOMICS

PROFESSOR THUROW

#### 5. CLOTHING I.

Class work, one hour, laboratory, four hours. The course begins with the study of the clothing needs of the college girl and applies the fundamental processes of clothing construction to simple



garments. Drafting of simple patterns is studied. Three hours, first semester.

#### 6. CLOTHING II.

Continuation of Clothing I. Remodeling of garments, children's clothing, clothing budgets, and the planning and construction of garments are problems considered. Prerequisite: Clothing I. Three hours, second semester.

#### 11. HOUSE PLANNING AND FURNISHING.

Class work, two hours; laboratory, four hours. The course consists of a study of Household Architecture, period and modern furniture, and planning of houses. The second half of the course is devoted to the study of interior decoration. Four hours, first semester.

#### 15. FOODS I.

Class work, two hours; laboratory four hours. The course includes a brief study of food legislation and of recent scientific investigation of foods; also an economic study of food stuffs; and the nutritional value of common foods. Laboratory work consists of experimental work and practical cookery. Prerequisite: Inorganic Chemistry and Physiology. Four hours, first semester.

#### 16. FOODS II.

Class work, one hour, laboratory four hours. The course begins with the study of the food needs of the family group. Meal planning and table service are carried throughout the entire course. Prerequisite: Foods I. Three hours, second semester.

#### 20. COSTUME DESIGN.

Class work, one hour; laboratory, four hours. The aim of this course is to develop good taste in dress by the conscious application of the principles of art. Individual requirements in color and line are considered. Costumes for various occasions are designed. Three hours, second semester.

## 102. HOUSEHOLD MANAGEMENT.

Class work, two hours. This course includes a study of the principles of the scientific management of the home, budget making, social, civil and economic duties and responsibilities of the home-maker. Prerequisites: Foods and Clothing I. Two hours, second semester.

## 116. CHILD WELFARE.

Class work, three hours. A course dealing with the various aspects of child care, such as physical and mental development, child hygiene, child labor, and recreation. Prerequisites: Psychology and Physiology. Three hours, second semester.

## 110. TEXTILES.

Class work, one hour; laboratory, two hours. A study of the historical development of the textile industry, the present day manufacture of the various textile fabrics, and the study and identifications of fibers in the laboratory. Prerequisite: Chemistry and Clothing I. Two hours, second semester.

## 120. HOME NURSING.

Class work, two hours. This course is intended to prepare a woman to care for minor illnesses in the home. The hygiene of the sick room, the nature and treatment of some of the common diseases, and first aid measures are characteristic problems of the course. Prerequisite: Foods I and Physiology. Two hours, second semester.

## 125. CLOTHING III.

Laboratory four hours. This course gives practical experience in the use of commercial patterns and the fitting of garments. Special problems in selection are considered. Prerequisite Clothing I and II. Two hours, first semester.

## 141. NUTRITION AND DIETETICS.

Class work, three hours; laboratory, four hours. A study of the body's food needs under normal and abnormal conditions with particular emphasis on

normal nutrition. Attempt is made to make the study immediately practicable for those taking the course. Prerequisite: Foods I and II, Physiology and Chemistry. Five hours, first semester.

#### 162. SPECIAL METHODS IN HOME ECONOMICS.

A survey of Home Economics in the various types of schools as an application for general methods of instruction to this special field. The course includes planning of courses of study and a study of equipment to meet the need of the various types of schools. Prerequisites: Foods I. and II., Clothing I.; five more hours in the Dept.; and ten hours in Psychology and Education. Three hours, second semester.

## INDUSTRIAL EDUCATION

PROFESSOR BOONE

#### MAJOR REQUIREMENTS.

Those who expect to major in the Department of Industrial Education should complete the following courses and hours credit:

Woodwork	6 hours
Advanced cabinet making	8 hours
Mechanical Drawing	2 hours
Machine or Arch. Drawing	2 hours
Woodturning	4 hours
Teaching Manual Arts	2 hours

#### 1-2. MECHANICAL DRAWING I.

This is an introductory course in Mechanical Drawing which emphasizes the correct use of the instruments, lettering and the application of geometrical problems to working drawings. Several plates of practical projects are required, and the making of tracings and blue-print is taught. This course is required in engineering courses, and should be taken previous to any of the following courses in Industrial Education. Two hours, each semester.

#### 4. MECHANICAL DRAWING II.

A continuation of Course 1. 2. Includes sectioning, revolving views, isometrics, obliques and the

principles of development. Prerequisite Course 1, 2. Two hours, second semester.

**9-10. MACHINE DRAWING I.**

Requirement for Engineering Course. Includes assembly, detail and working drawings of machine parts, bolts, nuts, screws, springs, castings and pipe fittings. Prerequisite Course 1, 2 or its equivalent. Two hours, each semester.

**12. ADVANCED MACHINE DRAWING.**

An advanced course in engineering drawings as a continuation of Course 9, 10. Prerequisite Course 9, 10. Two hours credit, second semester.

**21. ARCHITECTURAL DRAWING I.**

Introduction to conventional Architectural methods. Course includes plans, elevations and details of buildings. Prerequisite, Course 1, 2. Two hours, first semester.

**22. ADVANCED ARCHITECTURAL DRAWING.**

A continuation of Architectural Drawing I. Student is required to make drawings of plans, elevations and details of an original dwelling. Also to make blue prints and write up the specifications for building the dwelling. Some attention is given also to the premises and grounds including outbuildings, water systems, sewer systems and lighting. Prerequisite, Courses 1, 2 and 21. Two hours, second semester.

**51-52. WOODWORK I.**

An introductory course in Manual Training. Lectures and class notes one period per week, remainder shop practice. Emphasis is placed on the proper use and care of tools as well as design, construction and finishing wood. This course will fill the requirements for Woodwork in the pre-engineering courses. Two hours, each semester.

**53-54. WOODWORK II.**

An advanced course in design, joinery and finishing. Lectures, shop notes and themes. Fine tech-

zique in woodwork is emphasized. Prerequisites Course 1, 2, 51, and 52, or their equivalent. Three hours, each semester.

#### 185-109. CABINET MAKING AND FURNITURE DESIGN.

A special course in advanced cabinet-making for major students. Two hours of advanced woodwork and wood-turning are combined with lectures on theory of design, joinery and finishing. Each student is expected to prepare a paper on some related subject and to construct a woodwork masterpiece. Four hours, each semester.

#### 25-26. HOME MECHANICS.

A course for women, designed to teach the up-keep and repair of the household. Includes instruction in water, gas and electric meter-reading, blue print reading, simple knot tying, usage of such common tools as the hammer, screw-driver, saw and plane. Also toy making and repairing, furniture repair and refinishing, recaning chairs, the use of paint, varnish and lacquers, as well as modern methods of decorating by means of Decalcomania transfers. Enough electricity is taught to enable the student to renew burnt out fuses, repair irons and toasters, assemble fixture cords, fit attachment plugs and wire sockets. Some time is given during the second semester to house planning and interior decorating. No prerequisites. One hour, each semester.

#### 61-62. WOODTURNING I.

An introductory course of variety turning which includes the making of such projects as chisel handles, gavels, candlesticks, lamps, napkin rings and dresser sets. Prerequisite, Course 51, 52 or its equivalent. Hours are fitted into individual courses by special arrangement. Two hours, each semester.

#### 109-110. ADVANCED WOODTURNING.

A continuation of Woodturning I for major students. Such articles as bowls, pedestals, bridge and floor lamps as well as parts for woodwork projects are made. Prerequisite, Course 61, 62. Two hours, each semester.

## 131. VOCATIONAL GUIDANCE AND PERSONNEL PROBLEMS.

A study of the best known methods of classifying individuals with reference to vocational aptitudes. A survey is made of various trades and occupations and attention is given to the most scientific methods of locating young people and helping them to progress in educational and vocational fields. Prerequisite Sociology. Two hours, first semester.

## 164. TEACHING METHODS FOR THE MANUAL ARTS.

A course designed to provide the prospective teacher with training in correct methods of teaching Manual and Industrial Arts. Special emphasis is placed on practical problems that the beginning teacher meets. All students who expect a teaching recommendation from this Department are expected to take this course. Students who are majoring in Manual Arts may receive credit for this course in their educational requirement. Two or three hours, second semester.

## LATIN

PROFESSOR HESS

## 1-2. ELEMENTARY LATIN.

Written and oral work. Accuracy in pronunciation is stressed. Constant drill of forms, vocabulary and syntax. Translation of connected passages of discourse and historical extracts. Three hours, both semesters.

## 11-12. CAESAR, GALLIC WAR.

Four books or equivalent, with Latin composition. Drill on constructions, vocabulary and historical setting. Translation to idiomatic English. Three hours, both semesters.

## 21-22. CICERO, ORATIONS.

The four orations against Catiline, Manilian Law and Archia. Latin composition and grammatical drill. A study of Cicero's style and political background. Three hours, both semesters.

## 31-32. VIRGIL, THE AENEID.

First six books. Careful study of scansion and Roman mythology. Two hours, both semesters.

## 105. CICERO, DE SENECTUTE.

A critical analysis of this delightful essay, with a thorough review of the grammar. Two hours, first semester.

## 110. LIVY, BOOK XXI.

History of the Punic wars. Supplemented by a careful study of Mackail, Latin Literature. Three hours, second semester.

## 115. HORACE, ODES.

Careful practice in metrical reading. Attention is given to geographical, historical and mythological allusions of this "people's poet". Three hours, first semester.

## 120. PLAUTUS, CAPTIVI.

History of the rise and development of the Roman drama. Peculiarities in form or syntax of the colloquial Latin of the period are observed. Three hours, second semester.

## 125. OVID, METAMORPHOSES.

The masterpiece of a born story teller. A reading course with collateral work in mythology. Three hours, first semester.

## 130. TACITUS, AGRICOLA AND GERMANIA.

Attention is given to the author's style, and to the political and social conditions of Britian and of the German peoples. Three hours, second semester.

## 135. CICERO'S LETTERS.

These letters form a basis for the study of the history and life at the end of the Roman republic. Three hours, first semester.

## 140. HORACE, SATIRES AND EPISTLES.

Lectures on the origin and development of Roman satire. Three hours, second semester.

## 145. ADVANCED LATIN COMPOSITION.

Study of grammatical principles as applied to translation of connected discourse to Latin. One hour, first semester.

## 60. ROMAN PRIVATE LIFE.

Johnston's *Private Life of the Romans*, supplemented by lectures and assigned readings in English of the more important authors. No Latin required, does not satisfy language requirement. One hour, second semester.

## LIBRARY SCIENCE

PROFESSOR HECKETHORN

## 1. LIBRARY SCIENCE.

Introductory course in the use of books and libraries, designed to aid the pupil in his work in the library. Two hours, second semester.

## 2. LIBRARY SCIENCE.

Organization and administration of libraries; designed for those especially interested in library work, and for those who as teachers will have charge of the school library. Two hours, first semester.

## MATHEMATICS

PROFESSOR ROWMAN

## 5. TRIGONOMETRY.

An introduction to the methods of measuring distances by the use of angles. Functions of right triangles, and oblique triangles. Practical problems. Open only to students who have had algebra and geometry in high school. Three hours, first semester.

## 6. COLLEGE ALGEBRA.

Methods of solving equations, theory of equations, permutations and combinations, progressions and series, interest formulas, binomial theorem and determinants, with an introduction to the theory of differentiation. Three hours, second semester. Prerequisite, trigonometry.

## 27. ANALYTIC GEOMETRY I.

Coordinate systems, functions and graphs, loci, projections, and conics. Two hours, first semester. Prerequisite, college algebra.



**28. ANALYTIC GEOMETRY II.**

A continuation of Analytic Geometry I. Two hours, second semester.

**101. CALCULUS I.**

Differentiation of elementary functions, maxima and minima, and integration of standard forms. Open only to students who have taken or are taking analytic geometry. Three hours, first semester.

**102. CALCULUS II.**

Problems involving areas, lengths, surfaces and volumes treated by the processes of single integration. A study of successive and partial integration, and integration by parts. Three hours, second semester.

**104. ADVANCED CALCULUS.**

A study of advanced topics in integration and certain types of differential equations. Two hours, second semester. Prerequisite, Calculus II. (Not offered in 1930-1931).

**125. THEORETICAL MECHANICS.**

Conditions of equilibrium, non-concurrent forces, center of gravity, moments of inertia, work energy and power. Four hours, first semester. Prerequisite, Calculus II. (Not offered 1930-1931).

## MODERN LANGUAGES

### GENERAL INFORMATION.

Students who enter without a foreign language must take three years of foreign language before receiving the A. B. degree. This may consist of three years of one language or two of one language and one of another.

### FRENCH

#### MAJOR.

A major shall consist of a minimum of twenty hours exclusive of the first year (six hours).

**1-2. ELEMENTARY FRENCH.**

Grammar, pronunciation, reading, composition, conversation. No credit towards graduation given for 1 unless 2 is completed. Three hours, each semester.

**3-4. SECOND YEAR FRENCH.**

Reading of such authors as Daudet, Maupassant, About, France, Loti, Rostand, Augier, Moliere. Grammar review, composition and conversation. Three hours, each semester.

**105-106. FRENCH COMPOSITION.**

Thorough review of grammar, phonetics, advanced composition and conversation. Prerequisite: 4. Two hours, each semester.

**109-110. SEVENTEENTH CENTURY FRENCH LITERATURE.**

With a rapid survey of the preceding centuries as an introduction to Classicism. Prerequisite: 4. Two hours, each semester.

**121-122. NINETEENTH CENTURY FRENCH LITERATURE.**

With a rapid survey of the eighteenth century as an introduction to Romanticism. Contemporary literature will be included with Realism. Prerequisite: 4. Three hours, each semester.

**105. THE TEACHING OF FRENCH IN HIGH SCHOOLS.**

Prerequisite: 4. Best taken in final year of major. Two hours, first semester.

**GERMAN****1-2. ELEMENTARY GERMAN.**

Grammar, pronunciation, reading, composition, conversation. No credit towards graduation is given for 1 unless 2 is completed. Three hours, each semester.

**3-4. SECOND YEAR GERMAN.**

Reading of such authors as Arnold, Zschokke, Heyse, Storm, Baumbach, Wildenbruch. Grammar

review, composition, and conversation. Three hours, each semester.

Note: A third year's German may be given if there is sufficient demand.

## PHILOSOPHY

PROFESSOR HECKMAN

### 1. PHILOSOPHY OF LIVING.

A course of lectures on student problems to aid in adjustment to college life, on principles of vocational guidance, and on the higher conceptions of the meaning and value of life for virile and Christian character. Required of all freshmen. One hour, first semester.

### 105. INTRODUCTION TO PHILOSOPHY.

A survey of the field of Philosophy as a persistent endeavor to discover the truth in regard to life and reality. The main problems and chief theories on the subject are examined and evaluated. Numerous standard texts are consulted. Three hours, first semester.

### 110. HISTORY OF PHILOSOPHY.

The history and development of philosophic thinking is the content of this course. A study is made of the life and system of various leading philosophers and tendencies in the philosophical field are indicated and their merit discussed. Three hours, second semester.

### 120. THEISM.

A philosophical study of the paths of human knowledge which lead to a realization of God. The world is full of evidences that a personal spiritual God lives in his universe and this course proposes to examine these witnesses to his divine character and relations with mankind. Three hours, second semester.

### 131. ETHICS.

A course in moral philosophy which examines the nature of human conduct and the moral reasons

underlying it. Conscience and duty are studied in relation to practical personal and social problems, with the constant objective to give worthy direction to daily life. Three hours, first semester.

#### 180. THE PHILOSOPHY OF RELIGION.

A study of the facts of religion, inclusive of its nature, function, and varieties of expression. Special attention is given to the doctrines of conversion, prayer, and immortality. Three hours, second semester.

## PHYSICAL EDUCATION AND TRAINING

### 1-2. PHYSICAL TRAINING.

A course in systematic callisthenic and gymnastic work and a study of group games and mass athletics useful to students who expect to be active in community work. Two hours are required of all men for graduation. Two hours, throughout the year.

### 3. COACHING.

A course to aid students who are going out from the college to teach in high schools. The course takes up the coaching of all the major sports, football, basketball and track. Three hours, first semester.

### 5-6. PHYSICAL EDUCATION FOR WOMEN.

Required of all first year students. Swedish gymnastics, rhythma, and floor work. Two hours throughout the year.

## PHYSICS

PROFESSOR BOWMAN

### 2. PRACTICAL PHYSICS.

A description of the most interesting physical laws as seen in the common things of our experience. Many important principles will be demonstrated in class. No mathematics is required and there will be no laboratory work. This course is offered for those who have not had high school physics and wish to

get the fundamental facts of modern physics for general culture. Two hours, second semester. (Not offered 1930-1931).

#### 5. GENERAL PHYSICS.

A study of the theory of sound and light, magnetism and electricity, motors, dynamos, and electric machinery, radio broadcasting and receiving, and numerous practical problems. Open to students who have taken or are taking trigonometry. Three recitations and two laboratory periods per week. Five hours.

#### 6. GENERAL PHYSICS.

A thorough study of force, motion, energy, molecular motion and the measurement of heat. Prerequisite, trigonometry. Five hours.

#### 101. ADVANCED PHYSICS.

Advanced laboratory practice in mechanics, heat and light. Two laboratory periods per week. Prerequisite, general physics. Two hours, first semester.

#### 102. ADVANCED ELECTRICITY.

Advanced theory of electricity, direct current and alternative current instruments and machinery, and practice in making accurate electrical measurements. Open to students who have had general physics and calculus. Four hours, second semester.

#### 103. MECHANICS.

Forces, centers of gravity, rectilinear motion, curvilinear motion, work, energy, power, moment of inertia and momentum. Four hours, first semester. Prerequisite, Calculus II. (Not offered 1930-1931).

#### 104. RADIO.

Theory and operation of radio circuits and radio instruments, and television apparatus. One recitation and one laboratory period per week. Prerequisites, general physics. (Not offered 1930-1931).

## 111. ATOMIC THEORY.

Theory of electrons, atoms, isotopes, ionization, X-rays, crystal structures, radioactivity, and the formation of spectra. Two hours, first semester. Prerequisite, general physics.

## 112. ASTROPHYSICS.

The study of the size, composition and velocity of the sun, stars, nebulae, comets and double stars as determined by the spectrograph and interferometer. Prerequisite, descriptive astronomy and physics. Two hours, second semester.

## RELIGIOUS EDUCATION

The purpose of the department is two-fold. First, it seeks to recruit and train professional workers for the multitude of occupations which the enterprise includes. Secondly, it seeks to recruit and train others to be avocationally interested in the movement. Special obligations rest upon every minister or other religious worker, every public school teacher and social worker to become closely affiliated with the enterprise. In fact, these problems are of vital concern to every American citizen, and particularly to every college student, whatever vocational interests he may have.

Credits: Courses in Educational Psychology, Methods, and Principles of Education from the Department of Education may be applied on a major in Religious Education.

## 1. THE EXPANDING MOVEMENT OF RELIGIOUS EDUCATION.

A study of recent movements in moral and religious education, together with the historical background and the causes of revival of interest. Survey of the chief agencies involved: Public schools, parochial schools, church schools (including Sunday Schools, week day schools, and vacation schools), the home, Y. M. C. A., Y. W. C. A., higher institutions, overhead denominational and interdenominational boards. Three hours, first semester.

## 2. THE RELIGION OF CHILDHOOD AND YOUTH.

Genetic Psychology and its implications in the field of religious education. Heredity and original

nature and the problem of remaking original nature, through Christian culture. Cross section studies of the religious experience of children and adolescents. Three hours, second semester.

### 3. PRINCIPLES OF RELIGIOUS EDUCATION.

A study of contemporary theories, problems, and practices in religious education. Practical implications of the teaching function of the church. The consideration of salient principles of educational psychology as applied to religious development. Three hours, first semester.

### 104. THE ADMINISTRATION OF RELIGIOUS EDUCATION.

National, community, and local church programs. Denominational and interdenominational organizations. The organizing, conducting, and supervising of various types of schools. Selected administrative problems, such as: Leadership training; providing activities for the enlistment of young people in church work; the use of surveys and measurements in religious education; the correlation of agencies; the construction of a unified church school program. Three hours, second semester.

### 105. THE CURRICULUM OF RELIGIOUS EDUCATION.

Survey of the development and principles of religious lesson materials. The technique for the selection of instructional, expressional, and worship materials. The use of art, music, pageantry, and drama as religious subject matter. Three hours, first semester.

### 106. METHODS OF RELIGIOUS EDUCATION.

The types of teaching as applied to religious work, with special emphasis upon the development of religious motivation, the appreciation lesson, the place of the story in teaching, and the project method. The determination of classroom technique and the use of devices in teaching religion. Three hours, second semester.

McPHERSON COLLEGE  
SOCIAL SCIENCE  
DOCTOR YODER

104. INTRODUCTION TO SOCIOLOGY.

A study of the nature and scope of Sociology, including social origins, social activities, social control, social ideals, social progress, and the attainment of these through social organizations. Three hours, second semester.

6. RURAL SOCIOLOGY.

The social, economic, educational, and religious life of rural communities is studied. Tendencies and deficiencies are noted and methods of improvement are indicated according to the best ideals of social life. The purpose of the course is to give practical information that will aid in the right interpretation of the "rural problem." Three hours, second semester.

121. THE FAMILY.

In addition to a historical survey the family is studied as a social, educational, moral, and religious institution, the social unit and foundation of a democracy, given emphasis to present tendencies and deteriorating influences. Three hours, first semester.

131. PROBLEMS OF SOCIAL WELL-BEING.

This is a study purporting to give the student an intelligent understanding of social well-being viewed in its economic, physical and mental aspects. It is a scientific study of social problems from the constructive approach of social well-being rather than dealing with end-products of social ill-being. Text used, "Problems of Social Well-being", by James H. S. Bossard. Three hours, first semester.

151. ECONOMICS.

A general course. The principles of economic life are studied with constant reference to the economic aspects of legal and political problems and to the development of the United States. Factors in production, consumption, distribution, exchange,



value, labor, capital, monopolies, taxation, etc., are considered. Three hours, first semester.

Note: For other courses in economics see the department of Commerce.

## SPEECH

PROFESSOR LEHMAN

PROFESSOR HESS

### 6. PUBLIC SPEAKING.

A course to train the student in impromptu, extempore, and formal delivery. A study of the different types of public address. Students will prepare and deliver brief addresses. Three hours, second semester.

### 11. ARGUMENTATION AND DEBATE.

A study of the principles of argumentation with practice in application by written briefs and oral argumentation. Important public questions studied and debated. Three hours, first semester.

### 20. ADVANCED DEBATE.

This class is intended for students who have won in the preliminary debate contests. Teams from this class represent the college in the annual intercollegiate debates. Two hours, second semester.

### 25. ORATORY.

In this course especial attention is given to the study of orations, as to composition, structure, style, logic, and thought. An original oration is required to be given by each student. This oration may be used in the intercollegiate contests. Two hours, first semester.

### 31-32. PRINCIPLES OF SPEECH AND INTERPRETATION.

A course in general speech education and fundamentals of interpretation. Three hours, both semesters.

### 40. STORY TELLING.

Sources of story material, the selection of different types of stories suitable for the different ages

of childhood. Principles of effective story telling, with actual practice. Each student is required to appear in a program of stories. Two hours, second semester. (Not offered in 1980-1981).

#### 61-62. DRAMATIC ART.

The aim of this course is to give the student elementary principles of standards of acting, character interpretation and producing. One recitation and two laboratory periods each week. Not open to freshmen. Prerequisite, 31 and 32. Two hours, both semesters. (Not offered in 1980-1981).

#### 187. EXPRESSION METHOD.

A course for majors. A study of teaching methods. One hour recitation and two hours observation and practice teaching. Two hours, first semester. (Not offered in 1980-1981).

#### 188-189. ADVANCED EXPRESSION.

An interpretative study of literary masterpieces, and a practical application of the principles of interpretation to platform reading, dramatic art, etc. Prerequisite, 31 and 32. Three hours, one semester.

## COMMERCE

PROFESSOR BOHLING  
MRS. BOHLING

For the student desiring the degree, Bachelor of Science in Commerce, the following course is proposed. This course is designed to prepare the graduate to teach commercial subjects in the high school as well as to fit him for the field of general business.

### FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Penmanship .....	3 hr.	Penmanship .....	3 hr.
Typewriting .....	3 hr.	Typewriting .....	3 hr.
*Elementary Economics	3 hr.	*Elementary Economics	3 hr.
*Elementary Account-		*Elementary Account-	
ing .....	3 hr.	ing .....	3 hr.
**Electives .....	3 hr.	**Electives .....	3 hr.

## SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Shorthand . . . . .	4 hr.	Shorthand . . . . .	4 hr.
Economic History of the United States . . .	3 hr.	Economic Geography . . .	3 hr.
Advertising . . . . .	3 hr.	Salesmanship . . . . .	3 hr.
Commercial Arithmetic	3 hr.	Office Management . . .	3 hr.
**Electives . . . . .	3 hr.	**Electives . . . . .	3 hr.

## JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Business Law . . . . .	3 hr.	Business Law . . . . .	3 hr.
Marketing . . . . .	3 hr.	Money and Banking . . .	3 hr.
**Electives . . . . .	9 hr.	**Electives . . . . .	9 hr.

## SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Business Finance . . . .	3 hr.	Investments . . . . .	3 hr.
Insurance . . . . .	3 hr.	Business Administration .	3 hr.
**Electives . . . . .	9 hr.	**Electives . . . . .	9 hr.

\*—Required Course.

\*\*—In selecting the elective courses the student will want to choose subjects which will fill group requirements.

A proposed course for the student desiring a general business training in two years.

Should the student decide at the end of two years that he wants the degree, Bachelor of Science in Commerce, he can finish the required work in two additional years without loss of credit.

## FIRST YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Rhetoric and Composition . . . . .	3 hr.	Rhetoric and Composition . . . . .	3 hr.
Typewriting . . . . .	3 hr.	Typewriting . . . . .	3 hr.
Penmanship . . . . .	2 hr.	Penmanship . . . . .	2 hr.
Elementary Economics . . . . .	3 hr.	Elementary Economics . . . . .	3 hr.
Elementary Accounting . . . . .	3 hr.	Elementary Accounting . . . . .	3 hr.
Economic Geography . . . . .	3 hr.	Salesmanship . . . . .	3 hr.

## SECOND YEAR

<i>First Semester</i>		<i>Second Semester</i>	
Shorthand . . . . .	4 hr.	Shorthand . . . . .	4 hr.
Business Law . . . . .	3 hr.	Business Law . . . . .	3 hr.
Commercial Arithmetic . . . . .	3 hr.	Office Management . . . . .	3 hr.
Advertising . . . . .	3 hr.	Economic History of the United States . . . . .	3 hr.
Elective . . . . .	3 hr.	Electives . . . . .	3 hr.

\*\*—In selecting the elective courses the student will want to choose subjects which will fill group requirements.

**92. TYPEWRITING.**

The course in Typewriting includes lectures on the parts and care of the machine, and instruction in speed and accuracy in typing. Three hours, both semesters.

**93. SHORTHAND.**

Phonetics, ease in taking notes in the business office or on any lecture, and accuracy in transcription are the essentials stressed in this course. Four hours, both semesters.

**94. PENMANSHIP.**

This course includes instruction in legible business writing and arrangement of material. Two hours, both semesters.

**95. COMMERCIAL ARITHMETIC.**

Reasoning and working problems which come up in the business world are stressed. Short cuts in figuring and checking. Three hours, both semesters.

**96. OFFICE MANAGEMENT.**

Office problems which come up in any office, such as filing and other similar work. Three hours.

NOTE—For a description of other courses in the Department of Commerce see pp. 50 to 52.

## DEPARTMENT OF FINE ART

JESSIE BROWN, B. M., Dean of Music  
Piano

ANNA C. TATE, A. B.  
Voice

FERN LINGENFELTER, B. M.  
Public School Music and Piano

MARGARET SHELLY, A. B., B. M.  
Violin, Theory, Orchestra

DELLA LEHMAN, A. M.  
Expression, Public Speaking

CLARA O. COLLINS, Artist Certificate  
Art

The school of Fine Arts consists of two departments, Music and Art, which offer the following major courses:

I. MUSIC.

- (a) Piano.
- (b) Voice.
- (c) Violin.
- (d) Public school music.

II. ART.—NORMAL ART COURSE.

These courses include systematic and progressive instruction in the theory, history and practice of the arts to which they are severally related.

The college of liberal arts affords excellent opportunities to students, so desiring, to pursue studies related to fine arts other than those included in the courses of the school.

ADMISSION

Entrance is effected in two ways: First, as a regular student. For any course leading to a degree the student must satisfy the entrance requirements

of the College of Liberal Arts and Science, (See page 31), and give satisfactory evidence that the preparatory course in piano, voice or violin has been completed. Second, as a special student. In this case the student may elect any course which his previous training has qualified him to pursue.

#### COURSES OF INSTRUCTION

The following courses are offered:

(1) A four year course leading to the degree of Bachelor of Music with Piano, Violin, or Voice as a major.

(2) A three year course leading to a Diploma with Piano, Violin, or Voice as a major.

(3) A two year course leading to a Teacher's certificate with Piano, Violin, or Voice as a major.

(4) A four year's (one hundred and twenty hours) supervisor's course in Public School Music leading to a degree and to a state certificate.

(5) Artist course: A four year's course with Piano, Violin or Voice as a major leading to an artist certificate.

#### CREDITS

In all class work one hour of recitation and two hours of preparation for a period of one semester is required for one hour credit.

In applied music six hours practice each week for a period of one semester is required for one hour credit.

A maximum of 30 hours credit from the school of Fine Arts may be elected towards an A. B. degree.

#### GENERAL REQUIREMENTS

Candidates for certificates or degrees in music are required to pass an examination in their major subject before the examination board. They must also appear in private, public and graduation recitals.

Each student shall confer with the advisory

committee chosen from the music faculty concerning courses to be taken. Students are not allowed to arrange for public engagements without the permission of the faculty.

All students are required to study with the head of the department in which they major during the year of graduation and are required to take two lessons per week in their major subject.

All preparatory courses must be completed before the student is eligible to enter advanced courses. Preparatory courses require about four years work for completion, depending upon branch of study selected and the natural ability of the student.

## OUTLINE OF COURSES LEADING TO DEGREE, B. M.

### PIANO

The Roman numerals indicate the semester and the Arabic numerals the credits allowed in each semester.

<i>Freshman.</i>			<i>Sophomore.</i>		
	I.	II.		I.	II.
Piano . . . . .	2	2	Piano . . . . .	2	2
Harmony . . . . .	2	2	Harmony . . . . .	2	2
Sight Singing . . . . .	1	1	Normal Training . . . . .		2
Ear Training . . . . .	2	2	Appreciation . . . . .		1
English . . . . .	3	3	Conducting . . . . .		2
History of Music . . . . .	2	2	Psychology . . . . .	2	
Chorus . . . . .	$\frac{1}{2}$	$\frac{1}{2}$	Music Form . . . . .	2	
Electives . . . . .	3	2	Methods . . . . .	3	
			Management . . . . .		3
			Chorus . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
			Electives . . . . .	2	3
<i>Junior Year.</i>			<i>Senior Year</i>		
	I.	II.		I.	II.
Piano . . . . .	2	2	Piano . . . . .	4	4
Counterpoint . . . . .	2	2	Canon . . . . .	2	
Harmonic Analysis . . . . .	2		Fugue . . . . .		2
Instrumentation . . . . .		2	Expression . . . . .	3	3
Public Speaking . . . . .	3	3	Chorus . . . . .	$\frac{1}{2}$	$\frac{1}{2}$
Chorus . . . . .	$\frac{1}{2}$	$\frac{1}{2}$	Electives . . . . .	6	5
Electivities . . . . .	6	6			

## VOICE

Freshman.		I.	II.	Sophomora.		I.	II.
Voice .....	2		2	Voice ..	2		2
Piano .....	1		1	Harmony ..	2		2
Harmony ..	2		2	Appreciation ..	2		2
Sight Singing ..	1		1	Conducting ..	2		2
English .....	2		2	French or German ..	2		2
Ear Training ..	2		2	Psychology .....	2		2
History of Music ..	1		1	Chorus .....	½		½
Chorus .....	½		½	Piano .....	1		1
Electives .....	2		2	English .....	2		2
				Electives ..	2		2
Junior.		I.	II.	Senior.		I.	II.
Voice .....	2		2	Voice .....	2		2
Counterpoint ..	2		2	French or German ..	2		2
Harmonic Analysis ..	2		2	Expression .....	2		2
Music Form .....	2		2	Chorus .....	½		½
French or German ..	2		2	Recital .....	4		4
Public Speaking ..	2		2	Electives ..	2		2
Methods .....	2		2				
Management .....	2		2				
Chorus .....	½		½				

## VIOLIN

Freshman.		I.	II.	Sophomora.		I.	II.
Viola, Cello ..	2		2	Viola, Cello ..	2		2
Harmony I .....	2		2	Piano .....	2		2
Sight Singing I ..	1		1	Harmony II ..	2		2
Ear Training I ..	2		2	Appreciation ..	1		1
English 1 and 2 ..	2		2	Conducting ..	2		2
History of Music ..	2		2	Viola Normal ..	1		1
Recital, Orchestra ..	½		½	Form Analysis ..	2		2
Electives .....	2		2	Sight Singing II ..	1		1
				Psychology .....	2		2
				Recital, Orchestra ..	½		½
				Electives ..	2		2
Junior.		I.	II.	Senior.		I.	II.
Viola, Cello .....	2		2	Viola, Cello ..	4		4
Piano .....	2		2	Chorus ..	2		2
Counterpoint ..	2		2	Pages .....	2		2
Harmonic Analysis ..	2		2	Elect. Composition ..	2		2
Instrumentation ..	2		2	Recital, Orchestra ..	½		½
Methods .....	2		2	Electives .....	2		2
Management .....	2		2				
Recital, Orchestra ..	½		½				
Electives .....	2		2				



## PUBLIC SCHOOL MUSIC

This course leads to a Bachelor of Music degree and to a certificate granted by the state which permits a student to teach in the public schools.

## OUTLINE OF PUBLIC SCHOOL MUSIC

Freshman.			Sophomore.		
	I.	II.		I.	II.
Pub. Sch. Methods	2	2	Pub. Sch. Methods	2	2
Harmony	2	2	Harmony	2	2
Ear Training	2	2	Voice	1	1
Sight Singing	2	2	Piano	1	1
Music History	2	2	Sight Singing	2	
Piano	1	1	Psychology	3	
Voice	1	1	English	3	3
Orientation	1		Appreciation Mus.		2
Rhetoric	3	3	Chorus or Orch.	$\frac{1}{2}$	$\frac{1}{2}$
Chorus or Orch.	$\frac{1}{2}$	$\frac{1}{2}$	Electives		4
Junior.			Senior.		
	I.	II.		I.	II.
Piano	1	1	Piano	1	1
Voice or Violin	1	1	Voice or Violin	1	1
Conducting	2		Music Form	2	
Methods	3		Orchestration		2
Management		3	Keyboard Harmony	2	
Prin. of Interpr.	2		Practice Teach.	2	2
Pub. Speaking		3	Chorus or Orch.	$\frac{1}{2}$	$\frac{1}{2}$
Instrumentation	2		Electives	7	9
Harmonic Analysis	2				
Electives	4	5			

## DESCRIPTION OF COURSES

## PIANO

## PREPARATORY COURSE

## FIRST YEAR

1-2—Elements of pianoforte playing, including hand culture, notation and rhythm, technical exercises from Schmitt, elementary studies by Kohler, Czerny, Gurlitt, and others; selections from Lichner, Diller-Quail, Crosby-Adams, Gaynor, etc. Four hours.

## SECOND YEAR

3-4—Technical studies from Schmidt or Biehl, selected studies from Czerny, Doring, Brauer, Bertini, Burgmüller; compositions from Schumann, Wilm, Gurlitt, Gade and others. Four hours.

## THIRD YEAR

5-6—Technical from Hanon and Wiehmayer; selected studies from Czerny, Lecoupey, Berens, Leoschhorn, Heller, Kuhlau, Dussek, Reinecke; easier compositions from standard composers. Four hours.

## FOURTH YEAR

7-8—Technical studies from Wiehmayer, Special studies from Czerny, Hasert, Leoschhorn, easier studies from Bach; sonatas from Haydn and Mozart; medium grade selections from Mendelssohn, Godard, Grieg, Scharwenka, Rheinhold, etc. Four hours.

## REGULAR COURSE

## FRESHMAN YEAR

11-12—Technical studies from Wiehmayer, Phillip, Etudes from Czerny, Leoschhorn, Hasert, two part Inventions—Bach. Sonatas from Haydn, Mozart, Beethoven; compositions from Grieg, Godard, Schubert, Saint-Seans, Schumann. Four hours.

## SOPHOMORE YEAR

101-102—Technical studies from Wiehmayer, Phillip, Beringer; etudes from Cramer, Czerny, Bach Inventions; sonatas from Mozart, Beethoven; selections from Grieg, Sinding, Mac Dowell, Moszkowski, Chopin, Schubert, Liszt, and others. Four hours

## JUNIOR YEAR

115-116—Advanced technical studies from Pischner and Tausig; selected etudes from Neupert. The suites and partitas from Bach, more difficult compositions from MacDowell, Rubinstein, Chopin, Brahma, Liszt, Tchaikowsky; sonatas from Beethoven,

Brahms; concertos from Mendelssohn, Beethoven, Mozart and others. Four hours.

#### SENIOR YEAR

131-132—Selected studies from Gradus and Parnassum, Chopin, Henselt, etc.; well-tempered Clavichord Bach. More difficult sonatas from Beethoven, Brahma, Chopin; compositions from Liszt, Chopin, Schumann, Debussy, Schubert, Brahms and others; concertos from Grieg, Schumann, Beethoven, Mendelssohn, etc. Eight hours.

#### VOICE

##### PREPARATORY COURSE

5-6—One year preparatory work is required before entering upon the course leading to Bachelor of Music. This work consists of elementary vocalization to be continued throughout the courses according to the requirements of the individual, breathing exercises as applied to tone production and art of vocalization, voice placing, *solfeggio*, diction, technical exercises and simple songs. Four hours.

##### REGULAR COURSE

###### FRESHMAN YEAR

11-12—Study of exercises for the special needs of the individual voice, selected studies songs by English and American composers, stage presence. Four hours.

###### SOPHOMORE YEAR

121-122—Exercises, scales, *Concone* op. 9, songs of classic composers. Arias of moderate difficulty. Four hours.

###### JUNIOR YEAR

125-126—Continuation of *Concone* and other advanced vocalizers. Study of oratorio of Handel and Mendelssohn, etc., operas of Gounod, Offenbach, Flotow, Verdi, etc. Songs sung in French and German. Four hours.

## SENIOR YEAR

131-132—Advanced vocalizers of Concone opera II. These exercises form a transition from the Grand style to the extreme difficulties of vocalization. Songs from the classic lieder Schubert, Schumann, Rubinsteln, etc. Songs from modern Oratorio and opera sung in German. Four hours.

## CHORAL SOCIETIES

25—The chorus is an organization consisting of members of the student body. The organization sings creations of the oratorio, cantata and light opera type. One hour credit is given for a year's satisfactory attendance and interest in this work. Conservatory students are urged to have a certain amount of ensemble work for graduation in the department. One hour.

THE LADIES' GLEE CLUB  
 THE MEN'S GLEE CLUB  
 THE MALE QUARTET  
 LADIES' QUARTET

35—The personnel is chosen from the students of the Voice Department and other members of the student body who qualify for these organizations. The entire year is spent in strenuous practice of only the highest type of music and ultimately the rendition of concerts in towns within the state and states surrounding. One hour.

## VIOLIN

The description of the courses in violin suggests the type of material used, which varies to meet individual requirements. The time required to complete the several courses depends upon the talent and industry of the student.

## PREPARATORY COURSE

## FIRST YEAR

1-2—Correct position of arm and fingers. Bowing exercises, exercises for intonation in first position; studies by Weblfabrt, Henning, Sevcik, Dancic, Kayser and others; scales; easy selections. Four hours.

## SECOND YEAR

3-4—More advanced studies by Wohlfahrt, Sevcik, Dancla, Kayser, Gruenberg, Sitt in first and third positions; scales arpeggios, bowing studies, easy selections. Four hours.

## THIRD YEAR

5-6—Study of second, fourth and fifth positions. Studies by Kayser, Mazas, Sevcik and selected etudes by Gruenberg, easier student concertos by Seitz, Sitt and others; three octave scales and arpeggios; double-stops; sonatinas; selections. Four hours.

## REGULAR COURSE

## FRESHMAN YEAR

11-12—Technical studies; etudes by F. Zagie, Campagnoli, Dont, Meerts, Kreutzer; concertos by Rode, Kreutzer, de Beriot; standard solos. Four hours.

## SOPHOMORE YEAR

101-102—Technical studies; etudes by Kreutzer, Fiorillo, Rode; concertos by Viotti, Spohr, Mozart; Mendelssohn, sonatas by Handel, Mozart, Grieg, Tartini; standard solos. Four hours.

## JUNIOR YEAR

125-126—Complete review and continued technical studies; etudes by Rode, Gavinicca, Rovelli, Dont; concertos by Mendelssohn, Mozart, Vieuxtemps, Wieniawski, Bruch, Beethoven; sonatas by Grieg, Beethoven, Franck; advanced solo selections. Four hours.

## SENIOR YEAR

131-132—Thorough training of left hand technique necessary for the classical and modern literature for violin; mastery of the many kinds of bowing; intense study of standard concertos, sonatas and other compositions included in the modern concert repertoire. Eight hours.

### NORMAL TRAINING COURSE

41—Violin Normal—Study of the methods of procedure, teaching material for solo and ensemble, and pedagogical problems. Two hours.

45—Piano Normal—This course embraces the methods of teaching piano. Subjects pertinent to musical pedagogy are presented. Student is required to participate in practice teaching under supervision. Two hours.

### ORCHESTRA

The Orchestra is open to all who desire to learn something of standard orchestra work and who pass suitable examinations for admission. Only music of the highest quality is studied. One hour credit is given.

### BAND

An opportunity is offered for those who wish to play and receive instructions on any band instrument. Those who wish to play must avail themselves of the best instruments.

### THEORY OF MUSIC

1—Harmony First Year—Thorough review of scales, intervals, chords, and beginning of four part writing. Practical work. Two hours.

2—Various chords of the seventh, ninth and their inversions. Easy modulations. Practical work. Two hours.

3—Second Year—Modulations, key relations, altered chords. Much practical work required. Two hours.

4—Non-harmonic notes, dissonances, modern harmony, and review. Practical work in advanced harmony. Instrumental Application. Two hours.

101—Harmonic Analysis (Prerequisite: Course 4)—Detailed analysis of standard and representative masterpieces. Explanations of chord formations, non-

harmonic notes, modulations, etc., as applied to the piano. Two hours.

102—Keyboard Harmony (Prerequisite Course 4)—Practical work at the piano in harmonizing melodies, figured and unfigured basses, and transposition. One hour.

103—Instrumentation (Prerequisite: Courses 1-4)—Analysis of scores; study of instruments of the orchestra and band; arranging of easier composition for same. Two hours.

104—Counterpoint (Prerequisite: Course 2)—Strict counterpoint in two, three and four voices, using the various species singly and in combination. Two hours.

105—Continuation of the preceding course in the addition of more parts. Modern, or instrumental, counterpoint. Application to the invention. Two hours.

106—Canon and Fugue (Prerequisite: Courses 4-102)—Canon in a detailed study of the various devices of canon and canonic imitation. Two hours.

107—Fugue, its relation to composition and the structural development of fugue. Practical work and a thorough analysis of standard work. Two hours.

108—Form and Composition (Prerequisite: Course 102)—Analysis of all the structural factors and designs employed in musical composition from the figure, motive and phrase to the Sonata—Allegro—Form, and the irregular forms. Two hours.

109—Practical work in the smaller homophonic forms. Two hours.

110—Composition and Orchestration (Prerequisite: Course 109)—Advanced forms and composition in the larger forms. Development of variations on a theme, working out of concerto, sonata, or other forms at the discretion of the instructor. Two hours.

111—Advanced Instrumentation and arranging of some standard work for orchestra. Two hours.

11—Conducting—A two-hour course open to all students of music, but required of all candidates for Diploma, Degree and Public School Music Certificate. Thorough drill in the technique of the baton with opportunity for practical work; all phases of music necessary to the leading of an organization are considered, including a study of orchestral and band instruments and their characteristics; practical work in transposition. Two hours.

12—Ear Training I.—This course takes up the study of rhythm, intervals and melodies heard by ear. Four hours.

112—Ear Training II—A continuation of the first year course and also four part writing. Four hours.

15—Appreciation—A course on musical appreciation and construction designed to broaden musical culture by a study of some of the masterpieces from the viewpoint of the auditor. A phonograph is used. This course is offered particularly for college students and no previous technical training is required. One hour.

16—Sight Singing—One hour. Solfeggio in all keys, beginning with the simplest and most fundamental problems in pitch and rhythm; two-part singing. Two hours.

112—Sight Singing—One hour. Involves mastery of all tonal and rhythmic problems in choral music; singing by syllable, interval, neutral syllable and words, in all keys; two, three and four-part singing. Two hours.

17—Ensemble—Excellent training in ensemble playing for all instruments as found in the orchestra, quartets, trios, and duets.

18—Orchestral Instruments—In the public school music course the students become familiar with all instruments of each choir; namely, violin, cornet, clarinet, and drums.



## HISTORY OF MUSIC

113—Study of ancient and medieval music and polyphonic schools. Folk music and ancient modes in detail. Two hours.

114—Development of oratorio, opera and instrumental music. The Renaissance and its effect; Romantic composers, modern tendencies in music. Two hours.

## PUBLIC SCHOOL MUSIC METHODS

## FIRST YEAR

47—Kindergarten Methods, songs, games. The child voice, methods of teaching. Rote songs, observation songs, sight singing. Four hours.

## SECOND YEAR

48—Classification of voices, intermediate grades. music appreciation, songs, methods in grammar grades, methods in high school. Outlines for teaching harmony, instrumentation, and music history. Outlines for musical activities. Cantatas, operettas, oratorios. Four hours.

## EXPRESSION AND PUBLIC SPEAKING

For a description of courses see page 77.

## PRICES OF COURSES

Piano, Voice, Violin, under head instructor.

	one 30-min. les. a week	two 30-min. les. a week
Miss Brown	\$25.00	\$50.00
Mrs. Tate	25.00	50.00
Miss Shelley	25.00	50.00
Miss Lehman	20.00	40.00
Under Assistant	18.00	36.00

History, Theory, Harmony, Counterpoint, Canon and Fugue, Form, Composition, Orchestration, Ear Training, Conducting, Sight Singing. Public School Music Methods, or Folk Games. One semester hour—\$5.00.

When fewer than five are in one class tuition will be charged at rates of private lessons divided equally among the class.

No reduction made for lessons missed through fault of student and such lessons will be made up only through the courtesy and at the discretion of the instructor.

Lessons falling on legal holidays, when general school activities are suspended, will not be made up.

Lessons missed through sickness will be arranged to suit the convenience of the instructor.

#### CLASS INSTRUCTION FOR CHILDREN

From 5-12—four in class—each semester (45 minute lessons a week)—each pupil—\$9.00.

### ART

The study of art is one of the mediums through which we learn thoroughly to know and to appreciate nature and life. We have a wide range of subjects for study and interpretation.

Art students are required to furnish their own materials except easels and drawing boards. Every student is expected to work  $2\frac{1}{2}$  hours per week for each hour of credit given.

#### PAINTING

1-2—First Year—Still Life, Arrangements of still life in water colors, oil, pastel. 3-4 hours, each semester.

3-4—Second Year—Still Life, Landscapes. Study of Color and Pigments. 3-4 hours, each semester.

101-102—Third Year—Study from life, landscape and still life. 4-6 hours, each semester.

121-122—Fourth Year—Continuation of third year courses. 4-6 hours, each semester.

## DRAWING

5-6—First Year—Drawing from cast. Study of form and values, principles of perspective. Simple composition in still life. 2-4 hours, each semester.

7-8—Second Year—Development in the handling of pencil, charcoal and ink. Study of still life and landscape. Original Compositions. 4 hours, each semester.

131-132—Third Year—Advanced Drawing. Continuation of second year. 4 hours, each semester.

## ENGRAVING

135-136—Third Year—Wood engraving. Study of principles and practice of engraving on wood blocks from which prints are made. 2 hours, each semester.

137-138—Fourth Year—Lithography. Etching (Dry point). 2 hours, each semester.

## HISTORY OF ART AND APPRECIATION

151-152—History of Painting, etc. 2 hours, each semester.

## INDUSTRIAL AND APPLIED ART

160—Industrial Art problems for Primary Teachers. 2 hours.

21—Methods of using water color, elements of design, blackboard drawing, weaving, modeling, paper cutting and lettering. Two hours.

22—Industrial art for intermediate teachers. Problems adapted to children. Fourth to Eighth grades. Two hours.

23—Industrial Art for High School Teachers. Problems in design and Construction adapted to high school pupils. Two hours.

## DESIGN

31—Elementary Color and design—Principles and practice of design, color harmonies, original

design and color harmonies which may be applied to leather, wood, glass, fabrics, etc. Three hours.

32—Poster design—Practice in lettering. Study of alphabets suitable for posters. Advanced color and designs. One hour.

33—Basketry. Two hours.

34—China Painting—Realistic, Conventional. 2-4 hours.

#### FEEES FOR ART WORK

Private work	\$7.50 per credit hour
Class work	\$5.00 per credit hour

## THE SUMMER SCHOOLS

## McPHERSON COLLEGE SUMMER SCHOOL

## THE TEACHING STAFF

The summer school is one of the regular annual terms of school in McPherson College. It is designed to provide an opportunity for students to progress more rapidly toward some undergraduate degree or correct irregularities in their various courses. It also makes it possible for teachers to continue self-improvement while in service as well as to qualify for renewal of certificates. The college courses offered are essentially the same in character, methods, and credit value as in other parts of the school year. A demonstration elementary school will be conducted on the campus during six weeks of the summer school for purposes of observation and practice teaching. It will be in charge of Miss Mary Fee.

- Y. F. SCHWALK, A. M., Ph. D.  
Manchester College, Columbia University, University of Chicago.  
*President, McPherson College*
- J. A. BLAIR, A. B., A. M.  
Kansas University, Colorado University.  
*Director of Summer School, Education and Psychology.*
- J. W. HERSHEY, M. S., Ph. D.  
Gettysburg College, Harvard, Johns Hopkins, Chicago University.  
*Science.*
- G. N. BOONE, A. B., M. S.  
A. B., McPherson College, 1921; M. D., University of Wisconsin, 1925.  
*Manual Arts and Reviews.*
- J. HUGH HECKMAN, A. B., B. D., Th. M., A. M.  
A. B., Mount Morris College, 1912; B. D., Bethany Bible School, 1916; Th. M., Bethany Bible School, 1920; A. M., University of Chicago, 1929; Columbia School of Expression, 1915.  
*Philosophy and Social Science.*