



McPHERSON COLLEGE
McPherson. Kansas

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DIRECTORY

Inquiries should be directed to

McPHERSON COLLEGE
McPherson, Kansas 67460

General Information	J. Jack Melhorn, President
Academic and Curricular	Merlin L. Fragitz, Dean of Academic Affairs
Student Activities and Financial Aids	Raymond L. Flory, Dean of Student Affairs
Business Accounts	R. Gordon Yoder, Business Manager and Treasurer
Development and Gifts	Kenneth Yingst, Director of Development
Alumni Affairs, Church Relations	Paul Waggoner Associate Director of Development
Publicity and Promotion	Larry Marcellus, Director
Admissions	Gay Hayes, Director of Admissions
Transcripts and Records	E. Dean Reynolds, Registrar
Teacher Placement	Dayton G. Rothrock, Placement Bureau
Summer Session	Dayton G. Rothrock, Director

Telephone 316 241-0731

McPHERSON COLLEGE BULLETIN

McPherson, Kansas

Vol. 36

April, 1967

No. 9

Published monthly, except June and August, by McPherson College, 1600 East Euclid, McPherson, Kansas. Second-class postage paid in McPherson, Kansas.

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McPHERSON IN BRIEF

McPherson College was founded in 1887. It is sponsored by the Church of the Brethren, but is open to all without respect to creed, color, race, or national origin.

The Purpose of the college is to offer a quality liberal arts education which has a Christian emphasis in all departments. Included in this are pre-professional offerings, teacher preparation for elementary and secondary education, wide curricular offerings in the sciences, humanities, religion, industrial arts, home economics, rural life, music, art, physical education, and other preparation.

McPherson Faculty is alert and well trained. The percentage of Ph.D. instructors is high and increasing. The buildings and instructional equipment are adequate and are geared to specific needs and offerings. A progressive program adds to these continuously.

Students at McPherson College help to govern themselves. Democracy and cooperation are central in the entire college program. Spiritual growth and expression are sought for in each student's life. The enrollment is approximately 800. Residence Halls for men and women students and apartments for married couples are available.

Accreditation is standard. The college is fully accredited by the North Central Association of Colleges and Secondary Schools and other national, area, and state accrediting bodies.

McPherson College is a member of the Association of Colleges of Central Kansas working cooperatively in educational projects with Bethany College, Bethel College, Kansas Wesleyan University, Sterling College, and Tabor College.

The Degrees granted by McPherson College are the Bachelor of Arts and the Bachelor of Science. Transfer of credit to graduate schools is easily accomplished.

An International flavor is made possible at McPherson College because students from other countries and continents are included in its student body. This brings about free intermingling of a variety of religious groups as well.

McPherson Alumni have distinguished themselves in almost all professions and fields of work. This attests to the good liberal arts, or general education, which McPherson is able to give as well as to the character development McPherson is able to encourage.

Costs at McPherson College are reasonable. Tuition is \$27.00 per semester hour. Rooms rent from \$120.00 to \$190.00 per semester, and board is furnished by a nationally known food service agency at a reasonable cost per semester. Total cost ranges from \$1600 to \$1700 per year for a full-time student.

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Application for Admission

McPHERSON COLLEGE ACADEMIC CALENDAR

1967-1968

First Semester

August 28, 1967	Freshman and Transfer Student Orientation Day
August 29, 30, 1967	Enrollment
August 31, 1967	Classes Convene Thursday, 7:30 a.m.
September 2, 1967	English Proficiency Examination
November 23, 1967	Thanksgiving Recess
December 14, 1967	Library Day
December 15, 16, 18, 19, 20, 1967	Final Exams for First Semester (Friday through Wednesday)

Second Semester

January 16, 17, 1968	Enrollment
January 18, 1968	Classes Convene Thursday, 7:30 a.m.
January 20, 1968	English Proficiency Examination
March 28, 1968	Spring Recess Begins, Thursday, 12:20 p.m.
April 9, 1968	Spring Recess Ends Tuesday, 7:30 a.m.
May 16, 1968	Library Day
May 17, 18, 20, 21, 22, 1968	Final Exams for Second Semester (Friday through Wednesday)
May 26, 1968	Baccalaureate-Commencement (Sunday, 2:30 p.m.)

1967 Summer Sessions Beginning May 29, June 26, July 17, August 7

1968 Summer Sessions Beginning May 27—August 16, 1968



MESSAGE FROM THE PRESIDENT

Your college education can be the most important experience of your life. These are the years when you become excited about new ideas, people, and the world of science. These years are important in making decisions about your ideals, philosophy, vocation, and choice of a life partner.

McPherson College is a co-educational, liberal arts college, located in McPherson about 60 miles north of Wichita. Two degrees are granted: the Bachelor of Arts and the Bachelor of Science. The College was founded in 1887 and is a private, independent, church-related institution operating under the auspices of the Church of the Brethren. Among its 49 faculty members, and its student body of

about 800 full-time students, are persons of a variety of denominational commitments.

The College is fully accredited by the North Central Association of Colleges and Secondary Schools and the American Association of University Women. The Teacher Education Program is accredited by the Kansas State Department of Education. McPherson College is a member of the Kansas Association of Colleges and Universities, the Kansas Council of Church-related Colleges, and the Kansas Foundation for Private Colleges, Incorporated.

Students are attracted to McPherson College by the dual emphasis on academic excellence and religious vitality. The College surrounds itself with students and opportunities for full development: intellectual, religious, moral, artistic, and social. The College does not tell a student what he should believe, but it does expect him to grapple with the basic religious and philosophical questions and try to arrive at a position of his own. Religion and liberal learning are regarded as mutually supportive.

The curriculum is built around a common body of knowledge and skill which all students are required to answer. The common portion extends through the four years and culminates in a senior program which helps the student integrate his undergraduate education. The College designs for itself a coherent pattern which relates purpose, staff, and program in such a manner as provides for a meaningful educational experience.

At McPherson College we have the following four emphases: (1) a conscientious effort of study and work in the area of conflict resolution, (2) a renewed involvement in the meaningfulness of person-to-person relationships, (3) a definite dedication in being an academic community of committed persons, and (4) a genuine emphasis on meeting realistically the needs of the community, nation, and world.

At McPherson College the trustees, faculty, students, and alumni believe that we are preparing students for a life of service. Classroom, sports, music, dormitory, campus activity, and the intimate interaction of student with teacher are the laboratories that in some way build seriousness about life and leadership that is characteristic of the McPherson graduate.

J. Jack Melhorn
President



GENERAL INFORMATION

Definition of the institution's educational task.

The aims of the College can be summarized under the following four categories: liberal education, religious development, professional education, and personal development.

At McPherson College, liberal education focuses its attention on each individual student. It interests itself in his relation to society and undertakes to help prepare him to live well in all relationships. It seeks to help him to learn what the good life is and how to achieve it for himself. It aims to give him both breadth and depth of human understanding. It is interested in helping him become a good citizen. It seeks to provide him with the necessary background of understanding and experience to develop a philosophy of life which will have meaning for him in his vocation or profession.

As a further development of liberal education, McPherson College seeks to develop in its graduates:

- (1) achievement in scholarship
- (2) mastery of techniques and tools of further learning
- (3) the ability to think clearly, logically, and critically
- (4) growth in a direction of more significant insight
- (5) finer moral discernments and aesthetic sensitivities
- (6) a loyalty to truth in all realms of life
- (7) commitment of life and abilities to useful purposes

To accomplish this, the College offers preparation in the major fields of human experience: the arts, natural sciences, the social sciences, religion, and philosophy. Breadth of outlook is developed by requiring the student to survey in a general way the various large fields of knowledge, mainly during the early years of his college experience. Depth and intensity of understanding are sought by requiring the student to select some field in which he will do more specific study.

The religious development at the College is fostered through the following aims: to acquaint the student with the intelligent understanding of the basic doctrines of the Christian religion; to help him develop a Christian perspective of the universe and a Christian oriented philosophy of life; to confront him with the ethical ideals of the Christian religion; and to help him become involved in the community in a charitable manner.

To help achieve these ends, the College employs persons who are Christian. It offers courses in Bible, church history, ethics, philosophy, and comparative religions, which provide the intellectual foundation for the Christian faith. It conducts worship programs in the chapel and cooperates with all the churches in the community in promoting a religious life. It provides student Christian organizations, brings

to the campus religious leaders for addresses and discussions, and through person-to-person contacts seeks to provide an environment which will help each student in developing a vital religious life.

Each student at McPherson College is assisted early in his college career to develop a professional or occupational direction and to design a program of studies including liberal arts courses which will enable him to obtain his goal.

The College recognizes that the preparation of students for teaching is one of its important functions since many of its graduates enter the teaching profession. The Education Department, assisted by other departments, prepares students for certification and competent teaching in both elementary and secondary fields. The rural life program at the College seeks to prepare both men and women for efficient and progressive farm life and for significant rural leadership. The College also provides certain other courses which are pre-professional or occupational in outlook. Among these are home economics, industrial arts, business administration, stenography, music, art, pre-engineering, pre-medical, and pre-law. In addition to these, the College seeks to prepare students for full-time Christian service, which includes the ministry, missions, Christian education, and worldwide service projects. In all of these professions, a broad liberal arts education is emphasized.

In personal development, the following areas are stressed: personal character, social development, social responsibility, physical well-being, Christian homemaking, and Christian vocation. In the area of personal character, the College seeks to develop within its students the desire for altruistic living. Some of the emphasized traits would be poise, self-control, self-discipline, a well-ordered life, and a dedication to truth and to goodness. In order to provide opportunities for personal growth, McPherson College attempts to offer a well-rounded program that affords many students opportunities for participation and involvement in the campus community.

The College works with each student to help him achieve social poise and social competence through general instruction, personal conferences, and social activities, and by many opportunities for the faculty and students to be together in community.

It is the aim of the College that each student achieve a sense of intelligent and realistic concern for his fellowmen. The ethos of the College is one in which the entire College community attempts to practice the Christian ideal of service as an important goal of the well-ordered and whole life.

The College aims to assist the student in developing himself physically and socially through a program of physical education, recreation, and athletics. Efforts are made to guide students into participation in various forms of intramural and intercollegiate sports. The intercollegiate program seeks to aid in the physical and social develop-

ment of those who participate and to cultivate, both in the participants and in the entire College, a sense of wholesome sportsmanship and competitiveness. In this area it is the aim of the College to produce better persons rather than highly specialized athletes.

The College seeks to emphasize the Christian home as one of the basic social units of a Christian society. In addition to offering courses designed to help students build homes which are financially sound, aesthetically attractive, and spiritually creative, the College affords the students many opportunities to share family life with the faculty and administration.

In addition to seeking to encourage the student to make a vocational commitment for the general betterment of society and the world, the College also seeks to assist him in carrying into whatever occupation he enters a sincere desire to make that vocation a significant channel of Christian service to his fellowmen.

McPherson College can be classed as a free Christian college. It is free because it does not control thought; Christian because it has a definite commitment. Most of its faculty share its religious purposes and consider them to be important in the life of the College.

The College Plant . . .

MOHLER HALL, houses administrative offices, professors' offices, and eight classrooms. It, therefore, is the center around which much of the life and work of the campus revolves. Constructed in 1960, it is of beautiful and modern design.

JESSIE BROWN AUDITORIUM was constructed in 1960, with a seating capacity in excess of 1200. Because of its exceptionally fine stage, lighting, and sound equipment, this auditorium serves not only the College but also the community and the area for chapels and assemblies, plays, operas, lectures, civic affairs, and religious gatherings.

FRIENDSHIP HALL AND ART CENTER connects the buildings mentioned above and serves for art exhibits, social gatherings, and, indeed, as a friendship center. These three buildings constitute the front of the campus and are approached through an attractive entrance to the campus.

STUDENT UNION, a commodious and beautiful building, was constructed in 1961. It contains cafeteria, college bookstore, offices, game, lounging, and study areas. It adds much to the home atmosphere of the college.

HARNLY HALL is a four-floor edifice. All of the science departments, including Home Economics, are housed here, as are also the departments of Modern Languages and Sociology, some of the music areas, and the Museum.

THE BEEGHLY LIBRARY was originally a gift of Mr. Andrew Carnegie, but was renovated through the help of Milford J. Beeghly of Iowa. The library houses an up-to-date and usable collection of books for all areas of study, including a curriculum laboratory.

ARNOLD HALL, is a substantial, four-floor building serving as a men's residence hall. The Art Department is located in the basement of the building.

METZLER HALL, men's residence, completed in 1963, houses 158 men. This residence hall is spacious and modern in every detail.

FAHNESTOCK HALL, another men's residence, provides accommodations for 60 men; with the housemother's apartment and a student lounge on the second floor.

KLINE HALL is a three-floor brick building containing rooms for 30 girls with light housekeeping privileges.

BITTINGER HALL, occupied for the first time in the fall of 1966, completely air conditioned, offering new concept in living in units of four, carpeted throughout; housing 164 men.

ROYER and EDNA DOTZOUR HALL is a commodious women's residence with facilities for 180 women made possible by a gift from Mr. and Mrs. Dotzour. It has generous lounge accommodations; spacious and well-lighted rooms; and a large room with laundry, cooking, and refrigeration equipment. A guest room and house-

mother's apartment are included in the building. An addition to it was constructed in 1961, which enhanced not only its utility in terms of capacity but also its spaciousness in terms of lounge and other facilities.

COLLEGE COURTS, or apartments for married couples, are provided at the edge of the campus. These are partially equipped, are of modern design, comfortable, and attractive. The Courts will accommodate 24 families.

THE PHYSICAL EDUCATION AND HEALTH BUILDING has offices, a classroom, a game room, showers, dressing rooms, and a gymnasium. This modern building offers excellent opportunity for a program of physical and health education for all students.

THE FRANTZ INDUSTRIAL ARTS BUILDING is equipped with tools for cabinet making, welding, turning, machine work, craft and farm shop work. It was made possible through gifts from the Frantz families.

THE J. C. BELL RURAL LIFE LABORATORY serves as a laboratory building for rural life and farm shop courses. It is equipped with up-to-date machine tools. It was made possible by J. C. Bell.

VANIMAN HALL is a spacious, three-story building which was given to the College by the F. A. Vaniman heirs. This building serves in several capacities.

THE PRESIDENT'S HOME was given to the College by the W. C. Heaston heirs. It has become the place where students meet in groups or with the president's family for discussions, socials and counseling.

THE FORNEY HEATING PLANT is named for M. W. Forney, who served the College faithfully for many years as superintendent of buildings and grounds. An addition to it, made possible in 1962 by the gift of Mr. and Mrs. E. J. Frantz, makes this also the workshop for the college.

THE MUSEUM contains many rare and valuable fossils, cultural artifacts, varied flora and fauna, and many valuable meteorites, besides a very large number of historic displays. It is housed on the fourth floor of Harnly Hall.

THE ATHLETIC FIELD is composed of a gridiron, a quarter mile track, and a playing field for football, soccer, archery, and many other group games. It is lighted for night games. A modern and well-equipped stadium of steel provides seating for about 4000 spectators. Flex-surf tennis courts are also provided.

LABORATORIES are maintained for chemistry, biology, physics, geology, industrial arts, rural life, and home economics. A new greenhouse has been added for use in the botany courses. Visual education equipment and modern teaching devices are available. The student finds at hand the equipment he needs to further his education and a helpful teacher to assist him in the use of it.

History . . .

McPherson, centrally located in the State of Kansas, is in a rich agricultural area which has become well known for its production of wheat as well as its rich resources of oil and gas. McPherson is a growing city of about ten thousand people and is the seat of government of McPherson County. It is a city of prosperous merchants, beautiful homes, parks, and trees.

McPherson is easily accessible by public transportation. Two national highways, 81 north and south and 56 east and west, cross in McPherson. Interstate Highway 35 links McPherson with Interstate 70. Nearby Wichita and Salina are served by major airlines. Main lines of the Rock Island, Santa Fe, and Union Pacific are available at McPherson, Newton, and Salina respectively.

McPherson College was founded in 1887. Ground was broken for the first building, Fahnstock Hall, on October 19, 1887. The first school term began September 5, 1888; S. Z. Sharp was the first president; sixty students were enrolled and there were seven faculty members.

In 1932 Mt. Morris College, Mt. Morris, Illinois, merged jointly with Manchester College in Indiana, and with McPherson College. The Mississippi River became the dividing line between the two college territories. Thus, two colleges were able to share in the illustrious Mt. Morris history.

Alumni Affairs . . .

The McPherson College Alumni Association includes all graduates of the College, former students who have completed twenty-four semester hours of credit at McPherson, and those who have received a certificate or diploma from a department of the College.

The Alumni Association attempts to promote the interests of McPherson College, and to establish mutually beneficial relations between the College and all of its alumni.

The alumni program includes these major emphases: homecoming, the annual alumni banquet, class reunions, alumni chapter meetings, alumni publications, and alumni giving. The college employs a director of alumni affairs who coordinates these emphases through the Alumni Office on the campus.

STUDENT LIFE

Cost at McPherson College . . .

Estimated Costs per year \$1500 - \$1720

Within this estimate are included tuition (30 hours), board, room, health service, student activity privileges, student publications, and the general fee.

Costs can be particularized as follows:

Tuition, \$27.00* per semester hour (30 hours)	\$ 810
Room, \$120 to \$190 per semester	\$ 240 - 380
Board, \$220 per semester	440
General fee, \$45 per semester	90
Total for the year	\$1500 - \$1720

Some saving can be effected by choosing one of the cheaper residence halls.

More cost is incurred if more than 15 hours are carried per semester. Residence halls are as follows per semester:

Arnold Hall- Men	\$120.00
Bittinger Hall- Men	190.00
Dotzour Hall- Women	155.00
Fahnestock Hall- Men	140.00
Kline Hall- Women	120.00
Metzler Hall- Men	165.00
College Courts- Married Couples	
One-bedroom apartment	\$ 50.00 per month
Two-bedroom apartment	60.00 per month
Electricity to be paid by renter	

*Per hour tuition rates for enrollments of less than 12 hours per semester are:

1 - 8 hours	\$29.00 per hour
9 - 14 hours	31.00 per hour

(General fee is not charged)

Special Charges and Fees (not included in the above estimate)

Auditing courses, each semester hour	\$15.00
Chemistry breakage deposit, courses 1 and 12	2.00
Chemistry breakage deposit, all other chemistry courses except 152	5.00
Change of enrollment after second week of school	5.00
Late registration	10.00
Late examinations	5.00
Placement Bureau enrollment	5.00
Placement Bureau, notification service	5.00
Private music lesson fee, per semester hour (in addition to regular tuition)	4.00
Transcript (first one free)	2.00
Record Rebuilding Fee	10.00
Application Fee	10.00
Blue Cross-Blue Shield Insurance (optional) per year*	23.04

The cost of books is not included in the above estimate. This varies by courses. Used books, from former students, are sometimes available. Clothes and personal expenses likewise are not included. These vary with the individual, but such costs can be reasonable if the student wishes to keep them so. There are no social fraternities or sororities.

*Methods of Payment*a. *Optional plans*

1. Cash in full each semester at the time of enrollment. Discount of \$5.00.
2. Two equal payments each semester. Half at enrollment, half at mid-semester. SERVICE CHARGE of \$5.00 each semester (1 per cent interest per month on past due balance).
3. Four equal monthly payments each semester (September 1, October 1, November 1, December 1; February 1, March 1, April 1, May 1). SERVICE CHARGE of \$40.00 each semester (1 per cent interest per month on past due balance).

b. *Monthly installments*

We are glad to offer the convenient *Tuition Plan* for those parents who prefer to pay tuition and other fees in equal monthly installments. The following plans are available at the cost indicated:

1. Four year plan (72 payments) 16.02 per cent more than cash price.
2. Four year plan (60 payments) 10.95 per cent more than cash price.
3. Four year plan (40 payments) 6 per cent more than cash price.
4. Three year plan (30 payments) 6 per cent more than cash price.

*Subject to change

- 5. Two year plan (20 payments) - 7 per cent more than cash price.
- 6. One year plan (10 payments) - 4.5 per cent more than cash price.
- 7. One year plan (8 payments) - 3 per cent more than cash price.

The 2, 3, and 4 year plans include Parent Life Insurance for qualified parents. This insurance coverage provides funds for the cost of the remaining period of schooling covered by the contract, if the parent who has signed the contract dies. A descriptive pamphlet will be sent upon request.

The Tuition Plan is optional and offered solely as a convenience. It is operated by the Tuition Plan, Inc. of New York City.

- 7. Students enrolled for less than 12 hours - cash in full at time of enrollment - no discount.

In keeping with general college practice, a student who is delinquent in the payment of any fee, account or note due to the College will not be allowed to graduate or be furnished with a transcript showing scholastic standing until such indebtedness has been paid.

Refund of Tuition, Board, and Room Rent will be made on the following basis: 90 per cent will be refunded if withdrawal is made during the second week, and for each succeeding week the refund will be decreased by 10 per cent. After ten weeks of the semester have lapsed, no refunds will be made. Fees are not subject to refund. No refund or adjustment will be made unless authorized by the Dean of Academic Affairs, or by the President in the absence of the Dean of Academic Affairs.

Room Reservation and Room Deposit: Students may reserve rooms in the residence halls in advance of the opening date by depositing a fee of \$25.00, which is held as a breakage fee until the close of the year. Extra charges are made each semester for approved electrical appliances. All students are expected to live in the college residence halls and partake of the food plan unless they commute from their homes. However, if rooms are no longer available in the residence halls, students will be located in approved private homes. The paid fee will assure the students of rooms in the residence halls in the order in which their names appear on the waiting list. The room reservation fee will be refunded if the request is reserved by July 1. The second semester room reservations will be refunded if request is made before Christmas vacation.

Room Furnishings: Since the college does not supply bedding the student is requested to bring his own. Bedding for single beds, including pillows, pillowslips, sheets, blankets, quilts, bed covers, likewise, curtains, rugs, and personal items may be brought as desired for the room.

Application Fee and Advance Deposit: A non-refundable application fee of \$10.00 is to accompany the application for admission. All students who are accepted for admission are required to make an advance tuition deposit of \$50.00 which is due 20 days after notification of acceptance for admission. This deposit for educational expenses is non-refundable.

Financial Aids . . .

Scholarships, loans, and grants-in-aid to students are awarded through a Scholarship, Loans, and Aids Committee. Although a student may be eligible for more than one scholarship and/or grant-in-aid at one time, he is eligible to receive the monetary benefit for only one (unless exception is made by the committee) and he may choose the one he wishes to utilize. The proper blanks may be secured from the Financial Aid Officer or the Admissions Office. Any student making application for an Educational Opportunity Grant will be asked to fill out the forms supplied by the College Scholarship Service. All students receiving scholarships or grants-in-aid must maintain a credible scholastic record. Scholarships and grants-in-aid do not apply to summer school work unless specially voted by the committee.

I. SCHOLARSHIPS

Competitive Honor Scholarships ranging in value from \$600 to \$2000 are available to members of the entering freshman class. The student must maintain a "B" average each semester to qualify for the total maximum value of the scholarship.

High School Merit Awards, with a total value of \$500 each, are available to students in the top ten percent of high school graduation classes; a limited number of \$400 scholarships are available to those who make very high ratings on ACT and other test scores.

Junior College Merit Awards, with a total value of \$250 each, are available to students in the top ten percent of junior college graduation classes.

Upper Class Scholarships, with a total value of \$100 each, are offered to two McPherson College freshmen, sophomores, and juniors each year for the succeeding year. These are awarded on the basis of one semester, three semesters, and five semesters of college work respectively.

Music Scholarships, ranging in value from \$25 to \$600 are available.

Memorial Endowment Scholarships are available to worthy students through endowment funds provided in memory of: Glen Donald Austin, Virginia Meyers Berkebile, Walter E. Berry, Earl Eby Curtis, Samuel Theodore Elrod, Mrs. Rosco C. Ingalls, and Edith D. Keller.

Special Scholarships or grants-in-aids are established at the college from time to time for students from a certain church, state, or group. Examples of these are:

- a. *The Mr. and Mrs. E. J. Frantz* scholarships or grants are made possible through the continuing gifts which Mr. and Mrs. Frantz have made for students who need financial assistance.
- b. *The Rosco Ingalls* scholarship fund is in memory of his wife, Grace Vaniman Ingalls, and focuses more particularly on students beyond the freshman year and on junior college transfers.

- c. *The Victor and Rosalie Ullom* scholarships or grants established as a memorial to Victor and are primarily for students from Colorado.
- d. *Dr. and Mrs. Earl Frantz* and their children have established the Earl and Lela Frantz Scholarship Endowment Trust. The proceeds are to be used for scholarships, grants, or loans.
- e. *The Ernest and Olivia Ikenberry Loan Fund* is established in memory of Olivia and was made possible by her husband, family, and friends.
- f. *The Len and Stella Harden* scholarship fund has been established to assist worthy students in science, mathematics, or preparatory medicine.
- g. *The Peoples State Bank* scholarships or grants are for worthy students coming from the McPherson area.
- h. *The Southwestern Bell Telephone Scholarships* are for worthy students from Central Kansas.
- i. *The Bethany Brethren Hospital Nursing Educational Scholarship* is available to students who are preparing for nurse's training.
- j. *Other Groups* who have made scholarships available for certain categories of students are: Men's Fellowship of the District of Kansas, Men's Fellowship of the Wichita Church, District 367 of Rotary International, McPherson Baptist Church, O. F. McGonigle, church districts, youth organizations, and others. Inquiry can be made about these from the College.

Graduate Scholarships are offered annually to McPherson graduates by leading universities. These vary in value and in term. Members of the senior class possessing proper qualifications will be recommended for these.

Scholarships from various foundations are available to graduating seniors upon recommendation by the College.

2. GRANTS-IN-AID

International Student Grants, up to twelve, are made available to international or foreign students. These apply toward tuition only.

Children: Thirty per cent college tuition for any number of hours enrolled up to sixteen hours per semester is available to the unmarried children of those who are engaged in full-time Christian service as identified under Ministerial loans.

Brethren Volunteer Service: Grants-in-aid of 30 per cent tuition are available to those who have served in BVS without pay. These grants are for the same number of years served, not to exceed two years.

Family: When there are two regularly enrolled college students from the same family and neither has received a scholarship or grant-in-aid from the College, each will be given a discount of 5 per cent of tuition. When there are three regularly enrolled students from the same family and none has received a scholarship or grant-in-aid from the College, each will be given a 10 per cent discount.

Special grants-in-aid of varying amounts, up to \$100.00 a semester, are made to worthy students based upon need.

Educational Opportunity Grants are available in limited numbers for students from low income families. These grants are sponsored by the Federal Government.

Matching Aids: The College will match, up to \$5000 a semester, grants-in-aid made by Churches of the Brethren, or other selected groups, where worthiness and need of the student have been established.

Veterans' Benefits: McPherson is on the approved list to handle veterans benefits as administered under existing Federal laws.

3. ASSISTANTSHIPS

The College employs student assistants for its instructional staff. The students are usually selected from the upper classes and must be students of high scholastic standing. All appointments are made for one year and are conditioned upon satisfactory service and the approval of the Administrative Committee of the College.

4. LOANS

The College participates by supplying part of the funds or in processing the applications, or both, in a number of loan programs. Some of these are:

National Defense Student Loan Fund is a fund through which the College is able to loan approximately \$50,000 annually. This fund was designed to give preference to prospective teachers and to others in critical courses of study. Good scholarship and definite need are both requirements for these loans.

United Student Aid Fund is a private, nonprofit service corporation which endorses low-cost, long-term loans made by local banks to needy college students. Loans are available in amounts up to \$1,000 per year to students who have completed the freshman year. The College invests matching funds with United Student Aid, and currently has available very substantial amounts for students to use.

The Tuition Plan is a deferred payment system through which the cost of college may be spread out in monthly installments over one, two, three, or four years. A patent life insurance provision is automatically included.

The Loan Fund of the Church of the Brethren has limited funds available for Brethren students.

The Federated Women's Clubs of McPherson and the *Rotary Club* of McPherson have placed loan funds at the disposal of students who meet their qualifications.

The McPherson College Scholarship Loan Fund was formerly the most important loan source for students. Of recent years, however, the assets that have come to that fund have generally been transferred as matching portions in several of the other loan funds to broaden the available loan base. Many individuals and groups have contributed

to these loan and grant-in-aid funds. Some of these are: Beatrice Assembly, Albert and Charles J. Cochran, John Samuel Evans, E. J. Franz, Mrs. E. E. Greenough, Mrs. Sarah Whitmore Harnly, Dr. W. C. Heaston, Della Howner, Rusco Ingalls, Mrs. Elizabeth Kenner, O. F. McGoogle, the McLough Church, Frank Rhodes, Mrs. Sarah Ellen Rock, Dr. Ralph Y. Strohm, Rev. and Mrs. Ernest Kenbergs family, Texas-Louisiana District, various youth groups, and others.

Ministerial loans amounting to up to 30 per cent of college tuition for full-time enrollment of up to sixteen hours per semester, will be granted to juniors and seniors who are preparing for the ministry or for full-time Christian service. This loan will carry no interest until the student discontinues his work at McPherson College or graduate school. At any time up to ten years after his discontinuance of his course of study at McPherson College, this loan will be automatically retired at the rate of 20 per cent of its face value for each full year of service the student renders as a pastor of a local church, full-time minister of music, or full-time director of Christian education in a local church, missionary under the auspices of his denomination, or full-time worker in Brethren Service.

Interest at the rate of 4 per cent will be assessed for any unpaid balance after three years following the date of discontinuance of course of study at McPherson College.

3. EMPLOYMENT

There is some opportunity for students to earn money both at the College and in the town of McPherson. The Food Service supplies work to a number of women and men. There is janitorial work for dependable students. Some students find clerical work in the college offices, and some work in the library. In addition to this, many students find work in private homes, stores, service stations, garages, and restaurants in McPherson. However, it should be understood that only a relatively small part of one's total expense can be earned by part-time employment and that jobs are limited. Caution should be exercised in the number of work hours a student undertakes. A maximum working load should be fifteen hours, if one is carrying a normal load of school studies.

The Placement Bureau assists graduates and former students to secure positions in their professional fields. Registration blanks may be secured in the Education Placement Office. A nominal fee of \$5.00 is charged for life membership. The only occasions when additional charges would be incurred are in event of the need for additional sets of credentials or for use of the vacancy notification service. Charges are \$2.50 for each additional set of three credentials and \$5.00 for each season's use of the notification service. Members of the placement bureau are urged to keep their credentials up to date by adding new recommendations, additional academic work, or change in personal data. Credentials will be sent to any school at the request of the member or a school system.

A placement service for other fields than teaching is also maintained

in the Placement Bureau. Many business firms make contacts through this office in recruiting employees. Current information concerning job opportunities is made available to graduating seniors.

The College, particularly through its admissions offices, assists students to find work. Many McPherson and area businessmen and farmers report part-time student jobs to this office which in turn makes this information available to students.

Counseling and Personal Services . . .

Counseling: The change from high school and home to college life sometimes involves difficulties of transition. A counseling service under the supervision of the Personnel and Counseling Committee is provided to assist students in making the adjustment to college life and to guide them through college and into the business and professional world. Each student is assigned a counselor to aid him in curricular or other problems. Later this guidance is given through his major professor.

Faculty members offer their time freely to counsel with any student on any subject, or to visit with them for the purpose of friendship and growth.

In addition, the College provides the services of a professional psychiatrist who comes to the campus on a regularly scheduled basis.

Scholarship is stressed, and health, emotional balance, personality adjustment, economic intelligence, religion, and vocational purpose are values sought for in each student. A special effort is made to help freshmen and new students become oriented to college life. Faculty members and students direct a program to help in this process. During the opening weeks of school, a special effort is made to orient new students to the meaning of a liberal education, and to college life in general.

Health: The health service of the College is under supervision of the school nurse. The scope of the health service is as follows:

1. To pay \$2.00 for each of three calls per student per semester at a physician's office and \$3.00 for one residence call. All calls must be approved in advance by the school nurse or the house-mother of Dotzour Hall.
2. To pay \$6.00 per day for use of a room in the McPherson County Hospital for three days each semester, subject to approval in advance by the school nurse.
3. To give first aid treatment at any time.
4. To supervise and maintain general sanitary conditions and health influences.
5. To advise and refer for specialized medical care any student needing such attention.
6. To give advice in matters concerning personal health and hygiene.

Costs of all other office calls, examinations, medicine, X-rays, and special treatments must be paid by the student. However, McPherson College has made arrangements with the Blue Cross-Blue Shield whereby the student can obtain complete health insurance coverage for the very nominal fee of \$23.04 (for a single student, subject to change) per calendar year.

Testing Service: All incoming students are required to take the tests of the American College Testing Program prior to admission or immediately upon matriculation. The scores on these tests are used for counseling purposes. During the period of orientation, additional tests are administered to freshmen. Results from all of these tests are made available to counselors to be used at their discretion in counseling students. Students interested in exploring their capacities and in securing vocational, educational, or professional guidance will be given suitable tests and interpretations of the results by one of the deans.

Moral and Religious Influences: McPherson College is vitally interested in the religious life and development of its students. It desires for each student an intelligent, living faith which will integrate personality and express itself in noble Christian character and worthwhile work.

An environment favorable to these aims is provided by the College and added to by the City of McPherson with its many churches, its Y.M.C.A., and its emphasis on things cultural and religious. A Convocation period is held once a week. Voluntary Chapel and various religious and special interest groups meet regularly.

All classroom teaching is permeated by a spirit of reverent searching for knowledge and truth. All teachers are Christian men and women.

Social Life: McPherson College aims to train young people for membership and leadership in a Christian social order and to create in them a sense of their social obligations and responsibilities. The social program seeks to stimulate students through study and direct experience to gain for themselves a pattern of values which will give meaning and direction to life.

The new Student Union Building houses excellent social facilities including the college bookstore, dining rooms, lounges, recreation areas, and student offices. There are lounges in the residence halls in which students meet their friends during leisure hours. Informal gatherings are sometimes held in the homes of faculty members and the president.

Many informal parties and some formal activities are planned in order that students may feel culturally at ease in all types of social life. Skating parties, trips to nearby cities, and outings are regularly arranged. The social life is under the general administration of the Social Committee composed of faculty members and students.

Student Regulations . . .

McPherson College seeks to uphold high ideals of Christian conduct and growth in every phase of the student's life. It is requested that students who apply for admission indicate a desire to fit into and profit from such an environment.

Each student is encouraged to develop positive and wholesome patterns of study, work, worship, recreation, and the use of leisure time. It is anticipated that increasingly each will be able to manage his own disciplines and that consideration for the other person's rights, regard for the common respectabilities and courtesies of adult behavior, and a desire to deepen and enrich his own life will become central in his pattern of conduct. In order to help in these directions, the College, since its inception, has ruled that alcoholic beverages, gambling, and smoking shall not be a part of its campus conduct.

McPherson students participate in self-government. They have their own elected student officers and govern themselves according to their own constitution. These officers and their functions are explained fully in the student handbook, *The Grail*. The students also have their own elected Student Court. The Court handles matters of adjustment or discipline which work against the welfare of any individual student, or of the total college group.

The student is encouraged to participate fully in the religious activities of the campus and to attend regularly the church and church school of his choice. The total college gathers for Convocation once a week. Voluntary worship is available to students once a week.

The Dean of Student Affairs has general supervision of student welfare; the Dean of Men works closely with the men students in their problems and interest; the Dean of Women performs a similar service for the women students. A special faculty counselor is assigned to each student to help him with academic and other problems.

Students who find it persistently impossible to fit into the atmosphere of the college may be asked by the Administration or the Student Court, following approval of the Administration, to withdraw. All parents are urged to keep in close contact with their sons and daughters and with the college administration in order that the good advancement and growth of the student may be fostered.

Students who represent the College in public appearances or programs must be cleared through the departments of their specialty: athletics, music, public speaking, and so on. Their department scheduling should be through the department of public relations or other appropriate college agency.

Students should inform their correspondents that all mail addressed to the College should be plainly marked "McPherson College" giving also the name of the residence hall. This is important since there are two colleges in McPherson.

Visitors are always welcome at McPherson College. If housing is desired, guests should report ahead of time to the residence hall mother or to the college administration in order that housing may be arranged.

Extracurricular Activities

Extracurricular Activities are organized and arranged to provide helpful experiences and opportunities for personal development on the part of students. These undertake to contribute to the general educational purposes of the College. The Personnel and Counseling Committee of the faculty is the general supervising agency. In addition, each student organization has a faculty sponsor who attends meetings, aids in planning the year's program, budgeting funds, and keeping accurate accounts and records. The books of all secretaries and treasurers are filed in the business office during the summer. All students are urged to participate in some extracurricular activity in order to broaden their college experiences and to enrich their personalities.

The Spectator—The campus newspaper published weekly by the students gives opportunities for practical experience in journalism. Students hold the editorial and staff positions of editor-in-chief, managing editor, campus editor, and business manager. The editors serve one semester in each of the three editorial positions. A new campus editor is selected each semester. Other positions such as sports editor, society editor, and reporters are open to any student. The business managers get experience in advertising and business.

The Quadrangle—The student yearbook is also prepared as an extracurricular activity. The editor and the associate editor head the editorial staff. A new associate editor is selected each year. A business manager and assistant help prepare the yearbook. All of these get practical experience in journalism and business.

The Student Council—The Council is the governing agent of the student body. It is comprised as follows: a president, elected by the student body from the senior class of the following year; a treasurer, elected by the student body from the junior class of the following year; two representatives from each of the four classes, elected by the members of the class to be represented; eight representatives elected at large by the student body; the Dean of Academic Affairs, the Dean of Women, the Dean of Men, and the Dean of Student Affairs.

The Council issues three publications: *The Guide*, a student handbook for distribution at the opening of the school year; the *Spectator*, a campus newspaper; and the *Quadrangle*, a student yearbook.

The Student Council distributes the funds allotted to the Council by the College for the various student organizations and cooperates with the Committee on Students of the faculty on matters of concern relative to student welfare.

Students living in the residence halls have their own *residence hall council*, which administer college and residence hall regulations with the advice and assistance of the housemothers, head residents, and deans of women and men.

The Student Court: The Court functions as the guidance and disciplinary agency of the student body. It interprets the student body constitution and has the authority to render and enforce disciplines, even to the extent of recommending suspension from college. The Court is composed of thirteen members: five seniors, four juniors, three sophomores, and one faculty representative. A chairman and a secretary-treasurer are elected by the Court from its membership.

Men's and Women's Councils: These are under the sponsorships of the Dean of Men and the Dean of Women, and are composed of selected groups of representative students. The councils meet regularly to discuss and deal with general student welfare.

The A Cappella Choir: This choral group socializes in the singing of unaccompanied choral literature. Members are chosen on the basis of maturity of voice and choral experience. Membership is limited. The choir makes appearances at college assembly or chapel services, at the college church, and at various McPherson College area and regional meetings. It presents a public concert in the early spring. Occasionally it tours among high schools and churches.

The College Orchestra: This orchestra is open to all qualified instrumentalists upon application to the director. Orchestra concerts are presented several times throughout each school year.

The College Band: This group of students and faculty members presents varied programs and concerts during the year; a section of the band called the *Pep Band* performs at the athletic events.

Small Instrumental and Vocal Ensembles: These vary from year to year. They are open to qualified and capable students.

Athletics: McPherson College is a member of the Kansas College Athletic Conference, in which the following sports are recognized: football, baseball, cross country, basketball, track and field, tennis, and golf. The College offers physical education and athletic activities of a wide variety. Every student within the school is offered an opportunity for wholesome recreation and physical exercise under competent leadership.

The "M" Club: This is an organization of men who are awarded letters in any of the sports sponsored on the campus. It sponsors various events and meetings.

The McPherson College YM-YWCA seeks to attract and unite in fellowship persons of various faiths and those who affirm no faith. It seeks to help persons serve in the spirit of love, work for a just society and act for freedom and enrichment of human living. In an open search for life purpose, individuals are encouraged to confront the power and relevance of the Christian faith.

The Women's Athletic Association: The WAA is open to all women students who participate in extracurricular sports activities. Their program is broad in scope and aims to provide activities adapted to the needs and interests of all students. Demonstrations, social functions, and play days are included in the program. Official letters are awarded to girls for points earned in participation.

The Pep Club: The membership consists of students interested in promoting better organized cheering and fostering school spirit. The club assists the cheer leaders.

Intramural Sports: These are varied and all students are encouraged to participate. Their purpose is to create interest in sports and to afford all students opportunity for expression and for leadership experience in the area of athletics.

SPECIAL INTEREST EXTRACURRICULAR ACTIVITIES

- Agricultural Club
- Alpha Psi Omega (Dramatics)
- Chapel Choir
- Circle K Club
- C.B.Y.F. (Church of the Brethren Youth Fellowship)
- Forensics (Debate)
- German Club
- Home Economics Chapter
- International Relations Club
- Math Club
- M.C.Y. (McPherson College YM-YWCA)
- McPherson College Players
- M.E.N.C. (Music Educators National Conference)
- Model United Nations
- Pep Band
- Phi Alpha Theta (National Honorary History Society)
- Pi Kappa Delta (National Honor Forensic Society)
- Skate Club
- S.N.E.A. (Student National Education Association)
- Young Democrats
- Young Republicans



Special Events . . .

Church of the Brethren Area Youth Conferences. Senior high young people from the college church constituencies are invited to the campus for a weekend conference each spring.

High School Visitation. During the school year members of the student body and faculty visit the surrounding high schools to bring to their attention the opportunities of a college education and to consult with students concerning their educational plans.

Parents' Day. Each fall parents of the students are invited to the campus for the weekend for the purpose of visiting students and becoming better acquainted with faculty and better informed about the College.

Homecoming. Each fall a Homecoming celebration is sponsored by the Alumni Association and various student organizations of the College. Several activities, including class reunions, extracurricular group reunions, alumni teacher rallies, an evening program, an evening coffee hour for alumni, and others are planned for the weekend. A Homecoming queen and two attendants, selected by the students, reign over the festivities and are honored at the Queen's Ball in the evening.

The Booster Banquet. Cooperation of community and college was the primary motive for instituting the Booster Banquet in 1931. Each year several hundred of the leading citizens of the community have mingled in a fellowship banquet and program as a token of their interest and support of McPherson College.

Christian Emphasis Series. An outstanding religious speaker leads the entire student body and the college church in a series of daytime and evening public meetings and individual or smaller group conferences.

Open House. Every year each residence hall holds an open house. Parents, faculty, and friends are invited to visit the students in their residence hall homes.

Musical Program. Concerts and other musical productions are presented by vocal and instrumental groups and soloists throughout the school year.

Plays and Debats. During each school year the College Players present a wide variety of dramatic productions. McPherson College annually hosts at least one invitational debate tournament.

The McPherson Cultural Series. The College annually sponsors a series of musical, dramatic, and lecture attractions for the campus community and the general public. Outstanding programs of past years have included the Don Cowack Chorus, the San Antonio Symphony, the Norman Luboff Choir, and AP correspondent Eddy Gilmore.

All-School Events:

A formal faculty reception to the students is held early in the fall.

An all-school formal is usually held during the Christmas season and another during the spring months.

Several all-school parties, dances, skating parties, and play parties are sponsored by classes or organizations. Occasionally, all-school outings are held.

Special dinners are provided at various times during the school year by the Food Service for students and faculty members. The students have one night a week which is designed as "dress-up" night in the dining hall.

McPherson County "All Schools Day" festivities are participated in by the college. Some of the college organizations enter floats in the "All Schools Day" parade.

Community Service. McPherson College is eager to be of service to high schools, communities, and churches, either nearby or throughout the entire area. Faculty and students are prepared to assist in neighbors' institutes, parent-teacher meetings, lecture courses, entertainments, and religious services. A speakers bureau is maintained.

Adult Education. The College functions in something of the capacity of a community college by providing classes in adult education during certain evenings of the week.

Brotherly Colleges Abroad. The College cooperates with Bardonia College, Elizabethtown College, Juniata College, La Verne College, Manchester College, and Bethany Seminary in operating a winter year abroad program at Marburg, Germany, and Strasbourg, France, under the auspices of the Commission on Higher Education of the Church of the Brethren.

McPherson College students have the opportunity to join a year abroad program in Latin America, at the Universidad de los Andes in Bogota, Colombia, through the International Educational Services of the Council of Merionville Colleges.

Students interested in these programs should consult with the Dean of Academic Affairs or a language adviser early in the freshman year.

ACADEMIC REGULATIONS

Admission Requirements . . .

It is the desire of McPherson College to admit students of good character and purpose whose academic and personal achievement give promise of success in college. Each candidate is expected to be a graduate of an approved secondary school with a satisfactory scholastic record.

An application for admission must be filed with the Office of Admissions on an official form. On the application form the candidate indicates his housing preference. A thorough health examination by the applicant's physician must be summarized on a college medical form. Forms are secured from the Director of Admissions.

Candidates for admission are required to take the American College Testing program examinations. It is recommended that this test be taken by the candidate during the senior year of high school. Students from states not regularly administering the ACT exams will be expected to take the tests at McPherson during the opening days of school.

A non-refundable application fee of \$10.00 is to accompany the application for admission. All students who are accepted for admission are required to make an advance tuition deposit of \$50.00 which is due 20 days after notification of acceptance for admission. This deposit for educational expenses is non-refundable.

An official transcript of the student's high school record and recommendations as to his personal and social qualities are required. After data are gathered, each application for admission is given individual attention. The decision of the Admissions Committee is based on a careful examination of the candidate's file. On the basis of satisfactory credentials, including a seven-semester transcript of credits, a high school senior may be granted tentative admission contingent upon the satisfactory completion of requirements for graduation from the student's high school.

Advanced Standing. Candidates for admission from other colleges must present evidence of honorable dismissal and official transcripts from the colleges attended. A student seeking admission to advanced standing must present an application for admission to the Director of Admissions and should request each institution previously attended to send to the Director of Admissions a transcript of college work completed. In addition, the student himself should submit a letter of his own composing in which he gives his reasons in detail for wishing to transfer.

A student who has achieved upper-level standing may not transfer junior college credit to McPherson College for work taken beyond the sophomore year.

Credit will be given for the service training program conducted by the various branches of the armed forces as recommended by the American Council on Education in "A Guide to the Evaluation of Educational Experiences in the Armed Forces."

Students entering college with the R.N. degree in nursing will be credited with some work toward graduation at McPherson. This can total as much as one year's work toward a degree.

Re-admission: Students who have previously attended McPherson College and who have interrupted their McPherson College program for longer than the period of one summer recess must make application for re-admission. If re-admission is granted, an official letter of acceptance will be sent before the time of registration.

Registration: Official registration for courses and official withdrawal from courses takes place only when the student has provided all information required on the official forms of the Registrar's Office. A student must complete all admission procedures prior to registration. Registration for each semester must be completed on the days designated for that purpose in the calendar of the college. Failure to do so will result in a late registration fee of \$10.00.

Degree Requirements . . .

The degree, Bachelor of Science, is offered in biology, chemistry, mathematics, physics, home economics, industrial arts education, agriculture and rural life, music education, education and psychology, economics and business, history, physical education, and sociology. The degree Bachelor of Arts, is offered in English, applied course, philosophy and religion, economics and business, economics emphasis, foreign languages, history, sociology, biology, chemistry, mathematics, physics, and speech-theater.

The B.S. or A.B. degree will be conferred on a student who meets the residence, credit, grade-point, distribution, concentration, and English proficiency requirements, all of which are described below. Application for graduation must be made to the registrar by the end of the third week of the semester immediately preceding the date of graduation.

Residence: In order to qualify as a candidate for a college degree, a student must earn a minimum of 30 semester hours of credit at McPherson College with at least 20 of the last 30, or 40 of the last 60 hours completed in residence.

Exception is made for a student who, after earning 90 semester hours of credit (94 including physical education credit) at McPherson College, goes to a recognized professional school requiring at least 90 semester hours for admission, enters a professional curriculum requiring a minimum of three additional years for completion, and transfers back 30 semester hours of credit from acceptable courses. Likewise, a degree may be conferred on a student who takes 90 semester hours (94 including physical education credit) at McPherson College and who attends at least 2½ years in a nurses' training institution directly affiliated with a university and transfers back to McPherson College 30 semester hours of credit from acceptable courses.

Credit and Grade Point Requirement: The satisfactory completion of 124 semester hours as required for graduation. At least 30 semester hours in upper level courses taken in the junior-senior years are required. Upper level courses include all courses in the catalog numbered 100 or above.

In order to be graduated, a student must earn a grade-point average of 2.0. The grade-point average is calculated by dividing the number of grade points earned by the number of hours attempted. A course may be repeated on approval of the dean of academic affairs, with the last grade being used to determine grade-point average. Grade points are earned as follows:

- A. Four grade points for each hour of credit.
- B. Three grade points for each hour of credit.
- C. Two grade points for each hour of credit.
- D. One grade point for each hour of credit.
- E. No grade points.

Distribution Requirements. The distribution requirements for the Bachelor of Science degree and the Bachelor of Arts degree are as follows:

BACHELOR OF SCIENCE		BACHELOR OF ARTS	
<i>Humanities</i>			
<i>Hours</i>		<i>Hours</i>	
Art and/or music *a	3	Art and/or music *a	3
Literature *b	3	Literature *b	6
Philosophy and religion *c	6	Philosophy and religion *c	6
Philosophy or history of thought *d	3	Foreign language *d	(1)
		Philosophy or history of thought *c	3
<i>Social Sciences</i>			
<i>Hours</i>		<i>Hours</i>	
History	1	History	6
Sociology *f	2	Sociology *f	3
Economics *g	3	Economics *g	3
Electives in social science *h	3	Electives in social science *h	4
<i>Physical and Biological Science</i>			
<i>Hours</i>		<i>Hours</i>	
Biological and physical science	10	Biological and physical science	10
This requirement must include at least one course of not less than two hours in each of the two areas.			
Electives in science and/or mathematics *i	5		

Special Skills and Understanding

<i>Hours</i>		<i>Hours</i>	
Written Communications	6	Written Communications	6
Oral Communications	2	Oral Communications	2
Health & physical education *j	4	Health & physical education *j	4

*a Courses emphasizing teaching methodology cannot be used to meet this requirement.

*b Reference is to literature courses numbered from 21 to 146.

*c Three hours of this requirement must be met from Philosophy and Religion courses 24, 22, 106, 111, 116, or 123. The remaining three hours may be met from the above courses or Philosophy and Religion courses 24, 110, 141, 151, or 154.

*d Must be all in one language. The requirement may be waived by the Dean of Academic Affairs for those who can demonstrate reading or conversational ability.

*e Courses meeting this requirement are: Philosophy and Religion courses numbered 37, 39, 40, 114, 146, 157, 158, 159, and 160; Speech/Theatre course numbered 135; Sociology course numbered 115; Political Science course numbered 198.

*f Reference is to Sociology courses numbered 25, 30, and 64.

*g Reference is to Economics courses numbered 1, 3, 130, and 140.

*h Electives here may include additional hours in the areas indicated above and hours in general psychology and political science.

*i Mathematics courses numbered 1 or above may be used. Up to three hours of this requirement may be met by courses in the practical arts and applied sciences.

*j This must include two hours of activity courses from the Health, Physical Education and Recreation Department numbered 1-11, 13-24, 26, 63, and 110. The additional two hours may be from the above or from other courses in the department and from Nutrition or Family Health in the Home Economics Department or course 52 in the Biology Department.

Concentration Requirements:

1. The completion of a major of not less than 24 semester hours in biology, chemistry, economics and business administration, education and psychology, English, foreign languages, history, home economics, industrial arts, mathematics, music, physics, philosophy and religion, physical education, sociology, rural life, or speech-theatre is required. A minimum of 12 hours of this requirement must be met in the courses open to juniors and seniors only. At least 9 of the hours of the major must be completed at McPherson College.
2. Comprehensive, reviews, supporting courses, or seminars may be required of majors by any department. Arrangements for these shall be made by the head of each department.
3. A complete tentative program of courses for junior and senior years, incorporating the requirements stated above, must be worked out by the student and his major professor not later than the beginning of the student's junior year. If a student intends to teach, this program must be approved by the education counselor also.

Note. Requirements one and two are explained in more detail under the departmental requirements.

Proficiency Examination in English: All students are required to pass a proficiency examination which consists of the writing of an expository essay in correct manuscript form and the establishing of an acceptable score on a standardized objective test before applying for graduation or for matriculation in the teacher education program. This examination is given at the beginning of each semester and is required of all juniors and those seniors who have not already passed it or a similar test in another school. Students who fail the examination are required to complete the course requirements in "English Review."

General Academic Requirements, . . .

Student Load: The average student load is 16 hours a semester. All students are limited to 18 hours except by permission from the Registrar. No student may apply for enrollment in more than 18 semester hours unless he has earned a grade-point average of 3.25 or higher in the preceding semester.

Students are encouraged to carefully balance curricular, extra-curricular and manual work loads. Advisers will help at this point.

Change of Election of Courses will be initiated through the counselor. Such changes cannot be granted after Saturday noon of the second week of the semester. Upon written request and the presentation of valid reasons for exception being made, the Dean of Academic Affairs may approve changes after the two-week period. A late registration fee will be charged for each enrollment change later than the second week of the semester.

Withdrawal from Courses without registration of grade is possible until Saturday noon of the fifth week of the semester on the approval

of the Dean of Academic Affairs. Failure to secure permission to withdraw will result in a grade of "F" in the course. A student who fails to do satisfactory work in a course may be asked to withdraw. Permission to withdraw from courses will not be granted after Saturday noon of the eleventh week of the semester.

Students faced with induction pressures may qualify for credit totaling as many hours as the number of weeks attended in class by taking an examination over the work covered.

SCHOLARSHIP AND PROBATION RULES:

Students are placed on probation or dismissed from college on the basis of the following table. Once placed on probation a student of any classification will remain on probation until his cumulative index is brought up to the 2.0 level.

Classification		Placed on Probation		Dismissed
		New GPA	Cumulative GPA	Cumul. GPA
Freshman*	0-14	1.49	1.49	
Freshman**	15-29	1.74	1.74	
Sophomore*	30-44	1.74	1.74	
Sophomore**	45-59	1.74	1.99	
Junior	60-89	1.74	1.99	1.79
Senior	90-124	1.74	1.99	1.89

*First semester

**Second semester

Exceptions to these rules will be made only by special action of a committee consisting of the President, the Dean of Academic Affairs, the Dean of Student Affairs, and the Registrar. During the absence of any one or two of these persons, the President or the Dean of Academic Affairs may make temporary appointment of one or two of the Educational Policies Committee members to replace the absent person or persons.

A student who has been refused permission to re-enroll because of low scholarship may apply for re-admission after the equivalent of one academic year has passed. Favorable consideration of such an application will depend upon the presentation of evidence that the applying student is prepared to do an improved quality of academic work.

Classification of Students: In order to be classified as a member of any class except the freshman, and to be eligible for enrollment in courses open to members of that class, a student must meet the requirements listed below.

Classification	Hours/Total Degree	Gr. Point Average
Sophomore	30	
Junior	60	1.80
Senior	90	1.90

Grading: All grades are determined by the instructor in charge of the specific course.

Scale of Grading

- A—indicates high honor and is reserved for very distinguished work.
- B—indicates very good work of much more than average quality.
- C—indicates that the work has been of good average quality.
- D—indicates that the work has been the lowest in quality that will enable the student to pass the course.
- I—indicates work is incomplete. This mark will be given only when the instructor for the incomplete has been unavoidable as determined by the instructor and the dean of the college.
- F—indicates failure.
- WP—withdrawn passing, WF—withdrawn failing.

Note. An "I" may be changed to a grade by completing the incomplete work to the satisfaction of the teacher. The incomplete must be satisfied within a time limit set by the instructor and the Dean of Academic Affairs when the mark of "I" is assigned.

Honor Roll. To be eligible for the honor roll, students must have earned a grade-point average of 3.50 during the previous semester. Students obtaining a grade-point average from 3.25 to 3.49 will be placed on the honorable mention roll. Credit earned by examination will not be included. A list of these 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 Graduate. McPherson College gives consideration for excellence in scholarship during the college course by graduating students with the following honors:

Students who earn a minimum of forty percent of "A" grades and not more than ten percent of "C" grades are graduated *cum laude*.

All students who earn during their college course a minimum of sixty percent of "A" grades and not more than eight percent of "C" grades are graduated *magna cum laude*.

All students whose college records show a minimum of eighty percent of "A" grades and no grades below "B" will be graduated *summa cum laude*.

Independent Study Course. A student in his junior or senior year who has made an average grade of "B" or better in twelve or more semester hours of work during the previous semester may enroll for independent study in his major department for the ensuing semester. The problem or project on which the student is to work and the amount of credit to be received for the work must be approved by the student's major professor and by the Educational Policies Committee prior to the enrollment for the work. One to three semester hours credit may be earned during a given semester, but under no circumstances will independent work be approved that overlaps work that can be done in regular classes.

Problems or projects worked out in independent study must be written up in thesis form acceptable to the student's major professor and the Educational Policies Committee. At the discretion of this group, the student may also be required to take a written examination, as well as an oral comprehensive before a committee of faculty members headed by the major professor.

Problems Courses: A student in his junior or senior year may enroll for a special problems course of from one to three semester hours. The subject for the problem on which the student is to work and the amount of credit to be received must be approved by the instructor, the Head of the Department, and the Dean of Academic Affairs prior to enrollment.

Class Attendance: Regular class attendance is required of all students. A student who persists in being absent from class will be reported to the office of the Dean of Academic Affairs. A student consistently absent from class or from private lessons will be dropped from the class and, or from the College. Specific details on this can be secured from the instructor or from the office of the Dean of Academic Affairs.

The final grade of any student who has been absent from any class or laboratory for any reason may be lowered at the discretion of the instructor. Absences from classes in the period immediately preceding or the period immediately following a vacation shall be considered equivalent to two absences for each period missed. Exceptions to these rules may be made through joint agreement of the Dean of Academic Affairs and the instructor.

Few absences are necessary; necessary absences that can be anticipated should be cleared with the Dean of Academic Affairs and with the instructor before the absence occurs. When an absence is unavoidable, the student should explain to the instructor in charge each absence at the next meeting of the class he attends. Make-up work for absences is determined by the instructor of the class.

Convocation attendance: Attendance at all Convocations is expected of students and members of the faculty. These sessions are considered to be an integral part of the educational program and constitute gatherings of the educational community for inspiration, fellowship, and exchange of information. Convocation attendance is required. A student having more than one unexcused absence will be required to make up the work in a reading program. Failure to do so is sufficient cause for expulsion from College.

Chapel: Religious worship services are conducted once each week. Although attendance at these is voluntary, all are invited to attend. Worship is considered personal, but highly important.

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The final grade of any student who has been absent from any class or laboratory for any reason may be lowered at the discretion of the instructor. Absences from classes in the period immediately preceding or the period immediately following a vacation shall be considered equivalent to two absences for each period missed. Exceptions to these rules may be made through joint agreement of the Dean of Academic Affairs and the instructor.

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Chapel. Religious worship services are conducted once each week. Although attendance at these is voluntary, all are invited to attend. Worship is considered personal, but highly important.

Professional and Pre-Professional Curricula . . .

McPherson College with its emphasis on a genuinely liberal education concerns itself primarily with the broad understandings and perceptions which appear basically in all professions. This broad educational base, along with ample opportunities for specialization in a number of areas, makes it possible for the *McPherson* product to enter a number of vocations upon graduation, or after study in the pre-professional curriculum at *McPherson* to proceed to a professional program in one of the professional schools or universities.

A Careful Examination of the course offerings of the various departments of the College will reveal that the *McPherson* graduate is adequately prepared for the business and professional vocations normally associated with graduation from departments of Agriculture, Art, Biology, Chemistry, Economics and Business Administration, Education and Psychology, English, Foreign Languages, History, Home Economics, Industrial Arts Education, Journalism, Mathematics, Music, Philosophy and Religion, Physical Education, Physics, Sociology, and Speech-Theatre. A careful examination of departmental materials described in this catalog and a continuous contact with a faculty adviser will place the *McPherson* student in a good educational relationship with any one of vocations normally associated with the subject matters of the departments identified here.

Several Specific Pre-Professional programs are described in the paragraphs which follow. Although the suggested programs represent the best judgment of the college counselors in each case, it is recognized that adjustments need to be made in some cases because of special interest and needs. It is wise for the student and his counselor to plan the student's program in advance of enrollment in order that he may take the courses needed without conflict in schedule. Students wishing to enter pre-professional or professional courses, but who are undecided concerning the specific curriculum, should examine the following general curricular outlines for the first two years of college.

Choices of Specific Courses from this outline will depend on the objectives of the students. Choices always depend to some extent on the professional school to which the student wishes to transfer and also on the period of time the student wishes to spend at *McPherson* College. Consultation with an adviser on the campus is imperative if final decisions are to be good ones. If the student knows the professional school to which he might transfer, he should obtain a catalog from that school and have it with him at the time that he discusses his college enrolment with his adviser. Departmental counselors, the Dean of Academic Affairs, and the registrar are available to advise on the specific subjects to consider.

Suggested Program Outline
Bachelor of Science

FRESHMAN YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Written Communications	3	Written Communications	3
Science	3	Science	4-5
Bible* Philosophy or Religion	3	Bible* Philosophy or Religion	3
Mathematics or Electives	3	Oral Communication or Electives	2-3
Art, Music, or Electives	2-3	Mathematics or Electives	2-3
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Philosophy Electives	3	Literature	3
Sociology	3	Economics	3
History	3	Social Science Electives	3
Science, Mathematics, or Electives	3	Science, Mathematics, or Electives	3
Electives	2-3	Electives	2-3
Physical Education	1	Physical Education	1

Suggested Program Outline
Bachelor of Arts

FRESHMAN YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Written Communications	3	Written Communications	3
Language	3	Language	3
Science*	3	Science*	3
History or Electives	2-3	History or Electives	2-3
Oral Communications or Electives	2	Art, Music, or Electives	2-3
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Literature	3	Literature	3
Language	3	Language	3
Economics	3	Sociology	3
Philosophy and Religion	3	Philosophy and Religion	3
Electives	1-2	Electives	1-2
Physical Education	1	Physical Education	1

*Or other course required for graduation.

Pre-Engineering: Arrangements with Kansas State University, the University of Kansas, and the Wichita State University provide joint programs which enable the student to earn both the bachelor's degree at McPherson College and a Bachelor of Science degree in the field of engineering in the engineering schools of the universities identified.

Under this program, a student takes his first three years at McPherson College and completes at least 94 hours of credit including the

courses listed below. Wise choices of electives must be made in order that the distribution requirements listed elsewhere in this bulletin may be met. Provided satisfactory work is done, the student will be eligible to transfer to Kansas State University, the University of Kansas, or Wichita State University. Upon completion of 30 additional hours of satisfactory upper level work at one of the institutions, he will receive his bachelor's degree from McPherson College, and after satisfactory completion of the requirements of the school he enters, he will receive the Bachelor of Science degree in the field of engineering. Normally the time for the program is at least five years, but this depends somewhat on the particular field of engineering chosen.

Pre-Engineering Curriculum for the 3-2 Program

FRESHMAN YEAR

First Semester		Second Semester	
	Hours		Hours
Written Communications I	3	Written Communications II	3
Analytical Geom. & Calc. 51*	4	Anal. Geom. & Calc. 52	4
College Chemistry I	3	Inorganic Chemistry I	3
Engineering Drawing I	1	Humanities Elective*	3
Oral Communications I	1	Physical Education	1
Physical Education	1		
	16		16

SOPHOMORE YEAR

Anal. Geom. & Calc. 101	4	Differential Equations I 101	3
Physics 5	5	Physics 6	5
Literature	1	Social Science Elective†	3
Economics I	1	Humanities Elective	3
Physical Education	2	Physical Education	1
	16		16

JUNIOR YEAR

Mechanics 101	3	Science Electives	6
of Elec. & Magnetism 104	4	Religion	1
Religion	1	Social Science and/or	3
Biology	3	Humanities Electives	6
Sociology	3		
Math Elective	3		13
	17		

*Students who do not have strong backgrounds in Algebra and Trigonometry will be required to take Algebra and Trigonometry during the freshman college year even though this retards the math sequence an entire academic year and prevents the student from immediately earning mathematics credit that is acceptable as "engineering credit."

All students who plan to study in the field of engineering should follow the curriculum identified above rather closely and should, in addition, counsel with the pre-engineering adviser at McPherson College. The freshman year and the sophomore year courses are arranged

to conform to the various engineering curricula of the engineering departments in the universities. Substitutions are often made in the third year of the 3-2 program and counseling at this level is always important, for the junior year program must depend not only upon the specific field of engineering chosen by the student but also upon his major area of concentration at McPherson. The student should consult the curriculum of the specific field of engineering of the specific school to which he later plans to transfer.

Law. Most law schools now require four years of college training for admission. The general program of the pre-law student should be planned with this in mind. Students should choose an emphasis in economics and strong support from courses in history. The student should counsel with the head of the department of economics or history.

Library. Education for students planning to become librarians should be as well rounded and as extensive as possible. Four years of college, followed by at least one or two years of professional study at an accredited library school, is the surest foundation for library work. In the general college work, the student should plan his course to acquire a good background in the humanities, the sciences, the social sciences, and a working knowledge of a leading foreign language. Many library schools require at least two years of a foreign language for entrance. If one desires a special field of library work such as history, technology, art, or business, some specialization in the desired field is needed. Students planning to do school library work should become acquainted with certification requirements at the different levels of teaching.

Pre-Medical or Pre-Dental. The following outline of a four-year program should be given careful attention by the pre-medical or pre-dental student.

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
General Biology 1	4	Vertebrate Physiology 52	4
Chemistry I or II	4	Inorganic Chemistry 12	5
Written Communications	3	Written Communications	3
Oral Communications	3	Art or Music	3
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Vertebrate Structure and Evolution 50	5	Elementary French or German 2	5
Elementary French or German 1	5	History	3
Sociology	3	Elementary Economics 1	4
Microbiology 34	4	Algebra and Trigonometry	3

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Animal Development 100 or Cell Biology 163	4	Ecology 116 or Invertebrate Zoology 95, 105	4
General Physics 3	4	General Physics 4	4
Electives in Laboratory	3	Social Science Elective	3
Electives in Philosophy & Religion	3	Electives in Philosophy & Religion	3
Quantitative Analysis or Electives 3-3	3-3	Electives	3

SENIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Genetics 103	4	Invertebrate Zoology 105 or Ecology 116	4
Organic Chemistry 111	4	Seminar in Biology 107	1
Electives	8-9	Organic Chemistry 112	4
		Elective in Philosophy	3
		Electives	3-5

The above program leads to a major in the department of biology. If a major is desired in another department, the appropriate adjustments can be made. Slight modifications in the program may be necessary because of the choice of medical or dental schools to which the student seeks admittance.

The pre-medical student approaching the senior year of the pre-medical program should maintain close contact with the head of the Biology Department in order that he may be informed concerning dates of medical school applicants and dates for medical aptitude tests.

PRE-MEDICAL TECHNOLOGY PROGRAM

Pre-Medical Technology. A program is offered whereby a student may attend McPherson College for three years and enter an accredited Medical Technology training program for his fourth year. After successful completion of the training program and upon passing the national board examination in Medical Technology, the student will be certified as an MT(ASCP) and will be granted a Bachelor of Science degree by McPherson College.

During the three college years, all distribution requirements for a B.S. degree must be met, a program fulfilling the departmental requirements for a major must be completed and all of the entrance requirements for a Medical Technology school must be satisfied.

The following program must be followed closely during the first three years. If a student chooses to major in Biology, the courses marked with a B must be taken and those marked C do not need to be taken. The reverse applies for a student who chooses to major in Chemistry.

FRESHMAN YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Written Communications I	3	Written Communications II	3
General Biology I	4	Vertebrate Physiology 52	3
Chemistry I or II	4	Inorganic Chemistry and Qualitative Analysis 12	5
Oral Communications	3	Electives in History	3
Physical Education	1	Physical Education	1

SOPHOMORE YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Algebra and Trigonometry I	3	B Introductory Organic Chemistry 54 or	4
Quantitative Analysis 55	4	C Quantitative Analysis 56	4
B Vertebrate Structure and Evolution 50 or Electives	3-5	B Invertebrate Zoology 50	3-4
Electives in Art or Music	3	Electives	3-4
		Elementary Economics I	3
		Electives in Humanities	3
		Electives in Sociology	3

JUNIOR YEAR

<i>First Semester</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Hours</i>
Microbiology 34	4	C Organic Chemistry 112 (or	4
B Genetics (B3 or C Organic Chemistry 111)	4	B Ecology 116	4
General Physics 3	4	General Physics 4	4
Electives in Philosophy & Religion	3	Electives in Philosophy & Religion	6
		Electives in Social Science	3
		B Seminar in Biology 107	1

After completion of an acceptable three-year program at McPherson College, the student may enter Grace Hospital School of Medical

Technology, Hutchinson, Kansas, or Wesley Hospital School of Medical Technology, Wichita, Kansas, schools with which McPherson College is affiliated. Permission may be given to a student to enter a school of medical technology with which McPherson College has no formal affiliation.

Pre-Nursing. The importance of collegiate academic training for nurses is becoming increasingly evident. It is now required of most nurses who enter instructional or supervisory work. An excellent nursing education awaits the young woman who plans her nursing education program to include work in the general curriculum of the liberal arts college as well as in the accredited school of nursing.

Any student interested in the pre-nursing program at McPherson College should plan her course of study with the help of the adviser of student nurses at McPherson and the director of nursing at the hospital selected. A carefully organized two-year schedule of courses at McPherson College will prepare the pre-nursing student to transfer to the standard nursing program in a professional school which will lead to the attainment of both a R.N. and a B.S. in Nursing Education after two years of study.

Pre-Veterinary Medicine. The pre-veterinary curriculum includes a nucleus of basic courses designed to meet the requirements for admittance to a curriculum of Veterinary Medicine. The curriculum may be modified somewhat to meet requirements of the specific Veterinary Medicine school to which the student intends to transfer upon completion of the pre-veterinary curriculum.

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Written Communications 1	1	Written Communications 2	1
Chemistry 1 or 2	1	Inorganic Chemistry 12	3
General Biology 1	1	Animal Husbandry 22	1
Dairy Husbandry 22	3	Algebra and Trigonometry 7	5
Social Science Elective	1	Physical Education Electives	2
Physical Education Elective	1		

SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
General Physics 1	1	General Physics 4	4
Animal Development (200)	1	Introductory Organic Chem 31	4
Microbiology 41	1	Oral Communications	5
Poultry Husbandry 41	3	Humanities Electives	3
Humanities Electives	1	Social Science Electives	3
		Physical Education Elective	1

Although most Veterinary Medicine schools still admit candidates who have successfully completed the pre-veterinary curriculum and can meet the other requirements set forth by the various institutions, it is becoming increasingly more common for students to complete the B.S. degree before applying for admittance to the professional curriculum of Veterinary Medicine. Those interested in Veterinary Medi-

care as a career are urged to consider the benefits of completing the BS degree before entering Veterinary Medicine.

Social Work: Opportunities to do social work are becoming increasingly attractive. A general curriculum with considerable emphasis on sociology courses will give the preliminary training needed for the final two years of concentration in the Sociology Department and for additional specific training in social work after graduation from McPherson College.

Pre-Theological: A student who plans to enter a theological school or graduate school of religion should plan his college studies in such a way as to gain a broad background of knowledge in both the humanities and the social sciences. A student who chooses to major in philosophy and religion should plan a strong program of electives in supporting areas such as history, literature, English, sociology, and foreign languages. A student who chooses to major in some other area should at the same time plan a strong program of electives in philosophy and religion. The American Association of Theological Schools makes the following specific recommendations concerning the minimum number of one-semester courses which should be taken in various fields:

- Religion (Bible, comparative religions, introduction to theology) at least three semesters.
- Philosophy (orientation in history, content and method) at least three semesters.
- History (ancient, modern European, American) at least three semesters.
- English (literature, composition, speech and related studies) at least six semesters.
- Natural sciences (preferably physics, chemistry and biology) at least two semesters.
- Social sciences (psychology, sociology, economics, political science, education) at least six semesters.
- Foreign languages (German, French, Latin, Greek, or Hebrew) at least four semesters.

Many theological schools and graduate schools of religion prefer that an entering student have a stronger concentration in religion at the college level than the minimum of three one-semester courses suggested above. The student and his faculty adviser should consult the catalog of the school the student plans to attend. A pre-theological student majoring in some area other than philosophy and religion should consult with a faculty member in the department of philosophy and religion as well as with his own major professor.

Christian Education: There is a growing demand for Directors of Christian Education in churches and for workers in related areas. The curriculum for this program, which emphasizes religion and liberal arts, also includes courses in recreation, arts and crafts, music, education, and psychology. The program is designed for placement of the graduate in local churches or for pre-theological education leading to seminary graduate study.

Teacher Education—Preparation of teachers is one of the major functions of the College. Prospective teachers are referred to the section of the catalogue describing the offerings of the Department of Education and Psychology.

Evening School . . .

McPherson College presents an on-campus evening school program to its public. This program has proved to be of benefit not only to local people, but to a constituency in a rather large area surrounding McPherson.

A limited number of regular course offerings carrying full college-residence credit are presented on Monday, Tuesday, and Thursday evenings during the two semesters of the regular academic year. The courses presented normally parallel the offerings available in the day college and are taught by fully qualified McPherson College faculty members who teach regularly in the day college. The use of the evening school program has made it possible for many adults to complete their college education by undertaking limited evening school programs at the same time that they carry on their regular daytime employment activities.

Summer School . . .

McPherson College presents a daytime summer program to its public during the months of June, July and part of August. Up to 12 hours of credit may be earned during the summer sessions. Special workshops supplement the regular college courses. Visiting instructors are used to supplement the regular McPherson College faculty. The campus has proved to be a pleasant place for summer educational activities with most of the work being done in air-conditioned facilities.

The summer sessions are designed to aid the high school graduate who wants to accelerate his college program or who is interested in proving his ability to do college work. The regular college student may use the summer sessions to remove academic deficiencies, to enrich his curriculum, or to accelerate his program. Many teachers of the area use the summer session to renew certificates or the profit from special workshops by visiting authorities.

Contact the Director of Summer Sessions for additional information.



AREAS AND COURSES OF STUDY . . .

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

- (a) Courses numbered 1-99 inclusive are designed for freshmen and sophomores.
- (b) Courses open to juniors and seniors are numbered 100-200 inclusive.
- (c) Hyphenated numbers indicate continuous courses.

The following departments of study should be considered as conveniences of organization rather than marking off compartments of education. In harmony with the purpose and aims of the College, it is the objective of any mechanical arrangement of course study or curriculum to effect an integration rather than segmentation of the training of the student.

The schedule of courses issued by the Registrar of the College before each semester takes precedence over the catalog.

HUMANITIES AREAS

ART

1. ART APPRECIATION

An introduction to the major forms and purposes of art. A suggested prerequisite to all art courses. Fall 10-30 T,Th. Per semester 2 Hours

2-3. GENERAL DRAWING AND PAINTING

The fundamentals of art in theory and practice using media of pencil, pen and ink, and water color. Each semester 1-30-3-30 T,Th.

Per semester 2 Hours

4-5. SECOND YEAR DRAWING AND PAINTING

A course providing additional experience in drawing and painting. Prerequisite: Art 2 and 3. Each semester 1-30-3-30 T,Th.

Per semester 2 Hours

8-9. HISTORY OF ART

A course devoting the first semester to a study of art from cave paintings through the art of the Middle Ages; a second semester study of art from the Renaissance period to modern time. The year 12 noon T,Th.

Per semester 2 Hours

25. ART EDUCATION

A study of materials, methods, and techniques used in elementary art education with emphasis upon the child's needs and development. Fall 10-30 M,W,F.

3 Hours

32. INTRODUCTION TO SCULPTURE

The fundamental study of sculpture and bas-relief using wood, plaster, sculpture metal, and clay. Evening.

2 Hours

51-52. INTRODUCTION TO CERAMICS

An introductory applied study of the making, decorating, and firing of pottery and other clay forms. The year. Evening.

Per semester 2 Hours

57. INTRODUCTION TO OIL PAINTING

The fundamental study of oil painting. Prerequisite: Art 2 or 3. Spring 1-30-1-30 T,Th.

2 Hours

151. ADVANCED CERAMICS

Continued work at the wheel, glaze and kiln theory, introducing mosaic work. Prerequisite: Art 51 and 52. Spring. Evening.*

2 Hours

152. ADVANCED SCULPTURE

Continued work with ceramic sculpture and wood carving. Prerequisite: Art 32. By appointment.

2 Hours

157. ADVANCED PAINTING

Continued study of oil painting. Prerequisite: Art 57. By appointment.

2 Hours

190. SPECIAL ART PROJECTS

Advanced work in specialized areas of art. Prerequisite: consent of instructor. By appointment.

1-3 Hours

ENGLISH

Requirements for an English major: a minimum of twenty-four semester hours in composition and literature, including courses 21, 22, 101, 102, 104, 113 or 116, 112. Courses 1, 2, 3, 4, 5, 106, or 133 will not be counted as meeting requirements for a major.

Related courses required to support a major: a minimum of fifteen semester hours in speech, foreign languages, or journalism with at least six hours in speech. English-education majors are also required to take 133 as a supporting course.

Composition

1-2 WRITTEN COMMUNICATIONS

The fundamentals of composition and their practical application in classroom experiences. The year. Numerous sections. Per semester 3 Hours

1-4 ANALYTICAL READING AND WRITING

A course with study directed toward the reading of some of the more significant works in poetry, fiction, drama, and exposition with the writing of scholarly theses about these works, critically examining and evaluating them. Open only to those freshman students who qualify through testing to do work at a more academic level than that which is required in the courses in Written Communications. Students may not receive credit in both Written Communications and Analytical Reading and Writing. 11-30 MWF.

Per semester 3 Hours

7 ENGLISH FOR FOREIGN STUDENTS

The fundamentals of written communications for the foreign student. By appointment. 2 Hours

101 HISTORY OF THE ENGLISH LANGUAGE

The historical development of the English language from early Indo-European beginnings to the present. Fall. 9-30 MWF. 3 Hours

102 CREATIVE WRITING

Advanced work in composition, giving opportunity for the study and writing of principal literary forms with stress on forms in which the student has a particular interest. Spring. 8-30 MWF, alternate years, offered 1968-69. 3 Hours

104 ENGLISH GRAMMAR

A systematic study of grammar, including an explanation of current usages and idioms. Spring. 3-00 TTh, alternate years, offered 1967-68. 2 Hours

105 ENGLISH REVIEW

A course in the fundamentals of English usage, designed to remedy deficiencies in English of juniors and seniors. The year. Numerous Sections. No Credit

106 READING IMPROVEMENT

A program designed to aid the student who is having problems in college because of his ineffective reading habits. Practice in adult reading skills is given as well as work in improving study habits and skills. The year. 12-00 TTh. No Credit

Literature

16. CHILDREN'S LITERATURE

Traditional and modern literature for children from kindergarten to high school. Spring (1:30 T,Th.). 3 Hours

21-22. INTRODUCTION TO LITERATURE

An introductory course designed to develop a sense of values and appreciation for the best in literature through a study of representative writers of the western civilization. Not open to freshmen. The year (7:30 M,W,F-9:30 M,W,F). Per semester 3 Hours

106. THE VICTORIAN ERA

The major developments of English literature from 1835 to the close of the century. Spring (9:30 M,W,F), alternate years, offered 1968-69. 3 Hours

108. THE ROMANTIC MOVEMENT

The prose and poetry of the English romanticists, including Wordsworth, Coleridge, Byron, Shelley, and Keats. Spring (9:30 M,W,F), alternate years, offered 1967-68. 3 Hours

112. RENAISSANCE LITERATURE

A study of the literature of the Renaissance, beginning with the writings of Boccaccio and continuing through the writings of Milton. Spring (10:30 T,Th.), alternate years, offered 1967-68. 3 Hours

115. THE AMERICAN ROMANTIC POETS

A study of the Romantic poets in America with special attention given to the works of Bryant, Poe, Longfellow, Lowell, Holmes, Whitman, and Lanier. Spring (12:00 T,Th.), alternate years, offered 1967-68. 3 Hours

116. AMERICAN TRANSCENDENTALISM

A study of Transcendentalism as it flourished in America with attention given to the philosophical and religious influences it has had on life in America. Spring (12:00 T,Th.), alternate years, offered 1968-69. 3 Hours

123. THE DEVELOPMENT OF THE DRAMA

The development of the drama from its origin to the twentieth century. Fall (8:30 M,W,F). 3 Hours

124. THE NOVEL IN THE TWENTIETH CENTURY

A study of several representative twentieth century novels as a statement of man's effort to understand individual human nature, social institutions, and problems of personal adjustment. Spring (4:30 Th. eve.). 3 Hours

125. MODERN AMERICAN DRAMA

A study of modern American drama, with consideration given to the political, economic, social, and religious elements that are present in the current scene. Fall (12:00 T,Th.). 3 Hours

133. LANGUAGE ARTS METHODS

(See Education and Psychology.)

142. SHAKESPEARE

The life and times of Shakespeare with a study of selected plays. Fall (4:30 Th. eve.). 3 Hours

200. INDEPENDENT STUDY IN ENGLISH

See regulations governing independent study. 1-3 Hours

SPEECH AND THEATRE

Requirements for a Speech-Theatre major: a major is offered in the area of Speech and Theatre and requires a minimum of twenty-four semester hours. At least six hours should be in public speaking, discussion, and/or debate and six hours should be in drama and/or literary interpretation. Course 1, Oral Communications, is a prerequisite to all other courses in the speech and theatre area.

An education major should plan to include: 1, 11, 33, 51, 109, 135, and 141. Liberal arts majors should include: 1, 11, 33, 51, and 135.

Related courses required to support a major: a minimum of fifteen semester hours in English, foreign languages, or journalism, with at least six hours in English. Speech-education majors are also required to take English

133 as a supporting course.

NOTE. Students with outstanding backgrounds in speech may petition the Director of Speech Studies for the privilege of being tested in oral communications. Students passing the test may proceed directly into Public Speaking 33.

1. ORAL COMMUNICATIONS

The study and application of good habits of speech and critical listening, with opportunity to gain skill through guided practice. Fall and Spring (numerous sections). 3 Hours

11. ARGUMENTATION AND DEBATE

The principles of argumentation with practice in application by written briefs and oral argumentation. Fall (2:30 M.F.W.), alternate years, offered 1968-69. 3 Hours

20. PRACTICAL DEBATE

Participation by undergraduates in intercollegiate debate. By appointment. 2 Hours

33. PUBLIC SPEAKING

Emphasis is placed upon the preparation and delivery of various types of speeches with personal help given to each person. Fall (10:30 T.Th.), Spring, alternate years, offered 1968-69 (10:30 T.Th.). 2 Hours

34. GROUP PARTICIPATION AND LEADERSHIP

A study of the functioning of groups with practice in group participation and leadership. Fall (9:30 M.W.Th.). 3 Hours

48-148. STAGECRAFT

A technical theatre course dealing with problems in set design and construction, color coordination, lighting, and general stage maintenance. Spring (2:30 M.W.F.). 3 Hours

51. PLAY PRODUCTION FOR TEACHERS

The methods of play production with emphasis on stage direction, technical skills, and business management. Fall (11:30 M.H.Th.). 3 Hours

109. ORAL INTERPRETATION

The study and application of the principles of speech in the interpretation of drama and literature. Fall (12:00 T.Th.). 2 Hours

120. ADVANCED DEBATE

Participation by upperclassmen in intercollegiate debate. By appointment. 2 Hours

123. THE DEVELOPMENT OF THE DRAMA

See Literature.

125. MODERN AMERICAN DRAMA

See Literature.

131. ADVANCED PUBLIC SPEAKING

A study of persuasion and speech composition with application in the speech situation. Spring (10:30 T-Th.), alternate years, offered 1967-68. 2 Hours

132. INTRODUCTION TO RADIO AND TELEVISION

A study of the history, development, methods, and techniques in radio and television broadcasting. Spring (1:30 M-W-F), alternate years, offered 1967-68. 1 Hour

133. LANGUAGE ARTS METHODS

See Education and Psychology.

135. LANGUAGE AND THOUGHT

A study of contemporary philosophies of language including General Semantics and other systems. Language habits as they relate to discovering meaning through communications will be studied. Introduction to Philosophy is suggested background, but it is not required. Spring (3:00 T-Th.), alternate years, offered 1968-69. 3 Hours

141. SPEECH DEFECTS

A study of speech defects and the ways in which teachers or parents may help speech-handicapped children. Two class sessions with laboratory, by appointment. Spring (1:30 T-Th.), alternate years, offered 1967-68. 3 Hours

142. SHAKESPEARE

See Literature.

151. ADVANCED PLAY PRODUCTION

Special problems in play production, with each student receiving directing experience in both proscenium and arena staging. Two recitations with laboratory by appointment. Prerequisite: Speech 51. Spring (11:25 W-F). 3 Hours

172. WORKSHOP ON SPEECH IMPROVEMENT

See Education and Psychology. 3 Hour

201. INDEPENDENT STUDY IN SPEECH AND DRAMA

See regulations governing independent study. (1-3 Hours)

Journalism

1-2. REPORTING PRACTICE

Practical experience in gathering and writing campus news by reporting for the school paper each week. By appointment. Per semester 1 Hour

4. REPORTING

Fundamental principles of gathering and writing news, practice in reporting on the campus. Fall (1:30 T-Th.), alternate years, offered 1967-68. 3 Hours

6. EDITING

Copyediting, headline writing, proofreading, and make-up. Fall, 10-30
M-W, alternate years, offered 1966-69. 3 Hours

7-B. EDITORIAL PRACTICE

Practical editorial experiences for the managing editor and the editor-in-chief of the college newspaper. By appointment. Per semester. 1 Hour

FOREIGN LANGUAGES**Requirements for Majors**

German—A minimum of 26 semester hours including 33, 34, 35, 38, 137, 136, and 158.*

Spanish—A minimum of 26 semester hours including 83, 84, 85, 88, 105, 106, and 109.

*A minimum of at least 10 weeks intensive summer study in approved centers in the U.S. or abroad emphasizing language study and where the language studied is the medium of conversation is required of each major. During this period at least 3 hours of credit in the literature of the language and 1 hour of advanced composition must be completed. A satisfactory level of oral proficiency must be achieved; this will be tested on return to the Michigan campus. The 10 weeks summer study is minimum; it is preferable for a language major to plan his program so that he can spend his Junior Year Abroad in an approved program. The Berea and Colleges Abroad program is highly recommended. Informal learning outside the classroom assumes, in a foreign environment, special importance which reinforces the formal learning process of a foreign language. The practical use of a foreign language becomes a function of behavior in the foreign milieu.

Required supporting courses for each major: Linguists 31, 33E, and 3 hours of credit in "Background of Civilization." This may be taken in the History Department or as part of the intensive language study.

Students with previous language training are required to take the advanced placement examinations. A student may enter the language program at whatever level his preparation permits. The department has suggested course sequences for students entering with different levels of language preparation.

French**41, 42. ELEMENTARY FRENCH**

Acquisition of the four skills: hearing, speaking, reading, and writing. French cultural aspects are an integral part of all French courses. Five hours of class and six 1/2 hour laboratory sessions. Year. M-TWThF. 12-30 and 1-30. 5 Hours

43, 44. READING AND CONVERSATION IN FRENCH

Review of elementary French structure, readings, oral practice and conversation. Three hours of class and three 1/2 hour laboratory sessions. Prerequisite: French 42. Year. M-W-F. 10-30. 3 Hours

47, 48. FRENCH COMPOSITION

Composition of sentences, paragraphs, letters, notes, and essays. Prerequisite: French 42. Year. T-Th. 10-30. 2 Hours

145. SURVEY COURSE OF FRENCH LITERATURE

A course dealing with French literature from the Middle Ages to 1800 placed in its historical and cultural context. Prerequisite: French 31, Fall (T,Th., 7:30). 3 Hours

146. SURVEY COURSE OF FRENCH LITERATURE

French literature from 1800 to the present placed in its historical and cultural context. Prerequisite: French 44, Spring (T,Th., 7:30). 3 Hours

NOTE: French 43, 44, 47 and 48 are recommended for any student planning a Junior Year Abroad in France.

German

51, 52. ELEMENTARY GERMAN

Acquisition of the four skills: hearing, speaking, reading, and writing. German cultural aspects are an integral part of all German courses. Five hours of class and six ½ hour laboratory sessions. Year (M,T,W,Th,F., 12:30 and 1:30). 5 Hours

53, 54. READING AND CONVERSATION IN GERMAN

Review of elementary German structure, readings, oral practice and conversation. Three hours of class and three ½ hour laboratory sessions. Year, sation. Three hours of class and three ½ hour laboratory sessions. Prerequisite: German 52, Year (M,W,F. 10:30). 3 Hours

57, 58. GERMAN COMPOSITION

Composition of sentences, paragraphs, letters, stories, and essays. Prerequisite: German 52, Year (T,Th., 10:30). 2 Hours

155. SURVEY COURSE IN GERMAN LITERATURE

A course dealing with German literature from 1740 to 1900 placed in its historical and cultural context. Fall (T,Th., 7:30). 3 Hours

156. SURVEY COURSE OF GERMAN LITERATURE

German literature from 1900 to the present placed in its historical and cultural context. Prerequisite: German 54, Spring (T,Th., 7:30). 3 Hours

158. GERMAN SEMINAR

Topic is selected according to the interest of the students. Prerequisite: Junior Year Abroad or consent of Instructor. Offered 1967-68. By appointment. 3 Hours

134. STRUCTURE OF GERMAN

(See Linguistics 134.)

3 Hours

NOTE: German 53, 54, 57 and 58 are required for all German majors and recommended for any student planning a Junior Year Abroad in Germany.

Greek

91-92. INTRODUCTION TO HELLENISTIC GREEK

This is the type of Greek which was the common language of the lands around the eastern Mediterranean after the conquests of Alexander the Great and during the time of the Roman Empire. This course will cover basic grammar and will include vocabulary and reading exercises preparatory to reading the Greek New Testament. Not open to Freshman except by special consent of the instructor, alternate years. Offered 1968-69, Year (M,W,F., 1:30). Per semester 3-Hours

101-102. READINGS IN HELLENISTIC GREEK

Portions of the Greek New Testament will be read, progressing gradually from easier to more difficult material. Further grammatical information and vocabulary will be introduced. At the option of the class, selections from the Greek Old Testament or from other Christian and non-Christian Hellenistic Greek writings may also be read. Prerequisite: Greek '92, alternate year. Offered 1967-68. Year (M.W.F., 3:30). Per semester 3 Hours

Spanish

81-82. ELEMENTARY SPANISH

Acquisition of the four skills: hearing, speaking, reading, and writing. Latin American and Spanish cultural aspects are an integral part of all Spanish courses. Five hours of class and six 1/2 hour laboratory sessions. Year (M.T.W.Th. F., 12:30 and 1:30). 5 Hours

83-84. READING AND CONVERSATION IN SPANISH

Review of elementary Spanish structure, readings, oral practice and conversation. Three hours of class and three 1/2 hour laboratory sessions. Year (M.W.F., 10:30). 3 Hours

87-88. SPANISH COMPOSITION

Composition of sentences, paragraphs, letters, stories, and essays. Prerequisite: Spanish 82. Year (T.Th., 10:30). 2 Hours

105. SURVEY COURSE OF SPANISH LITERATURE

From *El Cid* through the Golden Age. Intensive reading of representative works placed in their historical and cultural context. Prerequisite: Spanish 84. Fall (T.Th., 7:30). 3 Hours

106. SURVEY COURSE OF SPANISH LITERATURE

Classicism through contemporary authors. Intensive reading of representative works placed in their historical and cultural context. Prerequisite: Spanish 84. Spring (T.Th., 7:30). 3 Hours

188. SPANISH SEMINAR

Topic is selected according to the interest of the students. Prerequisite: Junior Year Abroad or consent of the instructor. Offered 1968-69. By appointment. 3 Hours

134. STRUCTURE OF SPANISH

(See Linguistics 134.)

1 Hour

NOTE: Spanish 83, 84, 87 and 88 are required for all Spanish majors and recommended for any student planning a Junior Year Abroad in a Spanish speaking country.

Linguistics

The courses in Linguistics are designed to introduce students to methods of analysis and comparison of languages. Any educated man benefits from a better understanding of the structure and development of language. Students who expect to be scholars and teachers of anthropology, folklore, library science, literature, or philosophy will find a background in linguistics invaluable. Students planning to teach English *in* foreign languages will discover that more and more texts are based on a linguistic approach and will find a basic understanding of Linguistics a necessity.

31. LINGUISTICS

This course is an introduction to the scientific study of language. It deals with basic linguistic concepts: language, phonetics, phonemics, syntax, and morphology. Prerequisite: Interest in languages and some knowledge of a foreign language is recommended. Fall: M, W, F, 8-30. 3 Hours.

32. LINGUISTICS

Continuation of Linguistics 31: linguistic geography, dialects, writing and language, linguistic change, linguistics and related fields, and the use of linguistics. Partial analysis of a language unfamiliar to all students. Prerequisite: Linguistics 31. Spring: M, W, F, 8-30. 3 Hours.

134. STRUCTURE OF THE LANGUAGE

The systematic analysis of the phonology, morphology and syntax of French or German or Spanish from the standpoint of structure, historical and contrastive linguistics. Arranged by appointment with major instructor. Prerequisite: Linguistics 31 or consent of the instructor. German offered 1967-68. Spanish offered 1968-69. By appointment. 3 Hours.

139. METHODOLOGY OF FOREIGN LANGUAGE TEACHING

Methods of teaching the language based on a contrastive study of the structures of English and the foreign language. Extensive outside reading, report on textbooks, discussion of various teaching aids and media. Offered 1967-68. By appointment. 3 Hours.

MUSIC

Requirements for a major in Applied Music for the A.B. degree:

- 16 hours Major Applied area, including a full graduation recital
- 13 hours Music Theory
- 4 hours Piano for the non-piano major
- 6 hours Music History
- 2 hours Music Ensemble
- 3 hours Electives in music

44 hours total minimum

Requirements for a major in Music Education for the B.S. degree:

Voice-Choral Emphasis

- 14 hours Voice
- 10 hours Music Theory
- 4 hours Piano and the passing of the piano proficiency examination
- 6 hours Music History
- 4 hours Conducting
- 3 hours Public School Music Methods
- 4 hours Instrumental Methods
- 3 hours Applied Elective
- 3 hours Choral Techniques
- 1 hour Choral Arranging
- 2 hours Vocal Ensemble
- 1 hour Instrumental Ensemble

62 hours total minimum

Band-Orchestra via Freshman

- 14 hours Major Applied (freshman and sophomore)
- 10 hours Music Theory
- 4 hours Piano and the passing of the piano proficiency examination
- 6 hours Music History
- 4 hours Conducting
- 3 hours Public School Music Methods
- 8 hours Instrumental Methods
- 2 hours Applied Electives
- 2 hours Voice
- 1 hour Instrumentation
- 2 hours Instrumental Ensemble
- 1 hour Vocal Ensemble

62 hours total minimum

Keyboard-Band-Orchestra Emphasis

- 14 hours Piano and/or Organ
- 10 hours Music Theory
- 6 hours Music History
- 4 hours Conducting
- 3 hours Public School Music Methods
- 6 hours Instrumental Methods
- 8 hours Applied Second Instrument
- 2 hours Voice
- 2 hours Instrumental Ensemble
- 1 hour Vocal Ensemble
- 1 hour Instrumentation

62 hours total minimum

Keyboard-Voice-Choral Emphasis

- 14 hours Piano and/or Organ
- 10 hours Music Theory
- 6 hours Music History
- 4 hours Conducting
- 3 hours Public School Music Methods
- 4 hours Instrumental Methods
- 8 hours Voice
- 3 hours Choral Techniques
- 3 hours Vocal Ensemble
- 1 hour Instrumental Ensemble
- 1 hour Choral Arranging

62 hours total minimum

The 14 hour Major Applied requirement for the B.S. degree in Music Education may be modified by the Music Faculty in special cases.

A full graduation recital is required for the B.S. degree in Music Education. The courses in Counterpoint and Form is recommended as an elective.

General Music Requirements: Applied Music—All music majors should be enrolled in some area of applied music study during each semester at college.

Recitals—A series of recitals is given during the year, in which music students are required to participate, at the discretion of the teacher. All students in applied music are expected to attend student and faculty recitals.

Piano Proficiency Examination—Because the piano serves as a fundamental music instrument, all music majors are required to take at least one year of piano and to pass the piano proficiency test before graduation. This examination will be given three times a year, at the beginning of the fall and spring semesters and at the end of the spring semester. The faculty committee which will administer the examination will consist of the head of the music department, a member of the piano faculty, and at least one other music faculty member. The proficiency examination will consist of:

1. performance of a prepared piano solo
2. improvisation of an accompaniment to a given melody
3. performance of several common patriotic and community songs
4. major and minor scales
5. sight-reading of hymn, simple chorale, or chorale accompaniment

Applied Music

NOTE: In order to qualify for upper level credit in any applied music, the student must have studied at the college level for three semesters and display an advanced proficiency.

38, 49. CLASS PIANO

A beginning course in piano playing, designed especially for the non-music major. The year 10 W.M. Offered on demand. Per semester 1 Hour

51, 151. PIANO

One lesson weekly. By appointment. Per semester 2 Hours

52, 152. VOICE

One lesson weekly. By appointment. Prerequisite: Beginning Voice Class or consent of the instructor. Per semester 2 Hours

NOTE: Students should not enroll for voice unless they have a practical knowledge of the piano keyboard and of the basic rudiments of music, such as key signatures, staff letter names, and note values.

Voice students should have acquired, by the time of graduation, sufficient knowledge of the piano to enable them to play the simpler types of accompaniments.

53, 153. PIPE ORGAN

One lesson weekly. By appointment. Prerequisite: Adequate piano ability, determined by conference with the organ instructor. Per semester 2 Hours

54, 154. BRASS

One lesson weekly. By appointment. Per semester 2 Hours

NOTE: When enrolling indicate specific instrument.

55, 155. WOODWINDS

One lesson weekly. By appointment. Per semester 2 Hours

NOTE: When enrolling indicate specific instrument.

56, 156. **STRINGS**
 One lesson weekly. By appointment. Per semester 2 Hours
 NOTE: When enrolling indicate specific instrument.

57, 157. **PERCUSSION**
 One lesson weekly. By appointment. Per semester 2 Hours
 NOTE: When enrolling indicate specific instrument.

161. **PIANO METHODS AND MATERIALS**
 A review of both the established and new piano teaching materials, methods and techniques along with a survey of the standard piano literature. Prerequisite: two years of piano study. Spring. By appointment. 2 Hours

163. **ORGAN METHODS AND MATERIALS**
 A survey of organ teaching methods and techniques, with study devoted to organ literature of various types for church services and recital. Offered on demand. 1-2 Hours

History of Music

70. **MUSIC APPRECIATION**
 A non-technical course designed to establish a foundation in the enjoyment and appreciation of music through recordings and outside reading. Fall (2:30 M.W.F.) Spring (8:30 M.W.F.). 3 Hours

72. **MUSIC TO 1750**
 A course designed to acquaint the student with the evolution of musical style, commencing with early Christian monody and concluding with music of the Baroque era. Attention is given to social changes affecting the course of musical history. Prerequisite: consent of instructor. Fall (2:30 T.Th.), alternate years, offered 1968-69. 3 Hours

76. **CHURCH MUSIC**
 An introductory study of the theory and practice of the music of the church, with attention given to the practical problems of church music leadership. Fall and Spring (8:30 M.W.). Offered on demand. 2 Hours

173. **MUSIC FROM 1750**
 A course designed to acquaint the student with evolutionary trends in musical history from the Mannheim School to the most recent innovations in musical composition. Special attention is given to the patterns of social change affecting the course of musical history. Prerequisite: consent of instructor. Spring (2:30 T.Th.), alternate years, offered 1968-69. 3 Hours

176. **THEORY AND PRACTICE OF CHURCH MUSIC**
 A general survey of the history, theory, and practice of sacred music, with special consideration given to the practical aspects of church music leadership. Fall and Spring (8:30 M.W.). Offered on demand. 2 Hours

Music Education

74. **MUSIC IN THE ELEMENTARY SCHOOL**
 Emphasis is placed upon effective methods for teaching elementary school children. The philosophy and purposes of elementary school music are stressed. Students are given opportunities to review materials and to observe music classes in the elementary schools at each grade level. Prerequisite: the ability to read music. Fall (9:30 M.W.F.). 3 Hours

75. FUNDAMENTALS OF CONDUCTING

The study and practice of the fundamental techniques of conducting as applied to song leading, choral and instrumental directing. Fall (10-30 M.W.F.) alternate years, offered 1967-68. 3 Hours

76. INSTRUMENTAL METHODS: BRASS

An introductory study of the techniques of playing and teaching brass instruments at the public school level, with emphasis on a practical knowledge of materials, fingerings, tone production, and care of brass instruments. Spring (10-30 T.Th.), alternate years, offered 1967-68. 2 Hours

81. INSTRUMENTAL METHODS: WOODWINDS

An introductory study of the techniques of playing and teaching woodwind instruments at the public school level, with emphasis on a practical knowledge of materials, fingerings, tone production, and care of woodwind instruments. Spring (10-30 T.Th.), alternate years, offered 1968-69. 2 Hours

82. INSTRUMENTAL METHODS: STRINGS

An introductory study of the violin, viola, cello, and string bass with emphasis on the teaching of beginners in the public school. Fall (10-30 T.Th.) alternate years, offered 1968-69. 2 Hours

83. INSTRUMENTAL METHODS: PERCUSSION AND BAND

An introductory study of the techniques of playing and teaching the snare drum, bass drum, cymbals, timpani, and the percussion traps. Techniques and materials for marching and concert band will also be investigated. Fall (10-30 T.Th.), alternate years, offered 1967-68. 2 Hours

184. PUBLIC SCHOOL MUSIC METHODS

See Education and Psychology. 3 Hours

106. CHORAL TECHNIQUES AND REPERTOIRE

A study of the basic technical aspects of organizing and conducting choral groups, along with the review of repertoire suitable for school and church choirs. Prerequisite: Fundamentals of Conducting. By appointment. 3 Hours

189. PROBLEMS IN MUSIC

Advanced study of special topics in the field of music. Prerequisite: Consent of the instructor. By appointment. 1-3 Hours

Theory of Music

12-13. MUSIC THEORY

A course in the materials and elements of music, including scales, intervals, part writing, sight singing, ear training, and dictation. The year (10-30 M-F.) Per semester 5 Hours

14-15. MUSIC THEORY

Continued work in music theory including transitions, modulations, altered chords, advanced sight singing, ear training, and harmonic dictation. Prerequisite: Music Theory 13. The year (1-30 M.W.F.) Per semester 3 Hours

104. COUNTERPOINT AND FORM

A study of contrapuntal techniques in composition and analysis of the elements of structure, form, and design in music. Prerequisite: Music Theory 15. Spring (2-30 M.W.F.), alternate years, offered 1967-68. 3 Hours

119. CHORAL ARRANGING

The study and practice of the methods and techniques of arranging and scoring for vocal ensembles, glee club, or chorus, with reference to manuscript preparation and editing. Prerequisite: Music Theory 15. By appointment. 1-3 Hours.

120. INSTRUMENTATION

The study and practice of the methods and techniques of arranging and scoring for instrumental ensembles, band, and orchestra, with emphasis on the problems peculiar to public school music. Prerequisite: Music Theory 15. By appointment. Per semester 1-3 Hours.

Organizations and Ensembles

Musical Organizations and Ensembles. Ensemble credit may be secured in the following organizations: A Cappella Choir, Chapel Choir, Band, Orchestra, Small Instrumental and Vocal Ensembles. A student may participate in several of these organizations as long as practicable; however, he should not engage in more than four at a time. Whole credit will be given for each semester of ensemble activity, not more than total hours credit may be applied toward a degree.

All students who wish to participate in any of the above ensemble activities are requested to make formal application on the proper questionnaire during enrollment time in September. ALL NEW applicants should arrange to appear before the ensemble director for a Placement Test. FORMER members should verify in writing their desire to be re-considered for membership in the new organization(s). The questionnaires may be secured from the Registrar's Office or from the Music Department during enrollment week of the fall semester. They should be filled out carefully and turned in to the respective ensemble directors by the end of the first week of school.

91. A CAPPELLA CHOIR

The A Cappella Choir, as the name indicates, specializes in the singing of unaccompanied choral literature. It is a highly selective choral organization whose members are chosen on the basis of maturity of voice and choral experience. Students must be enrolled in at least 12 hours of school work to be eligible for membership in the A Cappella Choir. Members are expected to maintain their eligibility throughout both semesters of the school year. The year: 3-40 MWTh. Per year 1 Hour.

92. BAND

The College Band is open to all qualified instrumentalists upon application to the band director. All applicants are requested to fill out a questionnaire; new applicants should arrange with the director for a tryout during enrollment days. The year: 4-30 MWF. Per year 1 Hour.

94. CHAPEL CHOIR

The Chapel Choir is made up of the overflow of singers who cannot be used in the limited ranks of the A Cappella Choir, or who do not have time for the more ambitious schedule of choral activities. It is open to qualified singers upon application to the director. Occasionally, the Chapel Choir and A Cappella Choir join in the performance of major choral works and special musical productions. The year: 3-30 MW. Per year 1/2 Hour.

95. ORCHESTRA

The College-City Orchestra is open to all qualified instrumentalists upon application to the director. All applicants should fill out a questionnaire available during the enrollment days. NEW applicants should arrange with the director for a tryout at the time of enrollment. The year 7:00 p.m. M., F., S., T, Th. Per year 1 Hour

97. SMALL INSTRUMENTAL ENSEMBLES

String, brass, or woodwind ensembles organized by tryouts and according to interest and available talent. By appointment. Per year 1 Hour

98. SMALL VOCAL ENSEMBLES

The smaller college singing groups are organized on the basis of questionnaires, placement tests, and a series of tryouts. Several groups are selected each year, depending upon talent available. Per year 1 Hour

Because of the important deputation work which the small ensembles do, students who are regular members of these groups will be granted credit free of tuition charges upon recommendation of music faculty.

Each group will rehearse one period per day and will meet at least once a week with the instructor. By appointment.

PHILOSOPHY AND RELIGION

Requirements for a major: a minimum of twenty-four semester hours, including courses 21, 22, 37 or 40, 153 or 154, 157, 158. Courses 27, 28, 52, 91-92, 101-102, 152 cannot be counted in this twenty-four hour minimum. Other courses will be chosen by the student in consultation with a professor in the department.

21. OLD TESTAMENT LIFE AND LITERATURE

A study of Old Testament history, social life, religion, and literature. Emphasis is placed on a first-hand study of the Old Testament. Fall (10:30 M.W.F., 1:00 M.W.F.) 3 Hours

22. NEW TESTAMENT LIFE AND LITERATURE

A study of the founding and development of Christianity as reflected in the books of the New Testament. Emphasis is placed on the setting and major themes of each book. Spring (10:30 M.W.F., 1:30 M.W.F.) 3 Hours

24. BRETHREN HISTORY AND THOUGHT

A study of the origin and history of the Brethren together with a treatment of their beliefs and practices, and the major contemporary issues confronting them. Fall (3:00 T.Th.), alternate years, offered 1968-69. 3 Hours

27. CHRISTIAN EDUCATION OF CHILDREN

A course dealing with the philosophy and methods of working with children in the church. Spring (Evening), alternate years, offered 1967-68. 2 Hours

28. CHRISTIAN EDUCATION OF YOUTH AND ADULTS

A study of ways of communicating the Christian faith to youth and adults. This course includes all areas of the church's educational program for these age groups. Spring (Evening), alternate years, offered 1968-69. 2 Hours

37. INTRODUCTION TO PHILOSOPHY

A course designed to introduce the student to the nature of philosophical thinking. Some of the traditional problems in the history of thought will be considered and an effort will be made to view various *alternative methods* of solving these problems. Not open to freshmen unless enrolled in Analytical Reading and Writing 3. Fall (8:30 M-W-F). 3 Hours

39. ETHICS

A study of the major theories of the moral life in the Western philosophical tradition. An attempt will also be made to see the concrete implications of some of these theories by applying them to specific ethical problems in the contemporary world. Not open to freshmen unless enrolled in Analytical Reading and Writing 3. Fall (9:30 M-W-F). 3 Hours

40. LOGIC

A study of the principles and procedures of sound reasoning as developed in both traditional and contemporary thought. The basic emphasis in the course will be on the development of the ability to analyze the logical structure of arguments as a useful skill. Spring (8:30 M-W-F). 3 Hours

52. ORIENTATION FOR MINISTERIAL STUDENTS

A course designed to introduce the student to the nature, authority, and work of the Christian ministry. Fall (by appointment), alternate years, offered 1968-69. 1 Hour

91-92. INTRODUCTION TO HELLENISTIC GREEK

(See Foreign Languages.) Per semester 3 Hours

101-102. READINGS IN HELLENISTIC GREEK

(See Foreign Languages.) Per semester 3 Hours

106. PROPHETS OF THE OLD TESTAMENT

A study of the prophetic movement and literature of ancient Israel using the individual prophetic books of the Old Testament as primary sources. The course will include such topics as the religious presuppositions of the prophets, their religious experiences and psychological motivation, their social and political attitudes, and the meaning and enduring influence of their moral and religious teachings. Spring (7:30 T-Th.), alternate years, offered 1968-69. 3 Hours

111. LIFE AND TEACHINGS OF JESUS

A study of the life, teachings, and religious significance of Jesus as set forth in the four gospels. The course will also consider the historical setting, literary structure, and distinctive emphasis of each gospel as understood in the light of modern biblical scholarship. Varying from year to year one of the gospels or some other special topic may be selected for study in depth. Fall (7:30 T-Th.), alternate years, offered 1967-68. 3 Hours

116. LIFE AND THOUGHT OF PAUL

A study of the life of Paul and his interpretation of the Christian faith using his letters and the book of Acts as primary sources. The major themes of Paul's thought will be studied against the historical and religious background of early Christianity, Judaism and the Graeco-Roman world as seen in the light of modern biblical scholarship. Varying from year to year one or more of Paul's letters or some other special topic may be selected for study in depth. Fall (7:30 T-Th.), alternate years, offered 1968-69. 3 Hours

110. PHILOSOPHY OF RELIGION

A study of the major attempts in the Western philosophical tradition to understand the nature of religion together with an attempt to work out a theory adequate for today. The course will emphasize representative thinkers such as Plato, Augustine, Aquinas, Spinoza, Kant, Hegel and contemporary thinkers. Fall 10-30 MWF 3 Hours

123. PSALMS AND WISDOM LITERATURE

A study of ancient Israelite thought and religious faith using the Old Testament books of Psalms, Proverbs, Job, Ecclesiastes, and the Song of Solomon as primary sources. These books will be dealt with in the light of their setting in the cultural and religious life of ancient Israel and with a view to their enduring religious significance and value as literature. Spring 7-30 T-Th alternate years, offered 1967-68. 3 Hours

133. LANGUAGE AND THOUGHT

See Speech and Drama.

3 Hours

141. WORLD RELIGIONS

A critical survey of the major non-Western religions of the world such as Hinduism, Buddhism, Taoism, Confucianism, Zoroastrianism and Islam in an attempt to understand the distinctive character of each and their possible contributions to our own thought. Spring 9-30 MWF 3 Hours

144. PHILOSOPHY OF HISTORY

An attempt to develop a theory of historical knowledge, not in terms of the methods of research, but rather as a general inquiry into the kind of knowledge that one can have in the realm of history. In what sense is historical knowledge different from other types of knowledge? What kind of thinking is historical thinking? What are its aims and presuppositions? Can one think about the past by called knowledge at all? How are the different forms of past thought to be related? An attempt will be made to construct a historical method of reason for evaluating opposing points of view and seeking a unity between them. Spring 10-30 MWF alternate years, 1967-68. 3 Hours

146. PHILOSOPHY OF SCIENCE

An examination of the method of knowing used in the natural sciences and a consideration of a theory of nature in the light of recent scientific thought. Problems such as deduction and induction, the status of natural laws, order and freedom of nature, time, mind, and the role of mathematics, will be considered. Spring 10-30 MWF alternate years, 1968-69. 3 Hours

152. SEMINAR ON THE CHRISTIAN MINISTRY

A course designed for more specialized consideration of some of the practical tasks of the minister. Enrollment by permission of the instructor. Fall (by appointment) alternate years, offered 1967-68. 1 Hour

153. EARLY CHRISTIAN THOUGHT

A critical study of the major developments of Christian thought in the early and medieval periods with special emphasis on such topics as the controversies over the nature of Christ, the development of the classical creedal formulas, important heretical and sectarian viewpoints, and mysticism. This will be correlated with a historical survey of the rise of the major movements and institutions of early and medieval Christianity. Selected writings from important individual thinkers may be chosen for study in depth. Fall 1-30 T-Th alternate years, offered 1967-68. 3 Hours

154. MODERN CHRISTIAN THOUGHT

A critical study of Christian thought since the Reformation correlated with a brief historical survey of the rise of the most influential Protestant and modern Roman Catholic movements and institutions. Selected writings of representative figures will be studied in depth with special emphasis on men of the twentieth century. Spring 3:00 TTh. 3 Hours

155. GREEK AND MEDIEVAL PHILOSOPHY

A critical study of philosophical thought from the pre-Socratic philosophers to William of Occam. Special emphasis will be placed upon the works of Plato, Aristotle, Augustine, and Aquinas. Fall 2:30 M.W.F., alternate years, offered 1968-69. 3 Hours

156. EARLY MODERN PHILOSOPHY

A critical study of some of the leading figures in the Western philosophical tradition from the sixteenth to the early nineteenth centuries. The course will include the reading of selections from the works of Bacon, Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, and Hegel. Spring 2:30 M.W.F., alternate years, offered 1968-69. 3 Hours

159. NINETEENTH CENTURY PHILOSOPHY

A careful study of some of the major movements and figures in American and European philosophy during the nineteenth century such as idealism, utilitarianism, Marxism, Nietzsche, and pragmatism. The course will attempt to gain a critical understanding of their leading concepts. Fall 2:30 M.W.F., alternate years, offered 1967-68. 3 Hours

160. TWENTIETH CENTURY PHILOSOPHY

A careful study of some of the major movements in American and European philosophy during the twentieth century such as pragmatism, existentialism and language analysis, and figures such as Dewey, Whitehead, and Sartre. The course will attempt to gain a critical understanding of their leading concepts. Spring 2:30 M.W.F., alternate years, offered 1967-68. 3 Hours

166. SEMINAR ON RELIGION AND SCIENCE

Reading and discussion aimed at comparing and relating the concepts and methods of natural science with those of religion. Conducted by a group of faculty members representing both the department of philosophy and religion and the natural sciences area. Enrollment by permission of the instructor. Spring. Evening, alternate weeks. 1 Hour

190. PROBLEMS IN PHILOSOPHY OR RELIGION

Advanced study of special topics in philosophy or religion. Prerequisites: 12 hours in philosophy and religion, a cumulative grade-point average of 3.0 or above, and consent of the instructor. On demand. By appointment. 1-3 Hours

NATURAL SCIENCES AREA . . .

BIOLOGY

Requirements for a major: a minimum of twenty-four semester hours including either courses 1, 50, 52, 53 or 105, 116, 183 and 187; or courses 1, 60, 70 or 120, 112, 116, 183, and 187.

Related supporting courses required: Chemistry I or II, either Chemistry M or 111, and Physics 3 and 4.

NOTE: Biology 1 is a prerequisite for all other courses in the Biology Department. However, students with outstanding backgrounds in biology as verified by tests administered by the department will be allowed to proceed directly to more advanced courses without enrollment in Biology 1.

1. GENERAL BIOLOGY

An introduction to the major fields of study of which modern biology is composed. Strong emphasis is placed upon the principles which lead to an understanding of the world of life. Three class hours and two hours laboratory. Fall (7:30 M.W.F., 11:30 M.W.F.). 4 Hours

2. HUMAN BIOLOGY

An introductory study of human anatomy, physiology, reproduction, growth, development and heredity as well as consideration of human races and basic human ecology. Human physiology receives special emphasis. This course is not open to students who have taken or plan to take Biology 52. Three class hours and two hours laboratory. Spring (10:30 M.W.F.). 4 Hours

5. GENERAL BOTANY

The structure, physiology, development and evolution of plants. Representatives of each division of the plant kingdom are studied but emphasis is placed on the seed plants. A course designed for students not majoring in biology. Three class hours and three hours laboratory. Spring (10:30 T.Th., Laboratory 1:30 M.). 4 Hours

10. HONORS READINGS IN GENERAL BIOLOGY

Advanced readings and discussions for selected students enrolled concurrently in Biology 1. The course is open only to those chosen by the instructors on the basis of high school work in biology, college entrance examination scores or special tests. Fall (2:00 Th.). 1 Hour

34. MICROBIOLOGY

A study of microorganisms, with emphasis on the bacteria. A consideration of their structure, metabolism, classification, identification and relation to man. Three class hours and three hours laboratory. Prerequisite: Chemistry I or II or consent of the instructor. Fall (9:30 M.W.F., Laboratory 12:30 W.). 4 Hours

50. VERTEBRATE STRUCTURE AND EVOLUTION

Evolutionary processes and mechanisms and the methods and principles of classification are considered in association with a comparative study of the structure, classification and aspects of the general biology of the vertebrates. The origin of vertebrate diversity through evolutionary processes is emphasized. Three class hours and six hours of laboratory. Fall (7:30 T.Th., Laboratory 1:30-3:20 M.W.F.). 5 Hours

52. VERTEBRATE PHYSIOLOGY

A study of the physiology of the systems, organs and tissues of the vertebrate body. Vertebrate anatomy is involved only to the extent necessary to deal with the structural basis for function. This course is not open to students who have taken Biology 2. Three class hours and three hours of laboratory. Prerequisite: Chemistry 1 or 11 or consent of instructor. Spring (7:30 M.W.F., Laboratory 1:30-4:20 W. or Th.). 4 Hours

55, 105. INVERTEBRATE ZOOLOGY

A comparative study of the invertebrate phyla, including their anatomy, physiology, reproduction and development, ecology and classification. Three class hours and three hours laboratory. Spring (9:30 M.W.F.), alternate years, offered 1968-69. 4 Hours

60. PLANT PHYSIOLOGY

The physiological processes of plants. Principles of absorption, conduction, transpiration, growth and reproduction. Prerequisite: Chemistry 1 or 11, or consent of instructor. Three class hours and three hours laboratory. Spring (7:30 M.W.F., Laboratory 1:30-4:20 W.). 4 Hours

70, 120. NONVASCULAR PLANTS

The morphology, development, reproduction and evolution of nonvascular plants. Emphasis is on the algae, fungi and bryophytes. Three class hours and three hours laboratory. Field trips required. Spring (7:30 T.Th., Laboratory 1:30-4:20 F.), alternate years, offered 1967-68. 4 Hours

109. ANIMAL DEVELOPMENT

A study of the processes and patterns associated with animal reproduction and development. The course introduces the student to basic descriptive embryology, comparative embryology and experimental embryology. Two class hours and six hours of laboratory. Fall (10:30 T.Th., Laboratory 1:30-4:20 T.), alternate years, offered 1967-68. 4 Hours

112. PLANT ANATOMY

A developmental study of the anatomy and reproduction in vascular plants, with emphasis on the seed plants. Internal and external factors influencing development will be considered. Two class hours and six hours laboratory. Spring (7:30 T.Th., Laboratory 1:30-4:20 F.), alternate years, offered 1968-69. 4 Hours

116. ECOLOGY

A study of the relationships between organisms and their environments, including both physical and biotic environments. The course includes both laboratory and field work. Three class hours and three hours laboratory. Spring (9:30 M.W.F., Laboratory or field trips, 1:30-4:20 T., continuing later for some field trips). 4 Hours

163. CELL BIOLOGY

A study of cell structure and function. The course includes topics in molecular biology, biochemistry and cell physiology. The laboratory consists of cytological observations and techniques and an introduction to molecular biological techniques. Two class hours and six hours laboratory. Fall (10:30 T.Th., Laboratory 1:30-4:20 T.), alternate years, offered 1968-69. 4 Hours

183. GENETICS

A study of the principles of heredity and the nature and action of genes. Three class hours and three hours laboratory. Fall (9:30 M.W.F.). 4 Hours

187 SEMINAR IN BIOLOGY

Presentation and discussion of advanced topics and current research trends. Students expecting to enroll in seminar in the spring must be in consultation during the fall semester with the instructors about their plans and preparation for the seminar. *Prerequisite:* excellent must be majoring in biology or must obtain the consent of the instructor. Spring enrollment, seminar meetings distributed throughout the year. 7:00 p.m. to 8:00 p.m. 1 Hour

190 PROBLEMS IN BIOLOGY

Advanced study of special topics in biology. *Prerequisite:* consent of instructor. By appointment. 1-3 Hours

CHEMISTRY

Requirements for a major: a minimum of twenty-four semester hours including courses 11, 12, 55, 56, 111 or 112, and others that seem desirable for the student's future plans. More than twenty-four hours are recommended for students planning on going on to graduate school.

Related supporting courses required: At least eight hours in Mathematics and eight hours in Physics.

Recommended courses are Chemistry 132, 131, and 132, Physics 124 and Calculus.

NOTE: Students may begin a study of chemistry at three different levels:

1. Students with outstanding backgrounds in chemistry as verified by a test given by the department during enrollment may proceed to more advanced courses without enrollment in College Chemistry 1 or 11.

2. Students who have not had high school chemistry will normally begin General Chemistry 1 in the spring semester.

3. Students who have had high school chemistry will normally enroll in Chemistry 11. A test will be given during the first period and if a low score is obtained the student will be counseled to begin General Chemistry 1 in the spring semester.

I. GENERAL CHEMISTRY

This course is for students who have not had high school chemistry or a satisfactory background for Chemistry 11. Class session three hours, laboratory two hours. Spring. 11:30 M-W-F. 4 Hours

11. COLLEGE CHEMISTRY

A study of the principles of chemistry, the periodic table and modern atomic structure, as a basis for the systematic study of the properties of the elements. This course is for students who have had high school chemistry or are science majors. Class sessions three hours, laboratory two hours. Fall. 10:30 T-Th. Laboratory one section. 1:30-3:30 M., 3:30-5:30 M., 1:30-3:30 T., 3:30-5:30 T. 4 Hours

12. INORGANIC CHEMISTRY AND QUALITATIVE ANALYSIS

A study of the chemistry of the metals and non-metals. Theory and practical qualitative analysis. This is a continuation of Chemistry 11. Class session three hours, laboratory six hours. *Prerequisite:* Chemistry 11 or 1 and consent of instructor. Spring. 10:30 T-Th. Laboratory meeting period 12:30-1:30 T. 5 Hours

51. ELECTROCHEMISTRY

A study of the principles of voltaic and galvanic cells, electrolytic cells, electrolysis and electrodeposition. Class session two hours. Prerequisite: Chemistry 1 or 11. Fall 10:30 T,Th. 2 Hours

53. INTRODUCTORY ORGANIC CHEMISTRY

A study of the fundamentals of organic chemistry, including both aliphatic and aromatic compounds, proteins, fats, and carbohydrates. Nutritional, medicinal, and biochemical aspects of organic chemistry are considered. Class session three hours, laboratory two hours. Prerequisite: Chemistry 1 or 11. Spring '8-30 M,W,F., Laboratory 13:30-5:20 M. 4 Hours

55. QUANTITATIVE ANALYSIS

A study of the principles and practice of gravimetric and volumetric analysis. Class session two hours, laboratory six hours. Prerequisite: Chemistry 12. Fall 7:30 T,Th., Laboratory 1:40 Th. 7 Hours

56. QUANTITATIVE ANALYSIS

A study of the principles and practice in volumetric, electrochemical, colorimetric, and other methods of analysis. Class session two hours, laboratory nine hours. Prerequisite: Chemistry 55. Spring 7:40 T,Th. Laboratory 1:40 T,Th. 7 Hours

111. ORGANIC CHEMISTRY

A study of the more important groups of organic compounds, both aliphatic and aromatic. Class session three hours, laboratory three hours. Prerequisite: Chemistry 12. Fall 8:30 M,W,F., Laboratory 1:40-3:20 Th., alternate years, offered 1968-69. 4 Hours

112. ORGANIC CHEMISTRY

Advanced study of the principles of organic chemistry with emphasis on the mechanisms of reactions and organic synthesis. Class session three hours, laboratory three hours. Prerequisite: Chemistry 111 or 53 and consent of instructor. Spring 11:30 M,W,F., Laboratory 1:30-4:20 Th., alternate years, offered 1968-69. 7 Hours

132. CHEMICAL PREPARATIONS

Laboratory work in the preparation of either inorganic or organic compounds suited to the student's need. Laboratory three or six hours. Prerequisite: courses in both organic and inorganic chemistry and the consent of the instructor. By appointment. 3-6 Hours

152. ADVANCED INORGANIC CHEMISTRY

A study of inorganic chemistry with special attention given to the relation of atomic and molecular structures to the physical and chemical properties of the elements, chemistry of complexions and the less common elements. Class session three hours. Prerequisite: Chemistry 12 and 54 or 55. Fall 10:30 M,W,F., alternate years, offered 1968-69. 3 Hours

161-162. PHYSICAL CHEMISTRY

A study of the physical-chemical properties of matter including thermodynamics, kinetic theory, electrochemistry, and other areas of physical chemistry. Class session three hours, laboratory three hours. Prerequisites: thirteen hours of chemistry and Mathematics 51-52. This year 8:30 M,W,F., alternate years, offered 1967-68. Per semester 3 Hours

185 PROBLEMS IN CHEMISTRY

Advanced study of special topics in chemistry or undergraduate research.
Prerequisite: senior standing and the consent of the instructor. By appointment.
1-3 Hours

MATHEMATICS

Requirements for a major: a minimum of twenty-four semester hours from courses numbered 31 and above.

Related supporting courses required: Chemistry 4 or Chemistry 11, Physics 3-4, or Physics 5-6 (Physics 5-6 is recommended).

Students who have an adequate background in algebra and trigonometry as verified by tests administered by the McPherson Mathematics Department may begin their study of mathematics with Analytic Geometry and Calculus I (Math 51).

1. PRINCIPLES OF ARITHMETIC

History, sets, relations, binary operations, structure of the number system and analysis of arithmetic computation. (A course for elementary teachers.)
Spring (2:30 M.W.F.) 3 Hours

4. STRUCTURAL CONCEPTS

Structure of the number system, informal geometry and basic concepts of algebra. (A course for elementary school teachers.) Prerequisite: Mathematics 1. Fall (2:30 M.W.F.), alternate years, offered 1968-69. 3 Hours

3. INTERMEDIATE ALGEBRA

The algebra normally covered through the first semester in second year high school algebra. Factoring, linear equations, logarithms, exponents, and radicals. Prerequisite: 1-year U.S. Algebra. Fall (10:30 M.W.F.) 2 Hours

7. ALGEBRA AND TRIGONOMETRY

A study of elementary functions, their graphs and applications, including polynomials, rational and algebraic functions, exponential, logarithmic and trigonometric functions; quadratic equations; systems of equations, the rudiments of plane analytic geometry; and arithmetic and geometric progressions. Prerequisite: Mathematics 3 or its equivalent. Fall (7:30 M.F.), and Spring (10:30 M.F.) 3 Hours

51-52. ANALYTIC GEOMETRY AND CALCULUS I, II

Functions, limits, graphs, differentiation and integration of algebraic and transcendental functions, applications, conic sections, and polar coordinates. Prerequisite: Mathematics 7. The year (12:30 M.T.Th.F.)
Per semester 4 Hours

7B. STATISTICS I

Mathematical theory of probability, mathematical models, testing hypotheses, frequency distribution, correlation, and regression. Terminology and basic theory will be stressed. This course is for students majoring in any field where statistics might be used. Fall (9:30 M.W.F.), alternate years, 1968-69. Prerequisite: Mathematics 4 or equivalent. 3 Hours

91, 101. ANALYTIC GEOMETRY AND CALCULUS III

Continuation of differentiation and integration. Infinite series, solid analytic geometry, partial differentiation, multiple integrals. Prerequisite: Mathematics 52. Fall (7:30 M.T.Th.F.) 4 Hours

96, 130. DIFFERENTIAL EQUATIONS

Methods of solving ordinary and partial differential equations with applications to problems of science. Prerequisite: Math 91 or 101. Spring (11:30 M.W.F.). 3 Hours

141. COLLEGE GEOMETRY

Foundations of plane geometry, including logic, methods of proof, constructions, theorems of Ceva and Menelaus, transformations, and inversions. Prerequisite: Mathematics 51. Fall (8:30 M.W.F.), alternate years, 1967-68. 3 Hours

142. PROJECTIVE GEOMETRY

Projective geometry in two and three dimensions. Prerequisite: Math 141. Spring (8:30 M.W.F.), alternate years, 1967-68. 3 Hours

175. ALGEBRA I

Theory of matrices and linear algebra. Prerequisite: Math 51. Fall (9:30 M.W.F.), alternate years, 1967-68. 3 Hours

176. ALGEBRA II

General algebraic systems, groups, rings, and fields. Prerequisite: Math 175 or consent of instructor. Spring (9:30 M.W.F.), alternate years, 1967-68. 3 Hours

179. STATISTICS II

Continuation of Statistics I. Prerequisite: Statistics I and Mathematics 51. Spring (8:30 M.W.F.), alternate years, 1968-69. 3 Hours

181. ANALYSIS

Calculus of functions of one and of several variables, partial differentiation, integrals, and series. Prerequisite: Mathematics 96 or 130. Spring (7:30 M.T.Th.F.), alternate years, 1968-69. 4 Hours

109. PROBLEMS IN MATHEMATICS

Advanced study of special topics in mathematics. Prerequisite: consent of instructor. By appointment. 1-3 Hours

PHYSICS

Requirements for a major: a minimum of twenty-four semester hours including 5, 6, 101, and 104.

Related supporting courses: Mathematics 51, 52, 101, 103, and 100 and Chemistry 11 and 12.

I. DESCRIPTIVE PHYSICS

A descriptive approach to physics using only a limited amount of algebra. A study will be made of mechanics, heat, and an introduction to electricity and magnetism with emphasis on conservation laws, symmetry, and concept development. Not open to students who have credit for Physics A, 4, 5, or 6. Not open to physics majors. Two class hours and one two hour laboratory session each week. Fall semester (10:30 M.W. - Lab at 1:30 or 3:30 Th or F. at 7:30.). 3 Hours

2. DESCRIPTIVE PHYSICS

A continuation of Physics 1. The subject matter studied will be electricity and magnetism, optics, quantum mechanics, and atomic physics. Not open to students who have credit for Physics 3 or 6. Not open to Physics majors. Prerequisite: Physics 1. Two class hours and one two-hour laboratory session each week. Spring semester: 10:30 M-W, Lab: Th. at 1:30 or 3:30 p.m. or F. at 7:30. 3 Hours

3. GENERAL PHYSICS

A study of physics from the viewpoint of the science major who will expect to use the ideas and concepts but will not work directly in the field of physics. The subject matter studied will be mechanics, heat, and electricity and magnetism with emphasis on conservation laws, symmetry, concept development and the use of algebra and trigonometry to formulate and solve physics problems. Not open to students who have credit for Physics 4. Three class hours and one two-hour laboratory each week. Prerequisite: Mathematics 7. Fall semester: 10:30 M-W-F, Lab: Th. at 1:30 or 3:30 p.m. or F. at 7:30. 5 Hours

4. GENERAL PHYSICS

A continuation of Physics 3. The subjects studied are electricity and magnetism, optics, quantum mechanics, and atomic physics. Not open to students who have credit for Physics 6. Three class hours and one two-hour laboratory session each week. Prerequisite: Physics 3. Spring semester: 10:30 M-W-F, Lab at 1:30 or 3:30 on Th. or F. at 7:30. 5 Hours

5. INTRODUCTORY PHYSICS

A study of physics from the viewpoint of the pre-engineering, chemistry, or physics major. A study will be made of mechanics, heat and electricity and magnetism with emphasis on conservation laws, symmetry, the development of concepts using calculus, and the formulation and solution of problems using calculus. Not open to students who have credit for Physics 5. Four class hours and one two-hour laboratory each week. Prerequisite or concurrent: Mathematics 51. Fall semester: 10:30 M-T-W-Th., Lab arranged. 5 Hours

6. INTRODUCTORY PHYSICS

A continuation of Physics 5. The subjects studied are electricity and magnetism, optics, quantum mechanics, and atomic physics. Not open to students who have credit for Physics 4. Four class hours and one two-hour laboratory each week. Prerequisite: Physics 5. Prerequisite or concurrent: Mathematics 52. Spring semester: 10:30 M-T-W-Th., Lab arranged. 5 Hours

NOTE: Prerequisites for all the following courses except Physics 106, 110 and 109 are Mathematics 101, can be concurrent, and Physics 6. Mathematics 130 is highly recommended. Prerequisite for Physics 106, 110, and 109 is Physics 4 or 6.

101. MECHANICS

Analytical treatment of vectors, kinematics and dynamics of particles, force fields, and simple harmonic oscillators and modifications. Fall semester, alternate years, offered 1966-69. M-W-F, 8:30. 3 Hours

102. OPTICS

Theory of geometrical and physical optics including thick lenses, types of mirrors, combination of lenses and mirrors, aberrations, optical systems, and an introduction to diffraction, interference, and polarization. Spring semester, alternate years, offered 1967-68. M-T-Th. at 1:30. 4 Hours

104. THERMODYNAMICS

A study of thermometry and temperature, the ideal gas laws, the first and second laws of thermodynamics and entropy. Fall semester, alternate years, offered 1967-68. MWF at 8:30. 3 Hours.

104. ELECTRICITY AND MAGNETISM

Analytical treatment of vectors, a study of electric fields, potential, direct current, magnetic fields, alternating current, electromagnetic oscillations and electromagnetic waves. Fall semester, alternate years, offered 1967-68. MThF at 12:30. 3 Hours.

105. MODERN AND ATOMIC PHYSICS

A study of the special theory of relativity, particle waves, quantum mechanics, the hydrogen atom, complex atoms, molecules and crystal structure, the solid state, atomic nuclei, nuclear reactions, and elementary particles. Fall semester, alternate years, offered 1968-69. MThF at 12:30. 3 Hours.

106. ELECTRONICS

A study of detectors, regulators, oscillators, and amplifiers using vacuum tubes and semiconductor devices with emphasis on the assisting instruments used in research. Two class hours and six hours of laboratory each week. Spring semester. Lab arranged, alternate years, offered 1968-69. TH at 12:00. 3 Hours.

110. ADVANCED PHYSICAL LABORATORY

Independent work in the laboratory in the areas of courses 103 through 106 as apparatus and facilities are available. The student must complete four experiments per semester. Six hours per week. Repeatable to a maximum of eight hours. Time arranged. Fall and Spring semesters. 2 Hours.

112. ASTRONOMY

See Sciences-General. 3 Hours.

139. PROBLEMS IN PHYSICS

Independent study in laboratory research, library research or problem solving. Repeatable to a maximum of six hours. Time arranged. Fall and Spring semesters. 3 Hours.

SCIENCES—GENERAL**1. PHYSICAL SCIENCE**

A study of man's physical environment through the subject matter of astronomy, geology, physics, and chemistry, applications of the scientific method and the impact of science on man's culture. This course fulfills part of the science requirement for students not majoring in biology, physics, chemistry, or mathematics. Class session three hours, laboratory two hours. Physical Science is offered in fall every other year but offered in the spring every year. Fall 1967-68 only. Fall 9:30 MWF, Spring 9:30 MWF. 4 Hours.

103. SCIENCE IN THE ELEMENTARY SCHOOL

Emphasis is placed upon effective methods for teaching science to elementary school children. The philosophy and purpose of elementary school science is also stressed. Students are given opportunities to review materials and experience experiments used at this level. Prerequisite: one course in physical science and one in biological science. Spring, Evening, alternate years, offered 1968-69. 2 Hours.

104. **GEOLOGY**

A study of the materials and surface features of the earth, the agencies that produce and change them, and their application to man and his uses of them. A study of earth history as shown by fossils and rock structure. Class session three hours, laboratory one hour. Fall 7-25 Th. evening, alternate years, offered 1967-68. 3 Hours

140. **NATURAL SCIENCE WORKSHOP**

A workshop devoting special attention to the usefulness of an understanding of science in teaching in the elementary school. Summer only. 1 Hour

146. **CONSERVATION WORKSHOP**

A workshop designed to acquaint the teacher with the necessary philosophy for the conservation of all of our natural resources. The participant will be exposed to background information, methods, and materials in this very important field.

152. **ASTRONOMY**

A study of constellations, planets, meteors, and comets, size, composition, and motion of the sun and stars. Fall 7-30-9-50 Th. eve., alternate years, offered 1968-69. 4 Hours

170. **METHODS OF TEACHING THE NATURAL SCIENCES**

[See Education and Psychology.] 2 Hours

SOCIAL SCIENCES AREA

ECONOMICS AND BUSINESS ADMINISTRATION

Requirements for a major: a minimum of twenty-four semester hours, including courses 1, 4, 5, 6, and a minimum of twelve hours in upper level courses, including three of the following: 109, 110, 125, 126, 130, 151.

Majors in this department who are preparing for a business career will normally qualify for the B.S. degree. However, should a student wish to qualify for the A.B. degree, he may do so by meeting those general requirements specified by the College for the A.B. degree and by earning a minimum of 12 semester hours in the following courses: 109, 125, 126, 130, 140, 151, 199.

Students who plan to teach high school commercial subjects are advised to prepare to teach both shorthand and typewriting by taking courses in the secretarial sciences in addition to courses in economics and business administration.

1. ELEMENTARY ECONOMICS (macroeconomics)

The first semester of general economics deals with these major topics: basic economic concepts, business organization, labor and industrial relations, the economic role of government, national income and fluctuations, prices, and money and banking. Not open to freshmen. Fall (9:30 M.W.F.; 11:30 M.W.F.); Spring (8:30 M.W.F.; 9:30 M.W.F.) 3 Hours

4. ELEMENTARY ECONOMICS (microeconomics)

The second semester of general economics covers: the composition and pricing of national output, the distribution of income, pricing of productive factors, international trade and finance, and current economic problems. Spring (11:30 M.W.F.) 3 Hours

5-6. ELEMENTARY ACCOUNTING

Fundamental principles of accounting, including the theory of debit and credit as applied to the keeping of double-entry books, preparation of simple financial statements, closing the ledger, partnership and corporation accounting, and the use of columnar books and controlling accounts. The year (8:30 M.W.F.; 1:30 M.W.F.) Per semester 3 Hours

15. COST ACCOUNTING

A study of basic cost accounting for manufacturing firms, including discussion of inventories and unit costs and showing distribution and flow of costs through the process and job order cost systems. Prerequisite: Elementary Accounting. Fall (7:30 T.Th.), alternate years, offered 1968-69 3 Hours

30. PRINCIPLES OF GEOGRAPHY

A study of the relation of man to his environment: physical factors and their effects on man's activities, regional influences. A course which will satisfy the geography requirements for an elementary teacher's certificate. Spring (7:30 T.Th.) 3 Hours

105. INTERMEDIATE ACCOUNTING

A study of accounting principles and procedures essential to the preparation of adequate financial statements with emphasis on the corporate forms. Special attention is given to capital contributions, treasury stock, adjustments, and statements of surplus, income determination, cash, receivables, and inventory. Prerequisite: Elementary Accounting. Fall (7:30 T.Th.), alternate years, offered 1967-68 3 Hours

109. INTERMEDIATE ACCOUNTING

A continuation of course 107. Deals mainly with consignments, installments, mortgages, fixed assets, depreciation and depletion, intangible assets, current and fixed liabilities, bonds and reserves, and analysis of financial statements. Prerequisite: course 107. Spring, 7-30 T Th; alternate years, offered 1967-68. 3 Hours

110. INCOME TAX ACCOUNTING

A study of the federal income tax laws regarding taxable income, deductions, exemptions, calculation of tax, and filing returns. The course covers federal income tax for the individual, the partnership, and the small corporation. Some attention is given to the Kansas individual income tax. Prerequisite: 3 hours of accounting or consent of instructor. Spring, 2-30 T Th. 2 Hours

109. INTERNATIONAL ECONOMICS

An analysis of the problems of the modern international economy; a study of the mechanisms of international trade and finance; an evaluation of international commercial and financial policies and institutions, with special reference to those of the United States and the United Nations. Prerequisite: Economics I. Fall, 9-30 MWF; alternate years, offered 1966-67. 3 Hours

110. BUSINESS LAW

A survey of the background of law. Contracts, sales, agency, judgments, negotiable instruments, partnerships, and corporations are among the subjects discussed. Emphasis on the relation of law to ordinary business transactions. Spring, 9-30 MWF; alternate years, offered 1967-68. 3 Hours

116. FAMILY FINANCE

See Home Economics.

121. MARKETING

A study of the functions of marketing and the agencies performing these functions; the elimination of middlemen by cooperative marketing and direct marketing; the total system; problems of price setting, price maintenance, unfair competition, and the relation of government to marketing. Fall, 10-30 T Th; alternate years, offered 1967-68. 2 Hours

125. BUSINESS ORGANIZATION AND FINANCE

A study of forms of business organizations, financial policies and methods of raising capital, forms of securities, working capital, depreciation, sinking funds and reserves, surplus and dividend policies, combinations, reconstruction and reorganization. Prerequisite: one year of College Accounting. Fall, 10-30 MWF. 3 Hours

126. INTERMEDIATE ECONOMIC THEORY

A study of the important theories of recent and contemporary economists and of the relation of economic activities to the general social welfare. Prerequisite: Elementary Economics or the consent of the instructor. Fall, 10-30 T Th; alternate years, offered 1966-67. 2 Hours

130. PUBLIC FINANCE

A study of public expenditures, public revenues, public debt, and the tax problem with special emphasis placed upon the shifting and incidence of taxation, and upon the present tax system in the United States. Spring, 10-30 MWF; alternate years, offered 1968-69. 3 Hours

136. FINANCIAL STATEMENT ANALYSIS

A study of the methods of analyzing and interpreting financial statements from the standpoints of bankers, credit analysts, investors, management and others. Prerequisite: 24 hours of accounting. Spring 30 TTh alternate years; offered 1967-68. (3 Hours)

140. LABOR ECONOMICS

An analysis of the growth of a working class, trade unionism, and collective bargaining and public policy; the economics of income and taxation with emphasis on recent developments in the field of social security. Spring 30-30 MWF (3 Hours)

151. MONEY AND BANKING

A study of the nature and functions of money, its relation to prices, the monetary system of the U.S., functions of banks, bank operations, bank credit, the American banking system, bank organization, foreign exchange, and foreign banking systems. Fall 30-30 MWF alternate years; offered 1967-68. Prerequisite: Economics 2. (3 Hours)

199. INDEPENDENT STUDY IN ECONOMICS

See regulations governing independent study. By appointment. (3 Hours)

HISTORY

Requirements for a major: a minimum of twenty-four semester hours including courses 1, 3, 7-B, 11, 15, 122.

Honors program in history: students who qualify for honors courses may enroll in four hours of United States history each semester, or may enroll in Historiography as upper-level students. Qualification for the program is based upon high scores, promise as a research student, and recommendation by the history faculty.

1. WESTERN CIVILIZATION

A survey of the major developments in western culture and world setting from earliest times to 1700. This course is designed to meet the general education requirement of students not specializing in the department. Fall 30-30 TTh (3 Hours)

3. EARLY MODERN EUROPE

A study of the Renaissance, the Protestant revolt, the rise of modern nation states, and the significant developments that followed, including the great revolutions of the 18th century. The year 30-30 MWF (3 Hours)

4. TWENTIETH CENTURY EUROPE

A study of the background of the World War I (1914-1918), the peace settlement, the complicating factors during the next two decades, the Second World War, and the problems facing the United Nations. The year 30-30 MWF (3 Hours)

7-B. UNITED STATES HISTORY

First semester: 1492-1865, second semester: 1865-1895. A survey of the political and social growth of the American people from colonial times to the present. The year 30-30 MWF 2-30 MWF. Honors Program 3 Hr. (Per semester) (3 Hours)

91. FIELD SESSION IN MEXICAN HISTORY

A reading and laboratory course in Mexican history in which the major part is spent in travel and residence in Mexico. Prerequisite: instructor's permission. Offered in summer of 1966; limited enrollment. 3 Hours

98-99. THE CONTEMPORARY WORLD

A lecture and discussion approach to an analysis of significant areas and problems in today's world. Several topics will be treated each semester, and may vary according to the impact of world developments. The year 11:30 Th. 1 Hour

111. THE ANCIENT MEDITERRANEAN WORLD

A study of the political, social, and cultural development of the ancient Greeks and Romans and their contributions to western civilization. Spring 1:30 M.W.F., alternate years, offered 1967-68. 3 Hours

112. MEDIEVAL HISTORY

A study of European and related areas from the period of Roman decline to 1500. Spring 1:30 T.Th., alternate years, offered 1967-68. 3 Hours

117. LATIN AMERICAN HISTORY

From the colonization by the Spanish and the Portuguese to the present. The institutions of the old regime, the wars of independence, developments and problems of the new nations, and the relations with the United States are emphasized. Fall 1:30 T.Th., alternate years, offered 1968-69. 3 Hours

119. THE FAR EAST

A survey of the emergence of modern Japan, the Chinese struggle for national sovereignty, and contemporary political conflicts, with emphasis on the cultural contrasts between the Occident and the Orient. Fall 1:30 T.Th., alternate years, offered 1967-68. 3 Hours

122. TRANS-MISSISSIPPI WEST

A regional study with emphasis on climatic and geologic backgrounds, exploration, settlement, and present day economic and political significance. Spring 1:30 T.Th., alternate years, offered 1968-69. 3 Hours

155. AMERICAN DIPLOMATIC HISTORY

A study of the diplomatic relations of the United States from the Revolutionary period to the present. Fall 11:30 M.W.F., alternate years, offered 1968-69. 3 Hours

160. SEMINAR ON LATIN AMERICA

A study of the cultural, socio-economic, political, and institutional development and life of Central and South America. Certain important current Latin American problems will be examined in detail. Fall 1968-69 1:30 T.Th. 3 Hours

161. HISTORY OF KANSAS

A study of the formative years of the history of the state and the contributions her people made to the total stream of American development. Designed with special relevance for public school teachers. Fall 17:25 p.m. Th., alternate years, offered 1968-69. 3 Hours

189-190. PROBLEMS IN HISTORY

Advanced study of special topics in history. Prerequisite: consent of the instructor. By appointment. Per semester 1-3 Hours

191. FIELD SESSION IN MEXICAN HISTORY

A reading and laboratory course in Mexican history which is largely constituted of travel and residence in Mexico. The reading and study requirement in this course is more extensive than in course 91. Prerequisite: instructor's permission. Offered in summer of 1968. Limited enrollment. 3 Hours

193. SOVIET RUSSIA AND EAST EUROPE SEMINAR

3 Hours

194. SEMINAR ON AFRICA

3 Hours

198. HISTORY OF POLITICAL THOUGHT

(See Political Science)

3 Hours

199. HISTORIOGRAPHY

A study in the techniques of historical research and historical criticism. Fall (7-25 p.m. Th.); alternate years, offered 1967-68. Honors only. 3 Hours

Political Science

I. UNITED STATES GOVERNMENT

A critical study of the organization and operation of the federal, state, and local governments. Fall, 1967-68 (11-30 M.W.F.); Spring, 1968-69 (12-30 M.W.F.). 3 Hours

101-102. STUDIES IN AMERICAN GOVERNMENT

A course designed for those who desire advanced work in special areas of American Government. Prerequisite: instructor's permission. By appointment. Per semester 1-3 Hours

120. AMERICAN POLITICS

Students may enroll in two or three hours. Two hours will be spent in the normal classroom approach studying political parties, pressure groups, propaganda, and campaigns and elections. An additional hour will be offered in which the class will spend approximately one week in Washington, D.C., in observation and interviews dealing with governmental and political issues. Spring (10-30 T.Th.); alternate years, offered 1967-68. 2-3 Hours

150. INTERNATIONAL RELATIONS

A study of the twentieth century nationalism, imperialism, militarism, international law, international organization and cooperation, and contemporary political problems. Prerequisite: six hours of college history. Spring (11-30 M.W.F.); alternate years, offered 1968-69. 3 Hours

152. COMPARATIVE GOVERNMENT

An analysis of the important governments of the contemporary period. Spring (11-30 M.W.F.); alternate years, offered 1967-68. 3 Hours

155. AMERICAN DIPLOMATIC HISTORY

(See History)

198. HISTORY OF POLITICAL THOUGHT

A survey of the ideals and men who have shaped the course of political thinking from classical times to the present. Spring 1968 (11-30 T.Th.); 3 Hours

SOCIOLOGY

Requisites: 101 or 102 or 103 or 104 or 105 or 106 or 107 or 108 or 109 or 110 or 111 or 112 or 113 or 114 or 115 or 116 or 117 or 118 or 119 or 120 or 121 or 122 or 123 or 124 or 125 or 126 or 127 or 128 or 129 or 130 or 131 or 132 or 133 or 134 or 135 or 136 or 137 or 138 or 139 or 140 or 141 or 142 or 143 or 144 or 145 or 146 or 147 or 148 or 149 or 150 or 151 or 152 or 153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or 167 or 168 or 169 or 170 or 171 or 172 or 173 or 174 or 175 or 176 or 177 or 178 or 179 or 180 or 181 or 182 or 183 or 184 or 185 or 186 or 187 or 188 or 189 or 190 or 191 or 192 or 193 or 194 or 195 or 196 or 197 or 198 or 199 or 200 or 201 or 202 or 203 or 204 or 205 or 206 or 207 or 208 or 209 or 210 or 211 or 212 or 213 or 214 or 215 or 216 or 217 or 218 or 219 or 220 or 221 or 222 or 223 or 224 or 225 or 226 or 227 or 228 or 229 or 230 or 231 or 232 or 233 or 234 or 235 or 236 or 237 or 238 or 239 or 240 or 241 or 242 or 243 or 244 or 245 or 246 or 247 or 248 or 249 or 250 or 251 or 252 or 253 or 254 or 255 or 256 or 257 or 258 or 259 or 260 or 261 or 262 or 263 or 264 or 265 or 266 or 267 or 268 or 269 or 270 or 271 or 272 or 273 or 274 or 275 or 276 or 277 or 278 or 279 or 280 or 281 or 282 or 283 or 284 or 285 or 286 or 287 or 288 or 289 or 290 or 291 or 292 or 293 or 294 or 295 or 296 or 297 or 298 or 299 or 300 or 301 or 302 or 303 or 304 or 305 or 306 or 307 or 308 or 309 or 310 or 311 or 312 or 313 or 314 or 315 or 316 or 317 or 318 or 319 or 320 or 321 or 322 or 323 or 324 or 325 or 326 or 327 or 328 or 329 or 330 or 331 or 332 or 333 or 334 or 335 or 336 or 337 or 338 or 339 or 340 or 341 or 342 or 343 or 344 or 345 or 346 or 347 or 348 or 349 or 350 or 351 or 352 or 353 or 354 or 355 or 356 or 357 or 358 or 359 or 360 or 361 or 362 or 363 or 364 or 365 or 366 or 367 or 368 or 369 or 370 or 371 or 372 or 373 or 374 or 375 or 376 or 377 or 378 or 379 or 380 or 381 or 382 or 383 or 384 or 385 or 386 or 387 or 388 or 389 or 390 or 391 or 392 or 393 or 394 or 395 or 396 or 397 or 398 or 399 or 400 or 401 or 402 or 403 or 404 or 405 or 406 or 407 or 408 or 409 or 410 or 411 or 412 or 413 or 414 or 415 or 416 or 417 or 418 or 419 or 420 or 421 or 422 or 423 or 424 or 425 or 426 or 427 or 428 or 429 or 430 or 431 or 432 or 433 or 434 or 435 or 436 or 437 or 438 or 439 or 440 or 441 or 442 or 443 or 444 or 445 or 446 or 447 or 448 or 449 or 450 or 451 or 452 or 453 or 454 or 455 or 456 or 457 or 458 or 459 or 460 or 461 or 462 or 463 or 464 or 465 or 466 or 467 or 468 or 469 or 470 or 471 or 472 or 473 or 474 or 475 or 476 or 477 or 478 or 479 or 480 or 481 or 482 or 483 or 484 or 485 or 486 or 487 or 488 or 489 or 490 or 491 or 492 or 493 or 494 or 495 or 496 or 497 or 498 or 499 or 500 or 501 or 502 or 503 or 504 or 505 or 506 or 507 or 508 or 509 or 510 or 511 or 512 or 513 or 514 or 515 or 516 or 517 or 518 or 519 or 520 or 521 or 522 or 523 or 524 or 525 or 526 or 527 or 528 or 529 or 530 or 531 or 532 or 533 or 534 or 535 or 536 or 537 or 538 or 539 or 540 or 541 or 542 or 543 or 544 or 545 or 546 or 547 or 548 or 549 or 550 or 551 or 552 or 553 or 554 or 555 or 556 or 557 or 558 or 559 or 560 or 561 or 562 or 563 or 564 or 565 or 566 or 567 or 568 or 569 or 570 or 571 or 572 or 573 or 574 or 575 or 576 or 577 or 578 or 579 or 580 or 581 or 582 or 583 or 584 or 585 or 586 or 587 or 588 or 589 or 590 or 591 or 592 or 593 or 594 or 595 or 596 or 597 or 598 or 599 or 600 or 601 or 602 or 603 or 604 or 605 or 606 or 607 or 608 or 609 or 610 or 611 or 612 or 613 or 614 or 615 or 616 or 617 or 618 or 619 or 620 or 621 or 622 or 623 or 624 or 625 or 626 or 627 or 628 or 629 or 630 or 631 or 632 or 633 or 634 or 635 or 636 or 637 or 638 or 639 or 640 or 641 or 642 or 643 or 644 or 645 or 646 or 647 or 648 or 649 or 650 or 651 or 652 or 653 or 654 or 655 or 656 or 657 or 658 or 659 or 660 or 661 or 662 or 663 or 664 or 665 or 666 or 667 or 668 or 669 or 670 or 671 or 672 or 673 or 674 or 675 or 676 or 677 or 678 or 679 or 680 or 681 or 682 or 683 or 684 or 685 or 686 or 687 or 688 or 689 or 690 or 691 or 692 or 693 or 694 or 695 or 696 or 697 or 698 or 699 or 700 or 701 or 702 or 703 or 704 or 705 or 706 or 707 or 708 or 709 or 710 or 711 or 712 or 713 or 714 or 715 or 716 or 717 or 718 or 719 or 720 or 721 or 722 or 723 or 724 or 725 or 726 or 727 or 728 or 729 or 730 or 731 or 732 or 733 or 734 or 735 or 736 or 737 or 738 or 739 or 740 or 741 or 742 or 743 or 744 or 745 or 746 or 747 or 748 or 749 or 750 or 751 or 752 or 753 or 754 or 755 or 756 or 757 or 758 or 759 or 760 or 761 or 762 or 763 or 764 or 765 or 766 or 767 or 768 or 769 or 770 or 771 or 772 or 773 or 774 or 775 or 776 or 777 or 778 or 779 or 780 or 781 or 782 or 783 or 784 or 785 or 786 or 787 or 788 or 789 or 790 or 791 or 792 or 793 or 794 or 795 or 796 or 797 or 798 or 799 or 800 or 801 or 802 or 803 or 804 or 805 or 806 or 807 or 808 or 809 or 810 or 811 or 812 or 813 or 814 or 815 or 816 or 817 or 818 or 819 or 820 or 821 or 822 or 823 or 824 or 825 or 826 or 827 or 828 or 829 or 830 or 831 or 832 or 833 or 834 or 835 or 836 or 837 or 838 or 839 or 840 or 841 or 842 or 843 or 844 or 845 or 846 or 847 or 848 or 849 or 850 or 851 or 852 or 853 or 854 or 855 or 856 or 857 or 858 or 859 or 860 or 861 or 862 or 863 or 864 or 865 or 866 or 867 or 868 or 869 or 870 or 871 or 872 or 873 or 874 or 875 or 876 or 877 or 878 or 879 or 880 or 881 or 882 or 883 or 884 or 885 or 886 or 887 or 888 or 889 or 890 or 891 or 892 or 893 or 894 or 895 or 896 or 897 or 898 or 899 or 900 or 901 or 902 or 903 or 904 or 905 or 906 or 907 or 908 or 909 or 910 or 911 or 912 or 913 or 914 or 915 or 916 or 917 or 918 or 919 or 920 or 921 or 922 or 923 or 924 or 925 or 926 or 927 or 928 or 929 or 930 or 931 or 932 or 933 or 934 or 935 or 936 or 937 or 938 or 939 or 940 or 941 or 942 or 943 or 944 or 945 or 946 or 947 or 948 or 949 or 950 or 951 or 952 or 953 or 954 or 955 or 956 or 957 or 958 or 959 or 960 or 961 or 962 or 963 or 964 or 965 or 966 or 967 or 968 or 969 or 970 or 971 or 972 or 973 or 974 or 975 or 976 or 977 or 978 or 979 or 980 or 981 or 982 or 983 or 984 or 985 or 986 or 987 or 988 or 989 or 990 or 991 or 992 or 993 or 994 or 995 or 996 or 997 or 998 or 999 or 1000

Sociology 25 is a prerequisite for all upper-level courses in the department.

25. INTRODUCTORY SOCIOLOGY

An introduction to the general field of sociology and its principal subfields, the nature of culture, the socialization of the individual, the characteristics of various social groups, social organization and institutions, social interaction, change, and disorganization. This course is a prerequisite for all upper-level courses in the department. Fall, three sections: A, B, 30 MWF; B, 30 30 TTh; C, 1 30 MWF. Spring, 2 30 MWF. 3 Hours.

30. RURAL SOCIOLOGY

A study of the distinctive characteristics of rural life and culture, rural environment, rural communities, social organizations, and institutions, rural attitudes and perspectives, relationship to the whole society; trends, problems, and current rapid change in rural life and outlook for the future. Spring, 10 30 MWF. 3 Hours.

64. URBAN SOCIOLOGY

A study of cities including their recent growth in number, size, and importance in modern society, the distinctive characteristics of urban life and culture, urban attitudes, social organizations, and institutions, city problems such as slums and political corruption, the possibilities in urban planning, and other future trends. Fall, 10 30 MWF. 3 Hours.

75. MARRIAGE

An examination of the steps leading to successful marriage, among them dating, courtship, engagement, and marital adjustment, possible problem areas such as family finances and religion, and the significance of divorce. The study will emphasize the intermingled physiological, psychological, intellectual and spiritual aspects of marriage. Fall, three sections: A, B, 30 MWF; B, 30 30 TTh; C, 1 30 MWF. Spring, two sections: A, B, 30 MWF; B, 1 30 TTh. 3 Hours.

102. RACIAL AND CULTURAL MINORITIES

An exploration of the problems faced by racial and cultural minority groups in our society, the causes and consequences of prejudice, the true meaning of racial and cultural differences, current crises and possible solutions, some comparison with similar situations in other countries. Offered 1967-68. Spring, 10 30 TTh. 3 Hours.

107. CULTURAL ANTHROPOLOGY

A study of man in the light of the various ways of life of cultures which he has developed in history, special attention to primitive peoples and their simple, elemental cultures in comparison with our own, theories concerning the origin and development of cultures, and how they influence each other. Fall, 10 30 MWF. 3 Hours.

108. CONTEMPORARY SOCIAL ISSUES

An exploration of pressing current social issues in the light of sociological principles and insights. Students will have a voice in the selection of the topics to be considered and will be required, after extensive reading, to formulate their own conclusions on these topics in papers or oral reports. Offered 1968-69, Spring. 10-30 TTh. 3 Hours

110. SOCIAL PSYCHOLOGY

A course attempting to explain group behavior in terms of psychological laws and principles, with special emphasis placed on the effects of environment and personality development. Fall. 2-30 MWF. 3 Hours

112. CRIMINOLOGY

A study of the causes of crime and the characteristics of the criminal; cultural and legal aspects of criminal behavior; history of the principles and methods of controlling and punishing crime; and the possibilities of rehabilitating offenders. Fall. 7-30 TTh. 3 Hours

115. HISTORY OF SOCIAL THOUGHT

A survey of great ideas about society, some produced by ancient civilizations, many others by eminent individual thinkers from early times to the present. Students will have some voice in the selection of civilizations or individuals to be considered. Offered 1967-68, Fall. 1-30 TTh. 3 Hours

116. HISTORY OF SOCIOLOGY

A study of the rise and development of sociology as a social science; the pioneer ideas of men like Comte, Spencer, Sumner, and Woot; contributions by later sociologists, American and foreign; and current trends in the discipline. Spring. 1-30 TTh. 3 Hours

117. SOCIAL WORK

A course offering a general survey of the field of social work, including a study of methods and applications. It is designed for education, religious, pre-professional, and social work students, any student may find it helpful. Spring. 2-30 MWF. 3 Hours

118. JUVENILE DELINQUENCY

A study of social factors contributing to juvenile delinquency, such as family and neighborhood influences, modern corrective programs, and the role of schools, law enforcing and other community agencies in delinquency control. Spring. 7-30 TTh. 3 Hours

120. THE FAMILY

Primarily a study of the family as a social unit of interacting personalities with attention to the psychological and spiritual factors involved; the functions, duties and problems which are part of successful family living; and the influences contributing to family disorganization. Spring. 10-30 MWF. 3 Hours

140. SOCIAL DISORGANIZATION

A survey of the "ills of society" factors which interfere with wholesome social organization—such as poverty and unemployment; physical or mental illness and mental retardation; juvenile delinquency and crime; sex offenses and family instability; community disorganization and political corruption; suicide, revolution and war. Offered 1968-69, Fall. 1-30 TTh. 3 Hours

156. THE DYNAMICS OF CULTURE.

How cultures come to be; diffusions and interactions between cultures, interactions and interrelations within cultures, studies as to why some cultures survive while others disintegrate; social structures; cultural and social planning; case studies of varied cultures. Offered 1968-69. Spring (9:30 M.W.F.) 3 Hours

161. SOCIAL DEVELOPMENT AND THE COMMUNITY.

A detailed inquiry into the relationships between personal development and the community; the family's role; the influence of the community's social structure, its economic and cultural patterns, its churches and similar agencies; also particular attention to its schools. Offered 1967-68. Spring (9:30 M.W.F.) 3 Hours

165. SOCIAL SERVICE PROJECTS

An arrangement enabling students to earn social service credit while in Brethren Volunteer Service or similar projects such as mental hospital units or work camps. Advance consent must be secured from the department and the Educational Policies Committee and requires a written statement of the expected gains from the experience in social knowledge and insight. During his service the student will be expected to take part in the project's educational program, if any, to keep in touch with the department, and to do considerable pertinent reading under its guidance. Finally, he must submit a written evaluation of the project and his experience and benefits from it within nine weeks after returning to resident study at the college. Summer session or by special arrangement. 1-2 Hours

180. SEMINAR IN CULTURAL STUDIES.

Seminar studies dealing with some of the cross diffusions and influences, cultural, national, religious, racial, economic, which have played upon certain areas and peoples. Against this background an effort is made to understand better the current and emerging situation in that part of the world. In 1964 the seminar study was, *The Far East, a Cultural Study*. 3 Hours

185. RESEARCH METHODS IN SOCIOLOGY.

A study of the basic scientific methods in sociological field work, with emphasis given to research design, questionnaire construction, scaling technique, case analysis, sampling, graphic presentation, and interviewing. Spring (8:30 M.W.F.) 3 Hours

189. PROBLEMS IN SOCIOLOGY.

Advanced study of special topics in sociology. Prerequisite: consent of the instructor. By appointment. 1-3 Hours

195. CONTEMPORARY SOCIOLOGICAL THEORY.

Review and analysis of contemporary sociological theory, including the theories of such men as George H. Mead, Thomas, Weber, Mannheim, Znaniecki, Sorokin, Becker, Lundberg, Homans, Merton and Parson. Fall (8:30 M.W.F.) 3 Hours

199. INDEPENDENT STUDY IN SOCIOLOGY.

See regulations governing independent study. By appointment. 1-3 Hours

APPLIED ARTS AND SCIENCE AREAS

EDUCATION AND PSYCHOLOGY

It is the primary function of this department to prepare students to be competent elementary or secondary school teachers. It is furthermore the purpose of this department and of the College to encourage promising and capable students to enter the teacher education program. The faculty attempts continually to evaluate the course offerings so that they may represent the highest professional standards.

Normally, the major in Education and Psychology will be interested in qualifying for the teaching profession. Therefore, the major should exhibit competencies in oral and written communication, have academic ability and interests, be strong in social and character qualities, and be of good physical and emotional health. The candidate will naturally be interested in a social service vocation.

The College believes that the development of the teacher involves classroom instruction, participation in campus, community, and church life, observation in school-related activities both on and off campus, as well as participation in the public school for an extended period of student teaching. The culmination of this comes at the time at which the student devotes an entire semester to these professional activities.

Continuing study and research is maintained by faculty and students in order to keep abreast of changing educational patterns and teaching techniques and to discover and experiment with new ones. Such studies and research will offer experiences in understanding child growth and development, the supervision of children, the development of the curriculum, and varied approaches to methods, techniques, and problems of teaching.

Requirements for a major: a minimum of twenty-four semester hours. Nine hours must be taken in the department at McPherson. General Psychology is required of all majors. For elementary education this course is required as a prerequisite to the major, but does not count as a part of the twenty-four hours.

Psychology

1. GENERAL PSYCHOLOGY

An introduction to the understanding of human behavior. Emphasis is placed on individual development and adjustment. Fall and Spring (9:30 and 2:30 M.W.F.). 3 Hours

54. PSYCHOLOGY OF ADJUSTMENT

A study of human adjustment within the framework of dynamic and experimental psychology. Fall (12:30 M.W.F.). 3 Hours

62. DEVELOPMENTAL PSYCHOLOGY

An exploration of human psychological development from birth through adolescence. Spring (1:30 M.W.F.). 3 Hours

104. ABNORMAL PSYCHOLOGY

An examination of the dynamics and patternings of maladjusted behavior. Alternate years. Spring 1967 (12:30 M.W.F.). 3 Hours

105. DYNAMICS OF PERSONALITY

Designed to provide the student with an understanding of the dynamics underlying the development of personality. Fall 1968. 3 Hours

110. SOCIAL PSYCHOLOGY

See Sociology 110.

3 Hours

121. PSYCHOLOGY OF COUNSELING

An exploration of the theory and practice of therapeutic counseling with primary emphasis on common problems of adjustment. Fall evening.

3 Hours

122. EXPERIMENTAL PSYCHOLOGY

A theoretical and empirical study of the experimental method in psychology. Students are expected to conduct and evaluate experiments in learning, transfer, forgetting, problem solving, and reaction speed. Two class sessions and one two-hour laboratory. Alternate years. Spring 1968.

3 Hours

EDUCATION

AREA A Six hours from this area are required for either elementary or secondary teachers.

62. DEVELOPMENTAL PSYCHOLOGY (See Psychology)

107. GUIDANCE

A study of techniques for understanding the individual, the basic principles of guidance, and their application to the individual, and the organization of the guidance program. Particular emphasis will be given to the role of the teacher in the guidance program. Fall 7:30 M-F. Teaching block.

3 Hours

116. EDUCATIONAL PSYCHOLOGY

A study of the origins, growth, and maturity of human behavior as it relates to the teacher's job in the classroom. Emphasizes types, theories, and methods of learning; also includes related problems of the classroom teacher. Fall 8:30 M-F. Teaching block.

3 Hours

144. NON-TYPICAL CHILD

A basis for the understanding and adjustment of educational problems of elementary school children who show exceptional characteristics such as mental retardation, giftedness, subject disabilities, speech disorder, blindness, deafness, behavior problems, and delinquency. Spring 1:30 M-W-F, alternate years, offered 1968.

3 Hours

AREA B Six hours from this area are required for either elementary or secondary teachers.

100. PRINCIPLES OF ELEMENTARY EDUCATION

An orientation to fundamental issues, ideas, and concepts regarding the education of children of elementary school age and a study of the objectives, subject matter, and organization of elementary education for teaching. Spring 11:30 M-W-F.

3 Hours

115. INTRODUCTION TO EDUCATION

An orientation to teaching with stress upon planning for a career in teaching as a profession with the consideration of the teacher's role in his profession and in society; a study of the present organization of the American public school system, and the legal aspects of such problems as certificates, contracts, retirement, school aid, and taxation. Fall 11:30 M-W-F, and Spring 10:30 M-W-F.

3 Hours

135. HISTORY AND PHILOSOPHY OF EDUCATION

The essential educational philosophies and their development with special emphasis on the development of the American education system. Spring
3 Hours

145. SECONDARY SCHOOLS

A study of aims and objectives and the organization of American secondary education with emphasis on principles of secondary education including the teacher's responsibility in the modern secondary school program. Fall. 10:30 M-F Teaching Block 3 Hours

AREA C. Eight hours from this area are required from either elementary or secondary teachers. The State of Kansas requires that at least five of these hours be in Supervised Student Teaching.

111. THE TEACHING OF READING

A study of the methods of teaching reading in the elementary grades, a course which is part of the elementary block for seniors. Fall. 10:30 M-F Teaching Block

112. THE TEACHING OF READING IN THE JUNIOR AND SENIOR HIGH SCHOOL

A study of the methods of teaching reading at the upper elementary, junior and senior high school levels. Special emphasis is given to the reading skills that are needed at this level. The job of the remedial teacher in this area is considered. Spring. Evening School, alternate years, offered 1960. 3 Hours

131. LANGUAGE ARTS METHODS (Elementary)

A study of aims, methods, and materials for teaching the English language arts in the elementary school. Spring. Evening School, alternate years, offered 1968. 2 Years

132. METHODS OF TEACHING INDUSTRIAL ARTS

A study of industrial arts instructional methods, class control, teaching aids, laboratory safety, and the handling of equipment and supplies. Spring. 7 to 11:30 2 Hours

143. LANGUAGE ARTS METHODS (Secondary)

A study of aims, methods, and materials for teaching the English language arts in the secondary school with optional units on the teaching of foreign languages. Spring, alternate years, offered 1968. 3 Hours

134. METHODS OF TEACHING THE SOCIAL SCIENCES

A course designed to meet the needs of those who will be teaching social studies in elementary or secondary schools. Emphasis is placed on the materials, sources, and techniques that are most useful and stimulating in a classroom situation. Summer on demand. 1 to 3 Hours

153. SUPERVISED STUDENT TEACHING IN THE ELEMENTARY SCHOOL

Seniors who are qualifying for degree elementary certificates will participate in the elementary educational block program which allows them to do observing and teaching under an elementary school supervisor in the city of McPherson and towns of the surrounding area all day for a period of nine weeks. Prerequisite: six hours in the Education Department. Fall. M-F by appointment, weekly conference. 2-8 Hours

155. SUPERVISED STUDENT TEACHING IN THE SECONDARY SCHOOL

Students observe and do actual teaching on a full-day basis for nine weeks under the guidance of supervising teachers in the secondary schools of the city of McPherson and towns of the surrounding area. Prerequisite: six hours in the Education Department. Fall. M-F, by appointment, weekly conferences. 2-8 Hours

156. AUDIO-VISUAL EDUCATION

A study of the purpose and effectiveness of audio-visual methods, the types of audio-visual materials and equipment suitable for use in elementary and secondary schools, and the best means of procuring, preparing, and maintaining audio-visual materials. Summer and on demand. 3 Hours

157. NEW INSTRUCTIONAL METHODS AND MATERIALS

A workshop which introduces the more recent materials and machines in the audio-visual field and the more effective ways of using them. Summer on demand. 1 Hour

158. METHODS OF TEACHING PHYSICAL EDUCATION (Secondary School)

A study of the teaching techniques and analysis of the fundamental skills of the individual and team sports. Prerequisites: four hours of activity courses or permission of the instructor. Spring (12:00 T-Th.), alternate years, offered 1969. 3 Hours

159. METHODS IN TEACHING RECREATIONAL SPORTS

This course includes practice for development of skills, a study of rules, teaching methods and the officiating in recreational sports. Fall (9:30 M-W-F). 3 Hours

161. WORKSHOP IN THE PHYSICAL FITNESS OF THE ELEMENTARY SCHOOL CHILD

A workshop providing the teacher with an understanding of the elements of physical fitness, an understanding of progress for the development and improvement of physical fitness based on individual differences. Summer on demand. 1 Hour

163. AEROSPACE EDUCATION WORKSHOP

A workshop introducing the participating teachers to basic concepts of air and space travel and to recent developments in this field. Aerospace implications for our culture, economy, and world are pursued. Summer on demand. 2 Hours

165. THE TEACHING OF MODERN MATHEMATICS

A workshop designed to introduce teachers to the newer concepts in the elementary mathematics field. Content and methods of teaching will be considered. Summer on demand. 1 Hour

166. THE TEACHING OF MODERN MATHEMATICS (Advanced)

This workshop will be open to students who have earned credit in workshop 165, The Teaching of Modern Mathematics or a similar introductory course. It is designed to give greater depth of understanding and knowledge in the field of modern mathematics. Summer on demand. 1 Hour

167. SPECIAL EDUCATION WORKSHOP: TEACHING THE RETARDED PUPIL.

A workshop emphasizing procedures for teaching the retarded pupil in the regular classroom. Problems, methods, and materials are considered. Summer on demand. 1 Hour

168. SPECIAL EDUCATION WORKSHOP: TEACHING THE GIFTED CHILD

A workshop emphasizing procedures for teaching the gifted child in the regular classroom. Problems, methods, and materials are considered. Summer on demand. 1 Hour

169. WORKSHOP IN KINDERGARTEN METHODS

Taught especially for the kindergarten teacher, this workshop will be concerned with the philosophy of education at this level. The latest methods and materials will be discussed and demonstrated. Summer on demand. 1 Hour

170. METHODS OF TEACHING THE NATURAL SCIENCES

A study of methods and materials for biological and physical science instruction at the secondary level. Consideration of recent curriculum studies in biology, chemistry, and physics. Spring, alternate years, offered 1962. 2 Hours

172. WORKSHOP ON SPEECH IMPROVEMENT

A workshop emphasizing methods and techniques of speech correction to aid the elementary classroom teacher in helping children to achieve adequate speech. Summer on demand. 1 Hour

173. WORKSHOP: THE PSYCHOLOGY OF LISTENING

This workshop will explore the psychological bases for listening, the significant elements involved in listening habits, and instructional procedures for the classroom teacher. 1 Hour

174. READING WORKSHOP

The diagnosis and treatment of remedial reading problems. An intensive study is made of diagnostic procedures. Summer on demand. 1 Hour

175. READING WORKSHOP

A workshop dealing mainly with improving reading instruction in the regular classroom. Recent research, trends in teaching, and newer materials are presented. Summer on demand. 1 Hour

176. DRIVER EDUCATION INSTRUCTOR'S COURSE

A course designed to train secondary teachers in the organization and administration of driver training in the high schools. Emphasis is placed on classroom activities, practice driving instruction and techniques, and driver testing devices and other training aids. Actual instruction experience in an automobile is provided. (This course does not apply toward an education major.) Alternate summers, 1967. 6 Hours

177. LANGUAGE AND LINGUISTICS

This workshop will deal with basic concepts of Linguistics and Language and the relationship between Linguistics and the teaching of language, English or foreign. Topics of particular interest to participants will be discussed. Summer on demand. 1 Hour

184. PUBLIC SCHOOL MUSIC METHODS

A study of the theory and practice of public school music as related to methods and materials for music teaching at elementary and secondary levels. Course designed for music majors. Spring 1, 30-3:00 T-Th, alternate years, offered 1967-68. 3 Hours

187. SEMINAR IN METHODOLOGY OF TEACHING

A seminar dealing with methods of teaching at the secondary level. Spring 8:00 T-Th. 2 Hours

AREA D. Special courses for both elementary and secondary teachers. Elementary teachers are required to elect four hours beyond those specified under A, B, and C above; these four hours may be chosen from appropriate courses in areas A, B, C, and D.

189. PROBLEMS IN EDUCATION OR PSYCHOLOGY

Advanced study of special topics in education or psychology. Prerequisite: consent of instructor. By appointment. 1-3 Hours

TEACHER EDUCATION: Students wishing to qualify for any teaching certificate must be approved by the Teacher Education Committee. Approval will be granted only upon the presentation of satisfactory evidence of teaching aptitude, physical fitness, scholarship, personality, and character. Consideration will not be given the applicant if his grade-point average is below 2.2 or if he has failed to pass the English Proficiency Examination.

The Teacher Education Committee, which receives all applications to the Teacher Education Program, is composed of the Dean of Academic Affairs, the Registrar, two members of the Education Department, and four members appointed annually by the President of the College to represent other departments. Application forms for the program can be obtained from the Head of the Department of Education at the time of registration for the junior year. The completed forms should be returned to the department head.

An excellent learning situation is provided for student teaching both in the schools of the city of McPherson and towns of the surrounding area.

Student teaching is done in a "block" of time. Those students who are assigned schools outside McPherson are urged to move into the community and take part in its activities the same as local teachers. Students not only observe methods in teaching and the demonstration and use of modern equipment and teaching materials, but also assume responsibility in the area of extracurricular activities.

Requirements and Suggestions for Teachers

GENERAL REQUIREMENTS FOR TEACHERS: Only those who have been trained in elementary education shall be permitted to teach in the elementary school; certificates issued to secondary teachers are valid only for teaching at the secondary level.

McPherson College will declare itself to be the "parent institution" for a teacher making application for or a request for renewal of a Kansas Teachers' certificate only after the completion of eight semester hours of work at McPherson College. At least six of the last nine hours appearing on the transcript must have been earned at McPherson College.

McPherson College will not normally declare itself to be the parent institution for the graduate of another college. An exception may be made in the case of the graduate of another institution who has accumulated 12 hours of credit at McPherson after graduation from the other institution.

Elementary candidates must declare their teaching level—primary, middle grades, or upper elementary grades and junior high—as early as possible in their college work. The program for this level must then be met before a student will be recommended for a certificate. Students that prepare for the upper elementary grades will need to choose an area of concentration. Ask the Education Department for additional information.

REQUIREMENTS FOR EITHER THE DEGREE ELEMENTARY CERTIFICATE OR THE DEGREE SECONDARY CERTIFICATE

General Education—50 semester hours of general education and liberal arts courses including

- | | |
|---|-----------|
| a. Oral and written communications, literature and foreign languages | (2) hours |
| b. The natural sciences and mathematics | 2 hours |
| c. History and the social and behavioral sciences | 2 hours |
| d. Electives from the above and/or from religious education, philosophy, and art and music, history, literature, and appreciation | (4) hours |

Professional Education—both elementary and secondary teachers must have a minimum of

- | | |
|------------------------------|---------|
| Courses selected from Area A | 6 hours |
| Courses selected from Area B | 6 hours |
| Courses selected from Area C | 6 hours |

ELEMENTARY TEACHERS MUST HAVE THE FOLLOWING IN ADDITION TO THE GENERAL EDUCATION AND PROFESSIONAL EDUCATION REQUIREMENTS

- | | |
|--|------------------|
| Hours of electives in professional education courses | 4 hours |
| Specialized Content Courses | Minimum 17 hours |

These nonprofessional courses are specifically designed to supply content appropriate for elementary school instruction. Selection may be made from the following for which course description may be found in the appropriate departmental listings or in the Education Department.

- Art Education
- Children's Literature
- Music in the Elementary School
- Principles of Arithmetic
- Science in the Elementary School
- Principles of Geography
- Physical Education in the Elementary School
- School Health
- Recreation Leadership
- Arts and Crafts
- Workshops of various types

Suggested Program for Degree Elementary Teachers

FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Written Communications	1	Written Communications	3
Philosophy and Religion or Language	3-5	U.S. Government or History	3
Physical Education in the Elementary School or Art Education	3	General Psychology	3
Physical Science	1	Children's Literature	3
Oral Communications	2	Bible or Language	1-5
		Physical Education	1
Total	15	Total	16-18

SOPHOMORE YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
Literature or Language	3	Literature or Language	3
Sociology	1	Science	1
Biology	1	Geography	1
*Principles of Arithmetic and/or Music in the Elementary School or Electives	6	Elementary Economics	1
		School Health, Art, Music, etc.	1
Total	16	Total	16

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
*Introduction to Education	3	*Introduction to Education	3
Electives	14	*Principles of Elementary Education	3
		Developmental Psychology or Nontypical Child	3
Total	17	Electives	6
		Total	15

JUNIOR YEAR

<i>First Semester</i>		<i>Second Semester</i>	
	<i>Hours</i>		<i>Hours</i>
*Supervised Student Teaching	6	Developmental Psychology or Nontypical Child	3
*Educational Psychology	3	Electives	13
*Guidance	3		
*Instruction Methods	3	Total	16
Total	15		

*Starred courses indicate the required courses.

Suggested Curriculum in Teacher Education for Secondary School Teachers

Students planning to teach at the secondary level will normally major in an academic area which offers a teaching field. The sequence of courses as outlined by that department for those planning to teach should be followed. In addition, the student will want to follow the suggested sequence of professional education courses listed below.

SENIOR YEAR

First Semester

Introduction to Education

Second Semester

Two hours from Area "C" during the junior year

Introduction to Education

History and Philosophy of Education

SENIOR YEAR

First Semester

Secondary Block

Suggested Field Combinations for High School Teachers. Most high school teachers, with the possible exception of those who teach in the larger high schools, are required to teach in two or more subject matter fields. While the student in training cannot be told precisely what combinations would be most desirable in every case, certain logical relationships between subject matter fields do exist and the student is advised to give these combinations very careful consideration. Both logic and current practice suggest the following combinations:

English with language, fine arts, or social studies.

Foreign language with English, social studies, or fine arts.

Mathematics with science, social studies, commerce, physical education, or industrial arts.

Science with mathematics, industrial arts, or physical education.

Home economics with English, social studies, or science.

Industrial arts with physical education, mathematics, science, or social studies.

Commerce with social studies, English, mathematics, or physical education.

Music with English, or social studies.

Art with English, music, or home economics.

Physical education with social studies, science, or industrial arts.

Certification in States Other Than Kansas. Requirements for certification to teach in the public schools, either elementary or secondary, may vary slightly from state to state. In view of this fact, any students who plans to qualify to teach in another state than Kansas should, when he first enrolls, consult the head of the department in order to make sure that he is enrolled in a program that meets the particular requirements of the state involved. The College can qualify teachers for any state.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Requirements for a major: a minimum of twenty-eight semester hours, including courses 61, 100, 105, 181, 173 or 174, 52 or 41, 41 or 150 (women); 150 (men). A maximum of four hours earned in activity courses will apply toward the 28-hour major requirement.

Related supporting courses required are Biology 52, and Physics 1 or Physical Science 1. Biology 61 is recommended.

The following are coeducational physical courses:

7. ARCHERY

The study and practice of the rules and techniques. Fall 11:00 M-W, First nine weeks. 1/2 Hour

12. BADMINTON

The study and practice of the rules and techniques. Fall 11:00 M-W, Second nine weeks. 1/2 Hour

8. GOLF

The study and practice of the rules and techniques. Fall 12:00 T-Th, First nine weeks. Students must have a minimum of three clubs: wood, iron, putter. 1/2 Hour

9. BOWLING

The study and practice of the rules and techniques. Fall 12:00 T-Th, Second nine weeks. A fee of \$3.00 is additional. 1/2 Hour

10. TENNIS

The study and practice of the rules and techniques. Fall 12:00 T-Th, Second nine weeks. Spring 10:30 M-W, Second nine weeks. 1/2 Hour

10. TRACK AND FIELD

A practical introduction to track and field skills with participation in the events. Spring 10:30 T-Th, Second nine weeks. 1/4 Hour

11. BEGINNING SWIMMING

A study and practice of the basic skills in swimming and water safety. Fall or spring 12:00 T-Th. 1 Hour

61. SENIOR LIFE SAVING

A study and practice of the skills in life saving as outlined by the American Red Cross. A student should have basic knowledge and skill in the four basic strokes: elementary back stroke, side stroke, crawl, and breast stroke. Spring 1:00 T-Th. 1 Hour

17. FUNDAMENTAL DANCE FORMS

Included are basic skills in folk, square, and social dancing. Fall 1:30 T-Th, alternate years, offered 1968-69. 1 Hour

18. GYMNASTICS AND TUMBLING

Instruction in tumbling and apparatus work including the horizontal bar, parallel bars, trampoline, horse, and rope. Spring 9:30 M-W. 1 Hour

110. CREATIVE (MODERN) DANCE

A study and practice of the skills in the art form concerned with the communication of idea or feeling through the medium of movement. Spring 11:30 M-W-F, alternate years, offered 1967-68. Prerequisite: course 17, or consent of instructor.

The following are *activity* courses for men only.

21. WEIGHT TRAINING

An introduction to weight training, including isometric, rowing, and a combination of these two methods of strength development. Spring 11:30 T-Th. First nine weeks. 1/2 Hour.

1. GENERAL PHYSICAL EDUCATION

A study and practice of football, handball, and volleyball skills. Fall 8:00 T-Th. 1 Hour.

2. GENERAL PHYSICAL EDUCATION

A study and practice of badminton, tennis, and track and field events. Spring 8:00 T-Th. 1 Hour.

20. PHYSICAL FITNESS

Participation in calisthenics designed to emphasize physical fitness. Fall or Spring 6:50 to 7:10 M-T-W-Th-F. 1 Hour.

13, 23. FIELD FOOTBALL

One season of continuous participation in varsity football. Prerequisite: one season participation in football prior to enrollment. Fall 5:00-7:00 M-F, September-November. 1 Hour.

14, 24. COURT BASKETBALL

One season of continuous participation in varsity basketball. Prerequisite: one season participation in basketball prior to enrollment. Spring 3:00-6:00 M-F, December-February. 1 Hour.

16, 26. PRACTICAL TRACK AND FIELD

One season of continuous participation in varsity track and field. Prerequisite: one season participation in track and field prior to enrollment. Spring 3:00-6:00 M-F, March-May. 1 Hour.

The following are *activity* courses for women only.

3. FIELD SPORTS

A study and practice in the rules, techniques, and strategy of soccer and speedball. Fall 1:30 T-Th, First nine weeks, alternate years, offered 1967-68. 1/2 Hour.

4. BASKETBALL

A study and practice in the rules, techniques, and strategy. Fall 7:30 T-Th. Second nine weeks, alternate years, offered 1967-68. 1/2 Hour.

6. VOLLEYBALL

A study and practice in the rules, techniques, and strategy. Spring 11:30 M-W, First nine weeks, alternate years, offered 1967-68. 1/2 Hour.

22. SOFTBALL

A study and practice in the rules, techniques, and strategy. Spring 11:30 M-W. Second nine weeks, alternate years, offered 1967-68. 1/2 Hour.

15. MOVEMENT PRINCIPLES

Physical fitness, weight control, posture, body mechanics. Fall (12:00 T-Th), second nine weeks. Spring (10:30 MW) - First nine weeks. 1 1/2 Hours

The following are credit optional activity courses:

12. TRACK AND FIELD EVENTS

The fundamentals and skills of track and field events and the methods of coaching them. Spring (12:00 T-Th) - alternate years, offered 1967-68. 2 Hours

31. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

A study of directed play and physical education activities for the elementary school child. Fall (1:30 M-W-F) - 1967-68. Spring (1:30 M-W-F) - 1968-69. 3 Hours

32. SCHOOL HEALTH EDUCATION

A study of the health problems of the individual school child and his environment and curriculum for elementary teachers. Spring (8:30 M-W-F) - alternate years, offered (1968-69). 3 Hours

41. PERSONAL AND COMMUNITY HEALTH

A foundation course in personal care of the body and the laws of healthful living. Not open to those having had Family Health or its prospective Home Economics majors. Fall (10:30 M-W) - alternate years, offered 1967-68. 2 Hours

61. FIRST AID

A study of diagnosis and treatment of all emergency physical needs of the human body. Fall (10:30 T-Th) - Spring (8:30 T-Th). 2 Hours

62. SAFETY

A study of the safety problems in modern society - alternate summers. Offered 1967. 1 Hour

140. ANATOMY AND KINESIOLOGY

A study of the science of human motion based on anatomic, physiologic, and mechanical principles. Spring (1:30 M-W-F) - alternate years, offered 1967-68. 3 Hours

160. CARE AND TREATMENT OF ATHLETIC INJURIES

Emphasis on prevention, care, and cure of injuries incurred in the major athletic sports. Prerequisite: First Aid (61). Spring (8:30 T-Th) - alternate years, offered 1967-68. 2 Hours

165. HISTORY, PHILOSOPHY, & PRINCIPLES OF PHYSICAL EDUCATION

A survey of the major historical events which have influenced the development of the physical education profession; a study of the basic philosophies and their resulting effects on trends in physical education; a critical review of accepted principles of the profession. Fall (10:30 M-T-W-Th-F) - alternate years, offered 1968-69. 4 Hours

173. RECREATION LEADERSHIP

A study and practice of the skills required in leading recreation. Fall (12:30 M-W-F). 3 Hours

174. **CAMP LEADERSHIP**

A study and practice of the skills used in camping. Though the course is designed primarily for leaders in church camping, most activities are applicable to all types of camping. Those taking the course for three hours may do a special study in Outdoor Education, or a related subject of choice. Spring 10:30 TTh 2 Hours

181. **ORGANIZATION AND ADMINISTRATION OF THE PHYSICAL EDUCATION PROGRAM**

The complete study of organization and administration of a public school physical education program. Fall 8:30 MWF 3 Hours

182. **TESTS AND MEASUREMENTS IN HEALTH AND PHYSICAL EDUCATION**

A study of the methods used in finding the status and status of students in health and physical education. Tests and measurements of physical fitness, social efficiency, motor and physical skills are included, as well as techniques in knowledge testing. Fall 3:30 MWF; alternate years offered 1968-69 3 Hours

189. **PROBLEMS IN HEALTH, PHYSICAL EDUCATION, AND RECREATION**

Study of special topics and problems in the department. Prerequisite: consent of instructor. By appointment. 3 Hours

The following are *theory* courses for MEN ONLY

54. **BASEBALL**

The fundamentals of playing and the methods of coaching baseball. Spring 10:30 TTh; alternate years, offered 1967-68 2 Hours

55. **FOOTBALL**

The fundamentals of playing and the methods of coaching football. Fall 8:00 TTh; alternate years, offered 1968-69 2 Hours

56. **BASKETBALL**

The fundamentals of playing and the methods of coaching basketball. Spring 10:30 MW; alternate years, offered 1968-69 2 Hours

57. **MECHANICS AND TECHNIQUES OF OFFICIATING**

A course in which actual officiating of regular games in football and basketball will be required. Fall 8:00 TTh; alternate years, offered 1967-68 2 Hours

159. **METHODS IN TEACHING RECREATIONAL SPORTS**

See Education and Psychology. Fall 9:30 MWF 3 Hours

The following is a *theory* course for women

158. **METHODS OF TEACHING PHYSICAL EDUCATION (Secondary School)**

See Education and Psychology. Prerequisite: four hours of activity courses or permission of the instructor. Spring 12:10 TTh; alternate years, offered 1969 3 Hours

HOME ECONOMICS

A major in home economics may qualify a student for teaching home economics at the secondary level, for work as a home economics agent, or for work in various phases of business related to home economics. The professional major will qualify one for graduate study in either foods and nutrition or textiles and clothing. Homemaking as a profession is also given emphasis.

Requirements for a professional major. A minimum of 28 semester hours, including courses 3, 4, 15, 16, 31, 32, 116, 125, 126, 142. Supporting courses required: Chemistry 1, 54; Biology 2; Sociology 75; Psychology 62.

Requirements for a teaching major. A minimum of 37 semester hours which includes all of the course offerings in the department. Supporting courses required: Chemistry 1, 54; Biology 2; Sociology 75.

Suggested courses. Physical Education 80; Industrial arts 45 or 46, 53, 122; Music 20; Art 1, 8, 9.

3. DESIGN

A basic course in which a study is made of the principles of design: harmony, emphasis, proportion, and others. Experiences are provided for the student to become familiar in the use of line, shape, size, texture, and color as applied to daily living. Fall 10-30 T-Th 2 Hours

4. COSTUME DESIGN

Line, color, form, and texture as used in the designing and selecting of clothing related to the requirements of the individual. Prerequisite: Design or permission of instructor. Spring 30-30 T-Th 2 Hours

15. FOODS I

A study of the scientific principles of food cookery, elementary nutrition, and food economics. Class session 3 hours, laboratory 6 hours. Fall 9-30 M-W-F; Laboratories 1-30-1-20 T-Th 3 Hours

16. FOODS II

The planning, preparing and service of family meals and special occasion food services. Prerequisite: Foods I. Spring 9-30 M; Laboratory 1-30-4-20 T-Th 3 Hours

23. THE HOUSE

Emphasis is placed upon selection of floor plans and fundamental equipment of the house; financing the home, and the importance of the house to good family relationships. Fall 10-30 M-W-F, alternate years, offered 1968-69 3 Hours

24, 124. INTERIOR DESIGN

Principles of design as applied to the selection and arrangement of home furnishings for expressiveness; the material used, their structure and durability. Prerequisite: Design or permission of instructor. Spring 12-30 M-W-F, alternate years, offered 1968-69 3 Hours

31. TEXTILES

A study of the structure and finishes of fibers and yarns; the construction, design, selection, and care of fabrics as they relate to the consumer. Fall 17-30 T-Th 3 Hours

32. FUNDAMENTALS OF CLOTHING

Selection of clothing for the family; wardrobe planning; budgeting. Commercial patterns and principles of garment construction are given emphasis. One class session and five hours laboratory. Prerequisite: Textiles or permission of instructor. Spring 7:30 T-Th., 10:40-1:20 W. 3 Hours

116. FAMILY FINANCE

A study of some of the economic problems involved in efficient management of the family's financial resources and a consideration of the problems a consumer must face in purchasing present-day commodities. Spring 10:30 M-W-F., alternate years, offered 1968-69. 3 Hours

17, 117. FAMILY HEALTH

Factors conducive to family and community health; prenatal care of the child; home nursing procedures; and family procedures in working toward healthy personalities. Not open to those who have had Personal and Community Health. Fall 10:30 M-W-F., alternate years, offered 1967-68. 3 Hours

125. APPLIED DRESS DESIGN

The development of a foundation pattern from which a suitable flat pattern design is constructed for the individual; the construction of the garment. Six hours of laboratory. Prerequisite: Clothing 32 or consent of the instructor. Fall 1:30-4:20 MW. 2 Hours

126. TAILORING

The techniques of tailoring are taught in the construction of either a suit or coat. Six hours of laboratory. Prerequisite: Clothing 25 or consent of instructor. Spring 1:30-4:20 M-F., 2 Hours

142. NUTRITION

A study of the digestion, metabolism, and nutritive value of foods, the protein, mineral, vitamin, and energy needs of the human body. Prerequisite: Foods or consent of instructor. Spring 8:30 M-W-F., alternate years, offered 1968-69. 3 Hours

189. PROBLEMS IN HOME ECONOMICS

Advanced study of special topics in home economics. Prerequisite: consent of the instructor. By appointment. 1-3 Hours

INDUSTRIAL ARTS EDUCATION

Requirements for a major: a minimum of twenty-four semester hours, including courses 5, 7, 62, 33, 36, and 189 C.

Requirements for an educational major: a minimum of thirty-five semester hours, including courses 5, 6, 7, 37, 62, 63, 101, 106, 122, 132, 133, 141 and 161.

Related supporting courses: a minimum of ten hours selected from Mathematics and the Physical Sciences.

5. ENGINEERING: GRAPHICS I

An introduction to orthographic, isometric, oblique, and pictorial drawing, with emphasis placed on freehand sketching, auxiliary and sectional views, revolutions, use of instruments, drafting machines and aids, dimensioning, and lettering. One class session and four hours laboratory. Fall 10:30 T-F. 3 Hours

6. ENGINEERING GRAPHICS II

Manufacturing processes, design, detail and assembly drawing, screw threads and fasteners, jigs and fixtures, cams and gears; illustrative and reproductive methods and procedures. Maps and topographical rendering. Spring (10:30-1:00) T. 3 Hours

7. WELDING

A study of the basic welding processes, the theory, the physical principles and properties, inspection methods, and equipment. One class session and two hours laboratory. Fall (10:30-Th). 2 Hours

15. CRAFTS

Crafts experience provided in plastics, art metal and silver, wood carving, basketry, lapidary, and leather work. One class session and four hours laboratory. Fall and Spring (10:30-Th). 3 Hours

51. GENERAL METALS

An introduction to metals and metalworking processes used in sheet metal, bench metal, forging, and foundry. One class session and four hours of laboratory. Fall and Spring (7:30-Th). 3 Hours

60. PRACTICAL ELECTRICITY

A study of the fundamental principles of electricity and their application in the construction of electrical equipment. Two class sessions and two hours of laboratory. Fall (9:30-M). 3 Hours

62. WOODWORKING I

An introduction to woods, machine techniques, and fabrication methods involved from forest to finished product. Spring (7:30 and 8:30, M.W.F.). 3 Hours

63. WOODWORKING II

An involvement with woods, wood products, and joinery with emphasis on design. Fall (7:30 and 8:30, M.W.F.). 3 Hours

66. GENERAL MECHANICS

A study of the basic principles which apply to internal combustion engines and power transmission units. Precision measurement techniques, use of specifications, and adjustment procedures are emphasized. Two class sessions and two hours of laboratory. Spring (12:00-T,Th.). 3 Hours

101. INDUSTRIAL ARTS LABORATORY MAINTENANCE

A course which provides experience in the systematic maintenance of industrial arts classroom and laboratory equipment. Fall (M. evening, 6:00-9:00). 2 Hours

106. ADVANCED WOODWORKING

Woodworking techniques as related to assembly line furniture production, patternmaking, and building industries. Fall (1:30 and 2:30, M.W.F.). 3 Hours

122. ARCHITECTURAL DRAWING

All phases of home planning are included in this study. Typical problems covered are location, building codes, style, and finance. Results of the study culminate in a detailed set of house plans. Spring (9:30 M.W.F.), alternate years, offered 1967-68. 3 Hours

132. METHODS OF TEACHING INDUSTRIAL ARTS

(See Education.)

2 Hours

133. HISTORY AND PHILOSOPHY OF INDUSTRIAL ARTS

A study of the aims and objectives of industrial education from its early history (Pre 1870) to the present, including the philosophies of the founders. Special emphasis is placed on trends in industrial arts education and the review of current industrial education literature. Fall (7:30 T-Th) 2 Hours

141. WOOD AND METAL FINISHING

A technical study which introduces to the student the systematic approach to the choice of finishes, the methods of preparation and the application of finishes to industrial products, classroom or home projects. Spring (1:30 and 2:30 M-W-F) 3 Hours

158. ADVANCED WELDING

An advanced study of the conventional welding processes with additional work experiences provided in inert gas welding and automatic welding processes. Industry visitation tours are a part of this study. Fall (10:30 T) 1 Hour

161. METAL LATHE

All engine lathe operations are included in this study. In addition, this study serves as an introduction to the machine tool as a manufacturing medium, emphasizing precision measurement, standards, tolerance, time and motion study, and inspection methods. One class session and two hours of laboratory. Fall and Spring (7:30 T) 2 Hours

164. MACHINE TOOL OPERATIONS

An advanced study of machine tool theory. The student follows the machining of a useful product from blueprint to the finished product acquiring skill on all basic machine tools in the process. Prerequisite: I.A. 161. Spring (6:00-10:00 M, evening) 2 Hours

168. AUTO MECHANICS

An advanced study of the automobile emphasizing the diagnostic approach to unit servicing, preventive maintenance, the care and safe operation of the family automobile. Laboratory experiences are also provided in wear analysis and automotive machine shop. Spring (10:00 M-W-F) 3 Hours

170. METAL DESIGN WORKSHOP

A workshop emphasizing design in creating metal projects. Design principles, freehand sketching, and metal processes will precede welding steel assemblies, pouring aluminum sculptures, and developing experimental designs. Summer on demand. 2 Hours

189-190. PROBLEMS IN INDUSTRIAL ARTS

A study in depth of some area of industrial arts. The activity must be consistent with educational aims and objectives. Prerequisite: consent of the staff. Fall or Spring. By appointment. 1-3 Hours

AGRICULTURE AND RURAL LIFE

Requirements for a major: a minimum of twenty-four semester hours including 7, 22, 35 or 66, 133, 142, and 180.

Suggested supporting courses: Rural Sociology 30, Introductory Organic Chemistry 54, Physics 5-6, Botany 32, and Geology 104.

7 FARM CROPS

A study of the principles of crop production including classification, distribution, importance, and identification of the common field crops. Fall 7-10 MWF 3 Hours

9 POULTRY HUSBANDRY

A study of the selection, breeding, and judging of poultry with consideration of brooding, housing, and management practices. Two class sessions and two hours laboratory. Spring 9-30 MWF, laboratory 1-15-3-00 Th., alternate years, offered 1967-68. 3 Hours

22 ANIMAL HUSBANDRY

A general survey of the livestock industry with a study of market types, classes, and grades of livestock. Spring 7-30 MWF 3 Hours

24 JUDGING AND SELECTION OF LIVESTOCK

A study of type and form of beef cattle, swine, and sheep. Prerequisite: Animal Husbandry 22 or consent of instructor. Three hours of laboratory. Spring laboratory 1-30-1-20 T., alternate years, offered 1967-68. 1 Hour

25 DAIRY HUSBANDRY

A study of the dairy industry including selection and breeding of dairy cattle, herd improvement, and dairy-cattle management. Fall 11-30 MWF, laboratory 1-30-3-15 Th. 3 Hours

30 LANDSCAPE GARDENING

Application of the principles of landscape design to the development of city properties and farmsteads. Field trips are taken to well-landscaped homes in the immediate area. Spring 1-30 Th. Evening. 3 Hours

7 WELDING

See Industrial Arts.

66 GENERAL MECHANICS

See Industrial Arts.

118 ADVANCED JUDGING AND SELECTION OF LIVESTOCK

Comparative judging of market and breeding classes of livestock with emphasis on selection of breeding animals. Prerequisite: Judging and Selection of Livestock 24. Three hours of laboratory. Spring laboratory 1-30-1-20 T., alternate years, offered 1967-68. 1 Hour

121 AGRICULTURAL MARKETING

A study of the structure and organization of agricultural markets including principles of agricultural price determination, principles of cooperative marketing, and commodity marketing. Prerequisite: Economics 1. Fall 1-30 MWF, alternate years, offered 1968-69. 3 Hours

133. PRINCIPLES OF FEEDING

A study of the digestive system of domestic animals, the nutritive requirements for maintenance, growth, and reproduction, and the balancing of rations for the different classes of livestock. Prerequisite: Chemistry I or equivalent. Fall 8:30 M-W-F.; alternate years, offered 1968-69. 3 Hours

134. LIVESTOCK PRODUCTION

Feeding, breeding, and management practices involved in the production of beef cattle, swine, and sheep. Spring 8:40 M-W-F.; alternate years, offered 1968-69. 3 Hours

142. SOILS

Fundamental principles underlying the formation, fertility, and management of soils including physical, chemical, and biological properties. Prerequisite: Chemistry I or equivalent. Three class sessions and two hours laboratory. Fall 1:30 M-W-F., laboratory 1:30-4:15 P.; alternate years, offered 1967-68. 4 Hours

144. FARM ORGANIZATION

Application of economic principles to organization and management of the farm; use and analysis of farm records, budgeting, size of operation, choice of enterprises, types of farming, leases, and farm credit. Two class sessions and two hours laboratory. Spring 1:30 M-W-F., laboratory 1:30-4:15 P.; alternate years, offered 1968-69. 4 Hours

168. AUTO MECHANICS

See Industrial Arts.

180. SEMINAR

Restricted to seniors in Agriculture and Rural Life. Discussion and special assignments of topics in the field of agriculture with emphasis on recent developments as reported in current literature. Spring 1:40 M-W-F. 4 Hours

189-190. PROBLEMS IN RURAL LIFE

Advanced study of specific agricultural topics. Prerequisite: consent of instructor. By appointment. Per semester 1-4 Hours

SECRETARIAL SCIENCE

NOTE: The secretarial courses cannot be used to meet the twenty-four hour requirement for the economics and business administration major but can be used as elective credit.

11. ELEMENTARY TYPEWRITING

A course for students who have had no previous training in typewriting. The purpose is to obtain a working knowledge of the keyboard and to develop considerable speed. Fall 8:30 M-W-F. 3 Hours

12. ADVANCED TYPEWRITING

A course designed for students who wish to prepare for clerical or secretarial positions or for teaching typing. Prerequisite: course 11 or its equivalent. Spring 8:30 M-W-F. 3 Hours

13. ELEMENTARY SHORTHAND

A beginning course in Gregg shorthand in functional method. The aim is to develop an understanding of the basic principles of the shorthand system and to apply these principles to an extensive vocabulary. Transcription and dictation are required with a minimum speed of 60 words a minute. Fall (9-30 M.W.F.). 3 Hours

14. ADVANCED SHORTHAND

A course providing work in rapid dictation and transcription. A speed of from 110 to 120 words a minute is required. Prerequisite: course 13 or its equivalent. Spring (9-30 M.W.F.). 3 Hours

25-26. DATA PROCESSING

Theory of basic data processing machines: card punch, sorter, verifier, reproducer, collator, interpreter, calculator and accounting machine. Practice on the card punch. Theory is based primarily for IBM machines, but the principles are applicable to all brands of data processing equipment. An intensive four week practice session is available at The College of Automation, Des Moines, Iowa. The year (at Central College). Per semester 3 Hours

50. OFFICE MANAGEMENT

A study of the problem of office management—its importance, its functions, and the application of scientific principles to office work. Spring (at Central College). 3 Hours

51. PRODUCTION TYPENWRITING

The objective in this course is to train each student to produce with efficiency and speed typewritten work that would be acceptable in the most exacting business offices. Drills and practice to increase office production: letters, rough drafts, legal documents, tabulation, and business forms. Spring (at Central College). 3 Hours

53. ADVANCED DICTATION AND TRANSCRIPTION

Extensive work with dictation and transcription machines. Technical vocabularies of business and some of the professions will be covered. The emphasis in this course will be on increasing shorthand speed and meeting business standards in transcription. Prerequisites: Typewriting and Shorthand. Fall (at Central College). 3 Hours

54. SECRETARIAL PRACTICE AND PROBLEMS

The study of basic secretarial principles and procedures. Special techniques necessary in the highest secretarial positions are presented. Prerequisites: Typewriting and Shorthand or permission of the instructor. Spring (at Central College). 3 Hours

55. OFFICE MACHINES I

Instruction and practice in the use of ten-key and full-keyboard adding machines, rotary and printing calculators, comptometer, transcribing machines, and duplicating machines. Fall (at Central College). 3 Hours

BOARD OF TRUSTEES

Harold I. Mohler	Chairman
Ernest A. Peterson	Vice Chairman
Paul W. Sherfy	Secretary
R. Gordon Yoder	Treasurer

Term Expires 1967

Paul H. Bowman, Jr.	Merriam, Kansas
Earl J. Brubaker	Rocky Ford, Colorado
Donald R. Ferrve	Patota, Iowa
Ernest A. Peterson	Wichita, Kansas
Paul W. Sherfy	McPherson, Kansas

Term Expires 1968

Glenn N. Harris	Jennings, Louisiana
Ralph M. Hodgden	Ottawa, Kansas
S. G. Hoover	Plattsburg, Missouri
John K. Kough	Morgan Hill, California
Milton Morrison	Salina, Kansas
Clarence D. Sink	Waterloo, Iowa

Term Expires 1969

David Burger	Perreton, Texas
Wesley Darrow	Hutchinson, Kansas
Delbert Lewallen	Bisbee, North Dakota
Galen Myers	Denver, Colorado
Paul E. Sargent	McPherson, Kansas

Term Expires 1970

Milford Breghtly	Perison, Iowa
Edward R. Frantz	Wichita, Kansas
Winston K. Goering	Nampa, Idaho
Harvey C. Lehman	Lincoln, Nebraska
Harold I. Mohler	Warrensburg, Missouri
Royal Yoder	Conway, Kansas

Term Expires 1971

Quinter Bosseman	Peace Valley, Missouri
John D. Bower	McLouth, Kansas
Paul Jewell	Kansas City, Kansas
Berle Miller	Cedar Rapids, Iowa
Paul Rolston	Sheldon, Iowa
Herman H. Sudman	McPherson, Kansas

Ex Officio

- J. Jack Melhorn, President of McPherson College
 R. Gordon Yoder, Treasurer and Business Manager of McPherson College
 District Executive Secretaries of the McPherson College Area of the Church of the Brethren

Committees of the Trustees

Executive

R. Yoder, Chairman; Morrison, Vice Chairman; Sheriff, Secretary;
Brubaker, Frantz, Mohler, Peterson, Ex officio; Melhorn, G. Yoder

Buildings and Grounds

R. Yoder, Chairman; Beeghly, Boserman, Goering, Lewallen,
Robson, Sheriff, Ex officio; Melhorn, Flory, Parks

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Darrow, Chairman; Hodaden, Hoover, Lehman, Myers, Peterson,
Sink, Ex officio; Melhorn, Yingst, Albrecht

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Bowman, Chairman; Bower, Frantz, Harris, Kough, Miller, Mohler,
Ex officio; Melhorn, M. Frantz, Dell, Zook

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G. Yoder, Chairman; Brubaker, Burger, Forre, Jewell, Morrison,
Sargent, Sadman, Ex officio; Melhorn

Officers of the Administration

J. JACK MELHORN, A.B., B.D., M.A., LL.D.	President
MERLIN L. FRANTZ, A.B., M.Ed., Ed.D.	Dean of Academic Affairs
RAYMOND L. FLORY, B.S., A.M., Ph.D.	Dean of Student Affairs
KENNETH YINGST, A.B., B.D.	Director of Development
R. GORDON YODER, B.S.	Business Manager and Treasurer
PAUL WAGONER, A.B., B.D.	Associate Director of Development (Alumni Affairs and Church Relations)
GUY HAYES, A.B., A.M.	Director of Admissions
E. DEAN REYNOLDS, B.S.	Registrar
HAROLD Z. BOMBERGER, A.B., B.D., S.T.M., D.D.	Pastor, McPherson Church of the Brethren

Committees of the Administration and Faculty

1966-1967

ADMINISTRATIVE COMMITTEE: Melhorn, Frantz, Flory,
Miller, Yingst, Yoder (1 member elected by the faculty)

EDUCATIONAL POLICIES COMMITTEE: Frantz, Burkholder,
Flory, Olson, Reynolds, Rothrock, Stump, (Harris, ex officio)

- COMMITTEE ON STUDENTS** (Flory, Frantz, Miller, Robinson, Young, Klierwe)
 Associates: Residence Directors, Student Union Director, Student Council President
 Subcommittee: Student Union Board (Flory, Ray, Robinson, Yoder, Young, Student Council President, Student Union Director and four students elected by the Student Council)
- CONVOCATION, CHAPEL, AND RELIGIOUS LIFE COMMITTEE** Miller, Eiler, Flory, Rexler, Sollenberger, Student Council President, MCY Chairman, student, Bouchere
- ACADEMIC-ADMINISTRATIVE COUNCIL** Melbourn, Frantz, Burkholder (1967), Stump (1968), De Coursey (1969)
- LIBRARY COMMITTEE** Kenberry (Editor), Harry C. Hinkle, Banks, Lengel, A. Moore, Wallens
- ATHLETIC COMMITTEE** Ealey, Melbourn, Smith, Yoder, M. Club President, Shortz
- ADMISSIONS COMMITTEE** Reynolds, Busk, Burkholder, Frantz, Hayes, Keim
- SCHOLARSHIPS, GRANTS, AND LOANS COMMITTEE** Flory, Frantz, Hayes, Reynolds, Widrie, Yoder
- RETENTION COMMITTEE** Frantz, Flory, Reynolds and student-faculty advisors as needed
- TEACHER EDUCATION COMMITTEE** Kettback, Frantz, Coppock, Kenberry, Weiss, M. Hordhaids, Reynolds, van Asselt, (Haughn, ex officio)
- FACULTY STUDY AND PROGRAMS** Frantz, Burkholder, Coppock, Deal, De Coursey, van Asselt
 Subcommittee: Social Committee of the Faculty (De Coursey, Eriksen, Lee, Ray Regier, Suck, Vreck) (The chairman of this committee is a member of the Faculty Study and Program Committee.)
- Special Committee and Assignments:*
- AWARDS DAY** Frantz, Flory, Hayes, Rexler, Smith, Sollenberger, Marcellus
- COLLEGE HISTORY** Reichtel
- CULTURAL PROGRAM** Waunier, Coppock, Edwards, Jones, Miller, Yoder, a student
- FACULTY LOANS** Lengel (1967), Wallens (1968), Eiler (1969)

HOME COMING: Wagner, Hayes, Miller, Marcellus, President of Student Council and other persons as needed.

LIBRARY BUILDING COMMITTEE: Rothrock, Frantz, Harris, Kenberry, Lengel, Melhorn, Yoder.

PLACEMENT: Rothrock.

SCHEDULING OF BUILDINGS: Frantz, Flory, Yoder.

SCHEDULING OF COLLEGE CALENDAR: Flory, M. Holl.

SUMMER SESSION: Rothrock, Frantz, Hayes, Reynolds.

TELEVISION AND RADIO: Wagner, Marcellus, Melhorn.

NOTE: The president is a member (ex officio) of all committees.

COMMITTEE ON HIGHER EDUCATION

*College and Seminary Presidents
Church of the Brethren*

1966

C. N. Ellis	Huntingdon, Pennsylvania
Harold D. Fastnacht	La Verne, California
Wayne F. Geisert	Bridgewater, Virginia
A. Blair Helman	North Manchester, Indiana
Morley J. Mays	Elizabethtown, Pennsylvania
J. Jack Melhorn	McPherson, Kansas
Paul M. Robinson	Oak Brook, Illinois
S. Loren Bowman, Secretary	Elgin, Illinois

ADMINISTRATION, FACULTY AND STAFF 1966-67

J. JACK MELHORN, A.B., B.D., M.A., LL.D.

President of the College, Professor of Sociology (1965)*

A.B., Elizabethtown College, 1944; B.D., Yale University Divinity School, 1947; M.A., University of Southern California, 1950; LL.D., Elizabethtown College, 1965. Ph.D. Candidate in the field of sociology at the University of Southern California. Additional graduate work at Claremont Graduate School. Taught: Amos College, 1945-47; LaVerne College, 1947-65.

MERLIN L. FRANTZ, A.B., M.Ed., Ed.D.

Dean of Academic Affairs, Professor of Education and Psychology (1964, 1954)

A.B., McPherson College, 1943; M.Ed., University of Nebraska, 1953; Ed.D., University of Nebraska, 1959; National Science Institute, University of Iowa, summer, 1962. Taught: LaVerne College, 1954-59. Foreign Travel, 1946-48, 1966.

RAYMOND L. FLORY, B.S., A.M., Ph.D.

Dean of Student Affairs, Professor of History and Political Science (1950, 1947)

B.S., McPherson College, 1940; A.M., University of Kansas, 1942; Ph.D., University of Kansas, 1955. Taught: LaVerne College, 1963-64. Foreign Travel, Summers 1949, 1951, 1952, 1953, 1955, 1964.

KENNETH H. YINGST, A.B., B.D.

Director of Development (1963)

A.B., McPherson College, 1930; B.D., Bethany Theological Seminary, 1948.

R. GORDON YODER, B.S.

Business Manager and Treasurer (1953, 1946)

B.S., McPherson College, 1939. College Business Management Workshop, University of Omaha, summers, 1950, 1952.

KENNETH C. BECHTEL, A.B., B.D., M.Th., Ph.D.

Professor of Sociology and Language (1956, 1946)

A.B., Juniata College, 1925; B.D., Presbyterian Theological Seminary, 1931; M.Th., Bethany Theological Seminary, 1933; Ph.D., University of Chicago, 1937.

JESSIE BROWN, B.M.

Professor Emerita of Piano (1952, 1915)

Diploma, Bethany Conservatory, 1907; B.M., Bethany College, 1910; Royal Conservatory, Leipzig, Germany, 1913-14. Taught: Bethany College, 1908-13.

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

SARAH MAY BRUNK, A.B., A.M.

Associate Professor of English and Journalism (1955-1947)

A.B., McPherson College, 1942; Library School, Kansas State Teachers College, Emporia, summer, 1945; A.M., University of Kansas, 1952; Publications Workshop, Kansas State University, summer, 1962; State University of Iowa, summer, 1963; 1964-65.

JOHN H. BURKHOLDER, A.B., Ph.D.

Professor of Biology (1956-1952)

A.B., McPherson College, 1949; Ph.D., University of Chicago, 1954; Institute for Marine Biology, University of Oregon, summer, 1957; Institute of Cell Biology, University of Wisconsin, summer, 1959; Institute of Protozoology, University of California at Berkeley, summer, 1960; visiting Professor, Kansas State Teachers College, summers, 1963-64.

DORIS COPPOCK, A.B., M.A., Ph.D.

Professor of Physical Education for Women (1964-1950)

A.B., McPherson College, 1948; University of Kansas, summer, 1950; A.M., University of Iowa, 1953; Local Waring Music Workshop, 1957; Christman Ethical Workshop, 1957; University of Nebraska, summer, 1959; University of California at L.A., summer, 1961; Foreign Travel, summer, 1956; Ph.D., University of Iowa, 1961.

THOMAS W. DEAL, B.S., B.D., M.A.

Assistant Professor of Philosophy and Religion (1966)

B.S., Manchester College, 1960; B.D., Bethany Theological Seminary, 1963; M.A., Southern Illinois University, 1966.

WESLEY HE COURSEY, B.S., Ph.D.

Professor of Chemistry (1955-1952)

B.S., McPherson College, 1940; Ph.D., Iowa State University, 1953; Instructor, Iowa State University, 1946-52; National Science Foundation Workshop, Indiana University, summer, 1959; N.S.F. Research Institute, Kansas University, summer, 1960; N.S.F. Nuclear Science Institute, Washington State University, summer, 1964; N.S.F. Inorganic Institute, University of Minnesota, summer, 1965; Fulbright Lecturer, Jamia College, Karachi, Pakistan, and Tebriz University, Tebriz, Iran, 1965-66; Foreign Travel, summers, 1965, 1966.

SAMUEL MILTON DELL, B.S., M.S.

Professor of Industrial Arts Education (1937-1931)

B.S., McPherson College, 1926; Central Missouri State Teachers College, summer, 1927; M.S., Iowa State College, 1934; University of Chicago, summer, 1946; Northwestern University, summer, 1947; Kansas State University, summer, 1945-46; Foreign Travel, summers, 1952, 1955, 1965.

DENNIS A. DIRKSEN, A.B., M.S.

Assistant Professor in Industrial Arts Education (1965)

A.B., McPherson College, 1960; M.S., Kansas State Teachers College, Emporia, Kansas, 1961; Texas A and M University, Summers 1965-66; Utah State University, 1966-67.

ROBERT I. EDWARDS, B.M., M.M.

Assistant Professor of Piano and Organ (1961)

B.M., University of Wichita, 1946, M.M., University of Wichita, 1948
Ellen Bartel Stoeckel Scholarship, Yale, summer, 1948, University of
Southern California, summer, 1949 (young Instruction in Organ,
Wichita State University, 1965)**DAVID I. EILER, A.B., B.D.**

Assistant Professor of Philosophy and Religion (1962)

A.B., Manchester College, 1939, B.D., Bethany Theological Seminary,
1945, Princeton Theological Seminary, 1951-52**LESLIE FRALEY, JR., B.S., M.S.**

Assistant Professor of Physics (1965)

B.S., Ohio State University, 1957, M.S., Ohio State University, 1959

DONALD R. FREDERICK, B.S., B.D., M.M.Professor of Voice and Director of Choral Organizations (1956-
1946)B.S., Manchester College, 1939, B.D., Bethany Theological Seminary,
1946, Sherwood Music School, 1941-46, M.M., Northwestern Univer-
sity, 1950, Wichita State University, 1962-63**VERNON E. FRIESEN, A.B., M.S.**

Assistant Professor of Mathematics (1965)

A.B., Bethel College, Newton, Kansas, 1950, M.S., University of
Illinois, 1960, Case Institute of Technology, Cleveland, Ohio, sum-
mer, 1957, University of Arizona, Tucson, Arizona, summer, 1961,
University of Illinois, summer, 1962**VIRGINIA HARRIS, A.B., B.L.S., M.L.S.**

Librarian, Associate Professor (1961)

A.B., McPherson College, 1939, B.L.S., Louisiana State University,
1947, M.L.S., Louisiana State University, 1955**MYRTLE M. HAUGHN, A.B., B.S.I.S.**

Assistant Librarian, Assistant Professor (1966)

A.B., University of Kansas, 1955, B.S.I.S., University of Detroit,
School of Librarianship, 1962, University of Southern California, sum-
mer, 1947, 1949, University of California, Los Angeles, Extension
Class, spring, 1951, University of Wichita, Aerospace Education Work-
shop, 1964, Western State College of Colorado, Common Conservation
Education Workshop, 1963, McPherson College, Reading Re-
search Workshop, 1966**MAURICE A. HESS, A.B., A.M., Litt.D.**

Professor Emeritus of English and Latin (1957-1946)

Graduate, Cumberland Valley Normal, 1908, A.M., University of
Pennsylvania, 1917, University of Chicago, summers, 1900, 1903,
Litt.D., McPherson College, 1951**CORINNE N. HUGHBANKS, A.B., M.S.**

Assistant Professor of Languages (1966)

A.B., Ashland College, 1953, M.S., Kansas State Teachers College,
Emporia, 1966

MONROE HUGHBANKS, A.B., M.Ed.

Assistant Professor in Education (1964)

A.B., Adams College, 1952; Universidad Nacional de México, summer, 1956; M.Ed., Kansas State Teachers College, Emporia, 1961; Kansas State Teachers College, summer 1963, visiting consultant; Kansas State Teachers College, summer 1966; Foreign Travel, 1953-61, summers 1962

GILFORD J. IKENBERRY, JR., B.S., M.S., Ph.D.

Professor of Biology (1964, 1961)

B.S., McPherson College, 1952; M.S., Oklahoma State University, 1956; Ph.D., Iowa State University, 1959; Instructor, Iowa State University, 1957-59; Assistant Professor, Michigan State University, 1959-61; Visiting Professor, Kansas State Teachers College, summers, 1962-63-64-65

ROBERT S. JONES, B.S., M.M.

Assistant Professor in Music, Director of Bands and Orchestra (1964)

B.S., Arizona State College, 1961; M.M., University of Wichita, 1963; American Symphony Orchestra League Conducting Institute, 1966

ROBERT E. KEIM, A.B., B.D.

Assistant Professor in Sociology (1964)

A.B., McPherson College, 1949; B.D., Bethany Theological Seminary, 1953

JESSE D. KREHBIEL, A.B., M.S.

Associate Professor of Mathematics (1962, 1961)

A.B., Bethel College, 1952; M.S., Iowa State University, 1956; Wichita State University, summer, 1959; University of Kansas, summers, 1961, 1962; Oklahoma State University, 1965-67

SAI KWING LEE, B.S., M.S.

Assistant Professor of Chemistry (1964)

B.S., San Diego State College, 1959; M.S., University of California at Los Angeles, 1961

LELAND I. LENGEL, A.B., M.A.

Assistant Professor of History and Political Science (1963)

A.B., McPherson College, 1956; M.A., Drake University, 1962; University of Oregon, Teaching Fellowships, 1961-63

BURTON METZLER, A.B., B.D., Th.B., Ph.D.

Professor Emeritus of Philosophy and Religion (1964, 1937)

A.B., Manchester College, 1920; B.D., Bethany Theological Seminary, 1921; Th.B., Princeton Theological Seminary, 1924; Ph.D., Southern Baptist Theological Seminary, 1928; Taught: Manchester College, 1927; Bethany Theological Seminary, 1925-33

WAYNE L. MILLER, A.B., M.S., B.D., Ph.D.

Associate Professor of Speech, Philosophy and Religion, Director of Religious Life (1964)

A.B., Manchester College, 1940; M.S., Purdue University, 1950; B.D., Bethany Theological Seminary, 1954; Ph.D., University of Southern California, 1961

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

Professor Emeritus of Biology, Curator of the Museum, 1952-1973.
 A.B., Mt. Morris College, 1922; M.S., Kansas State College, 1931;
 University of Wisconsin, 1926; University of Kansas, summer, 1930;
 Seminar, National University, Mexico City, 1929; Sc.D., LaVerne
 College, 1931.

ALMA ANDERSON MOORE, A.B., A.M.

Assistant Professor in Speech and English, 1966.
 A.B., McPherson College, 1921; A.M., University of Southern California,
 1936.

OSCAR A. OLSON, B.S., A.M., Ph.D.

Professor of Economics and Business Administration, 1939.
 B.S., Northern State Teachers College, South Dakota, 1918; A.M.,
 University of Iowa, 1932; Ph.D., University of Iowa, 1939; University
 of Colorado, summer, 1940; Economics in Action Program, University
 of Wisconsin, summer, 1956; Seminar in Financial Institutions, University
 of Kansas, summer, 1962; Taught, DePue University, 1933-35.

ARTHUR E. RAY, B.S., M.S.

Assistant Professor in Physical Education, Head Track Coach,
 Assistant Football and Basketball Coach, 1966.
 B.S., Fort Hays Kansas State College, Hays, 1964; M.S., Fort Hays,
 Kansas State College, Hays, 1962.

ARLIE J. REGIER, B.S., M.E.

Assistant Professor of Industrial Arts, 1966.
 B.S., Bethel College, 1953; M.E., Colorado State University, 1961.

LOREN D. REYHER, A.B., M.A.

Assistant Professor in English, Theatre, 1961.
 A.B., Adams State College, 1961; M.A., Adams State College, 1961.

MARY ANN ROBINSON, B.S., M.A.

Dean of Women, Assistant Professor of Art, 1963, 1965.
 B.S., Kansas State University, 1953; M.A., McCormick Theological
 Seminary, 1955; University of Kansas, 1948; D., Kansas State Teachers
 College, Emporia, summer, 1963; University of Mississippi, summer,
 1962; Wichita State University, summer, 1961; Foreign travel, sum-
 mers, 1958, 1963.

DAYTON G. ROTHROCK, A.B., M.Ed., Ed.D.

Professor of Education and Psychology, 1962, 1956.
 A.B., McPherson College, 1947; University of Colorado, summer, 1948;
 M.Ed., University of Nebraska, 1951; Ed.D., University of Nebraska,
 1961.

MILDRED M. SIEK, B.S., M.S.

Professor of Home Economics, 1913.
 B.S., McPherson College, 1915; M.S., University of Wisconsin, 1943;
 Kansas State College, 1910; Kansas State Teachers College, Pittsburg,
 summer, 1955; Columbia University, summer, 1956; University of
 Denver, summer, 1957; Kansas State University, summer, 1962; Uni-
 versity of Hawaii, summer, 1961; Foreign Travel, summers, 1958,
 1960; University of Tennessee, summer, 1966.

SIDNEY L. SMITH, A.B.

Associate Professor and Director of Athletics, Head Football Coach
(1966, 1953)

A.B., Kansas Wesleyan University, 1916; Ft. Hays State College, summer, 1936; Colorado State College of Education, summer, 1942; Adams State College, summers, 1947, 1948; Colorado College, summer, 1949; Montana State University, summer, 1953; Concordia College, summer, 1960.

PAUL V. SOLLENBERGER, A.B., M.M.

Associate Professor of Music Theory and String Instruments (1962,
1951)

Shawwood Music School, 1946; A.B., McPherson College, 1947; Northwestern University, summers, 1947, 1948; M.M., University of Wichita, 1961.

HARLEY STUMP, A.B., M.Ed., B.D., Ph.D.

Professor of English (1962, 1957)

A.B., Southwestern State College, Oklahoma, 1934; M.Ed., University of Oklahoma, 1952; B.D., Bethany Theological Seminary, 1954; Ph.D., University of Oklahoma, 1964. Taught: Bethany Training School, 1952-54; Eastern New Mexico University, summer, 1960.

JAN VAN ASSELT, B.S., M.A., Ph.D.

Associate Professor of German and Linguistics (1965)

B.S., McPherson College, 1956; M.A., University of Colorado, 1958; Ph.D., University of California, 1965.

HANNILORE VEECK, Staatsexamen

Assistant Professor in Languages (1966)

Staatsexamen, Freie Universität, Berlin; Philipps Universität, Marburg, 1966.

JOHN K. WARD, B.S., M.S., Ph.D.

Professor of Agriculture and Rural Life (1964, 1956)

B.S., McPherson College, 1950; B.S., Kansas State University, 1954; M.S., Oklahoma State University, 1956; Ph.D., Kansas State University, 1961; University of Nebraska, 1966-67.

LORELI E. WEISS, A.B., B.D., M.A., B.D., Ph.D.

Professor of Sociology (1964)

A.B., LaVerne College, 1929; B.D., Bethany Theological Seminary, 1934; M.A., Claremont Graduate School, 1942; D.D., Bethany Theological Seminary, 1946; P.E.D., University of Southern California, 1957. Foreign travel, 1928, '96. Taught: LaVerne College, 1939-47, summers, 1952, 1953, 1957, 1958, 1959; Bethany Theological Seminary, occasional terms as visiting lecturer, 1948-51; Manchester College, summer, 1950; Idaho Institute of Christian Education, 1952-57.

DONALD WIDRIG, B.S., M.S.

Associate Professor in Physical Education, Head Basketball Coach
(1966, 1960)

B.S., McPherson College, 1959; M.S., Kansas State Teachers College, Emporia, 1962.

ALVIN E. WILLEMS, B.S., M.S.

Associate Professor in Industrial Arts Education, 1962-1970
 B.S., McPherson College, 1958; M.S., Kansas State University, 1961

LEWIS C. YOUNG, B.S., B.D., S.T.M., Ph.D.

Associate Professor of Psychology, Acting Director of Men, 1966
 B.S., Carroll College, 1954; B.D., 1954; (1954) Graduate School in Theology, 1957; S.T.M., Andover Newton Theological School, 1960; Ph.D., Boston University, Boston, 1965

*Part-time Instructional Faculty***JAMES S. BIRKBECK, B.S., M.S., Agricultural**

B.S., Kansas State University, 1963; M.S., Kansas State University, 1964

MAXINE BRUNSELL, A.B., M.S., Education

A.B., McPherson College, 1964; M.S., Kansas State Teachers College, Emporia, 1962

VERDA GROVE DeCOURSEY, B.S., Design

B.S., McPherson College, 1960; Lincoln State University, 1961; Washington State University, summer, 1961; Longhorn College, 1963

HARRY HECKETHORN, A.B., M.A., Mathematics

A.B., McPherson College, 1950; M.A., Washington University at St. Louis, Missouri, 1960; Western State College, Colorado, Colorado, summer, 1966

DWIGHT HILL, B.S., Accounting

B.S., Kansas State University, 1955

ELIZABETH JADERBORG, B.A., English

B.A., Keene State College, 1949; Wesleyan State University, 1951-1952; of New Hampshire, summer, 1952; Tufts University, Boston, 1953; A.B. Ex., 1958-59

LELAND MOORE, A.B., A.M., Economics

A.B., McPherson College, 1923; A.M., University of Southern California, 1936

MILDRED I. OLSON, B.S., Secondary Education

B.S., State University of Iowa, 1952

BETTE QUIRING, A.B., English

A.B., McPherson College, 1961; Kansas Agricultural Experiment Station, Wichita State University, summer, 1961

DELBERT SCHRAG, B.S., Agriculture

B.S., Kansas State University, 1960; Agricultural Education, 1964, Kansas State University

MARVIN SELBERG, M.B.A., Accounting

M.B.A., University of Chicago, 1946

ROBERT SMITH, Instructor in Art

Studied at Bethany College, 1961; Kansas University, summer 1962 and 1963; Kansas State University, 1963-64, 1964-65; Wichita State University, 1965-66, 1966on.

ROY UNRUH, A.B., M.A., Education

A.B., Bethel College, 1957; M.A., University of Minnesota, 1960.

SHEA WATSON, B.Music, M.S. Music

Bachelor of Music Education, University of Louisville, 1958; M.S., University of Illinois, 1959; Ph.D., Doctoral classwork completed, West Virginia University, 1961-63.

UNA RING YODER, A.B., M.A., Speech

A.B., McPherson College, 1954; M.A., Kansas State Teachers College, Emporia, 1959; Kansas State University, 1964-66.

GORDON ZAHRADNIK, B.S., M.S., Ceramics

B.S., Fort Hays Kansas State, 1955; M.S., Fort Hays Kansas State, 1958.

ADMINISTRATIVE ASSISTANTS AND STAFF

EARL M. FRANTZ, A.B., B.D., A.M., D.D.

Director of Capital Giving (1954-1963)

A.B., McPherson College, 1921; B.D., Bethany Theological Seminary, 1922; A.M., University of Chicago, 1931; D.D., McPherson College, 1953.

GUY HAYES, A.B., A.M.

Director of Admissions (1961-1970)

A.B., McPherson College, 1931; A.M., Colorado Agricultural and Mechanical College, 1941; University of Southern California, summers, 1955, 1958; Foreign Travel, 1953-56, summer, 1952, 1961; Europe, fall, 1965.

VERNON L. KLEWER, A.B., M.D.

College Consulting Psychiatrist (1965)

A.B., Talbot College, 1951; M.D., Northwestern University, 1955.

LAWRENCE W. MARCELLUS

Director of Publicity and Promotion (1966)

ALICE B. MARTIN, B.S.

Registrar Emerita (1965, 1968)

Kansas State Teachers College, Emporia, 1921-23, summer, 1925; B.S., McPherson College, 1938; University of Denver, 1955; College of the Pacific, summer, 1960; Foreign Travel, summer, 1955.

E. DEAN REYNOLDS, B.S.

Registrar (1961)

B.S., McPherson College, 1952.

PAUL W. SHERFY, B.S.

Assistant Business Manager (1967)

B.S., McPherson College, 1954.

PAUL WAGONER, A.B., B.D.

Associate Director of Development (1966-1975)

A.B., McPherson College, 1949; B.D., Bethany Theological Seminary, 1953.

BETTY J. BARCHESKY

Secretary to the Dean of Academic Affairs (1962)

KATHRYN BECHTEL, B.S.L.

Assistant in the Library (1961, 1974)

B.S.L., Bethany Theological Seminary, 1933.

ELIZABETH CHRISTENSEN

Director of Student Union (1962)

MELVIN CHRISTY, B.S.

Maintenance Engineer (1966)

B.S., McPherson College, 1949.

J. KEITH CLINE

Associate Superintendent of Buildings and Grounds (1959, 1966)

MARCIA COTTERILL

Manager of College Bookstore (1961) Summer Supervisor of Student Union

MIRIAM W. DELL, A.B.

Secretary to the President (1957, 1957)
A.B., McPherson College, 1925

J. HOWARD FRIES, A.B.

Manager of College Farms, Treasurer Emeritus (1953, 1956)
A.B., McPherson College, 1925

MARTIN K. HASLETT

Secretary, Office of Development (1967)

MYRNA HAUCK

Secretary to the Director of Admissions (1962)
Brown-Mackay School of Business, 1962

ANNA MAE HULL

Secretary, Office of Publicity and Alumni Affairs (1960)

FLORENCE HUTCHISON

Secretary to the Registrar (1966)

WILBUR H. LAUVER

Assistant in Buildings and Grounds (1961)

MABEL MARKHAM

Residence Director, Britinger Hall (1966)

FERN MILLER

Residence Director, Dozoni Hall (1965)

SHARON RISHEL

PBX Operator (1964)

ELMER RUISER

Superintendent of Buildings and Grounds (1959, 1957)

ELIZABETH RUSSELL

Residence Director, Fatmestock Hall (1961)

THELMA SHEETS

Assistant in the Business Office (1966)

JOYCE SHOBE

Assistant in the Admissions Office (1966)

ALMIRA E. SHULER

Residence Director, Kline Hall (1966)

LORETTA TIPTON, A.B.

Secretary to the Business Manager (1952)
A.B. McPherson College, 1952

MARGUERITE WESTFALL

Residence Director, Metzler Hall (1963, 1965)

VIOLA WILSON

Residence Director, Arnold Hall (1966, 1967)

ALICE R. WININGER

Assistant in the Business Office (1969)

ZORA ZIMBELMAN

College Nurse (1966)
R.N. Adams Hospital

J. KETHI CLINE

Associate Superintendent of Buildings and Grounds (1959, 1946)

MARCIA COTTERILL

Manager of College Bookstore (1961) Summer Supervisor of Student Union

MIRIAM W. DELL, A.B.

Secretary to the President (1947, 1951)
A.B., McPherson College, 1925

J. HOWARD FRIES, A.B.

Manager of College Farms, Treasurer Emeritus (1951, 1946)
A.B., McPherson College, 1927

MARIAN K. HASLETT

Secretary, Office of Development (1965)

MYRNA HAUCK

Secretary to the Director of Admissions (1962)
Brown-Mackie School of Business, 1962

ANNA MAE HULL

Secretary, Office of Publicity and Alumni Affairs (1960)

FLORENCE HUTCHINSON

Secretary to the Registrar (1960)

WILBUR H. LAUVER

Assistant in Buildings and Grounds (1961)

MABEL MARKHAM

Residence Director, Bunting Hall (1966)

FERN MILLER

Residence Director, Dotzner Hall (1965)

SHARON RISHEL

PBX Operator (1964)

ELMER RUISER

Superintendent of Buildings and Grounds (1959, 1957)

ELIZABETH RUSSELL

Residence Director, Farnstock Hall (1961)

THELMA SHEETS

Assistant in the Business Office (1966)

JOYCE SHOBE

Assistant in the Admissions Office (1966)

ALMIRA E. SHULER

Residence Director, Kline Hall (1966)

LORETTA TIPTON, A.B.

Secretary to the Business Manager (1972)

A.B., McPherson College, 1952

MARGUERITE WESTFALL

Residence Director, Metzler Hall (1963, 1961)

VIOLA WILSON

Residence Director, Arnold Hall (1966, 1965)

ALICE R. WININGER

Assistant in the Business Office (1966)

ZORA ZIMBELMAN

College Nurse (1966)

R.N., Ashury Hospital

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