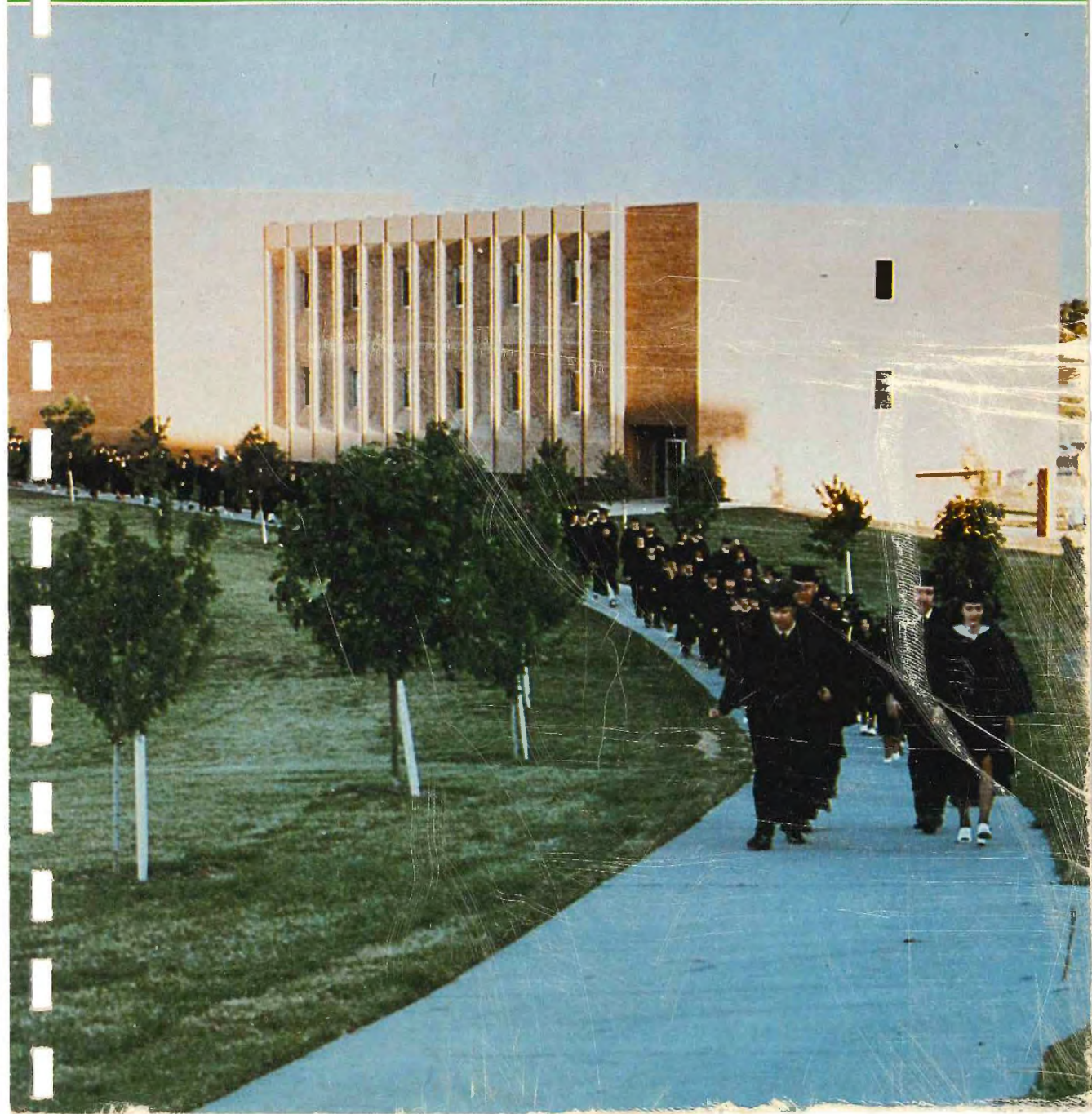




MISSOURI WESTERN STATE COLLEGE CATALOG 1978-79



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GENERAL CATALOG

1978-1979

MISSOURI WESTERN STATE COLLEGE

4525 Downs Drive
St. Joseph, Missouri 64507
(816) 233-7192

"Missouri Western State College actively follows a policy of non-discrimination on the basis of race, color, religion, sex, or national origin in regard to all employment practices and to student financial aid, recruitment, admission, housing and retention of students as required by Title IX of the Education Amendments Act of 1972."

"Missouri Western State College actively follows a policy of non-discrimination on the basis of physical or mental handicap as set forth in Section 504 of the Rehabilitation Act of 1973."

Information in this catalog is subject to change and thus does not constitute an agreement or contract. This catalog reflects college policy as of December 1, 1977.

FOREWORD

The general catalog of Missouri Western State College serves as a guide to the academic programs of the College and is intended to assist students in the selection of their programs of study. The catalog contains general information on requirements for admission, regulations, student affairs, degree programs, facilities and ad-

ministration. It includes a description of all courses offered in the College and lists faculty members and administrators. Missouri Western State College is accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education.

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INFORMATION ABOUT THE COLLEGE



THE COLLEGE

With the opening of the 1969-70 academic year, Missouri Western State College began its existence as a four-year college offering baccalaureate degrees. The College evolved from the earlier St. Joseph Junior College, organized by the St. Joseph Board of Education in 1915. In 1964, interested citizens in eleven school districts joined in petitioning the Missouri State Board of Education for the formation of a junior college district. At a district election in 1965, the voters ap-

proved the establishment of the Missouri Western Junior College District. Subsequently, the Missouri State Legislature authorized the addition of junior-year and senior-year instructional programs.

Missouri Western State College became a fully funded state college July 1, 1977.

The College offers a comprehensive academic program designed to provide a vital center of learning and culture for the Missouri Western State region.

GOALS OF THE COLLEGE

6

Cognizant of its obligations to the district and the state, to the student as a person as well as a seeker of knowledge, and to itself as a community involved in the perpetuation and increase of knowledge, Missouri Western State College, through its Boards of Control, undertakes to:

- I. provide educational opportunities suited to the needs of its student body by developing;
bachelor degree programs in selected disciplines in the arts and sciences, education, technology, and business administration;
one year certificate and associate degree programs in selected vocational and technical fields;
pre-professional and transfer programs in designated fields; general education components in all degree and certificate programs;

continuing and adult education courses, workshops, seminars and programs suited to the capabilities of the college and the needs of the community.

- II. provide an appropriate learning environment for its students through the development of proper facilities and a strong and committed faculty, and by supplying requisite auxiliary services and recreational and cultural opportunities.
- III. promote, within limits defined by the prior claim of regularly enrolled students, the welfare of the community, not only through work in continuing education but also through the provision of cultural and recreational opportunities and appropriate services.

VEHICULAR ACCESS MAP

4525 Downs Drive St. Joseph, Mo. 64507

North

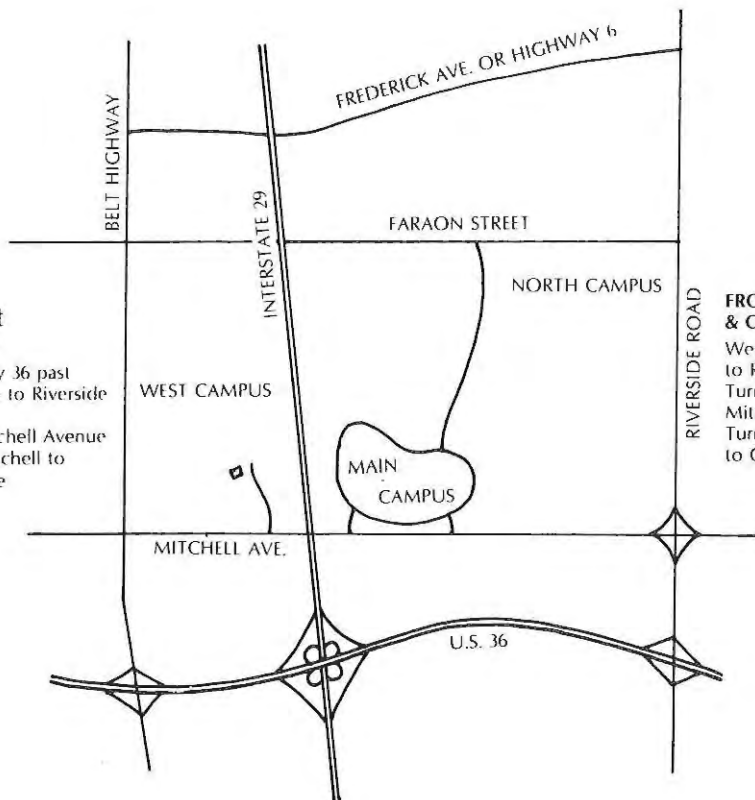
FROM MOUND CITY, SAVANNAH & MARYVILLE

South on I-29
Take Highway 36 east at interchange with I-29
Go east on Highway 36 to Riverside Interchange
Turn left to Mitchell Avenue
Turn left on Mitchell to College Entrance

West

FROM KANSAS

East on Highway 36 past I-29 interchange to Riverside Interchange
Turn left to Mitchell Avenue
Turn left on Mitchell to College Entrance



East

FROM CHILLICOTHE & CAMERON

West on Highway 36 to Riverside Interchange
Turn right to Mitchell Avenue
Turn left on Mitchell to College Entrance

7

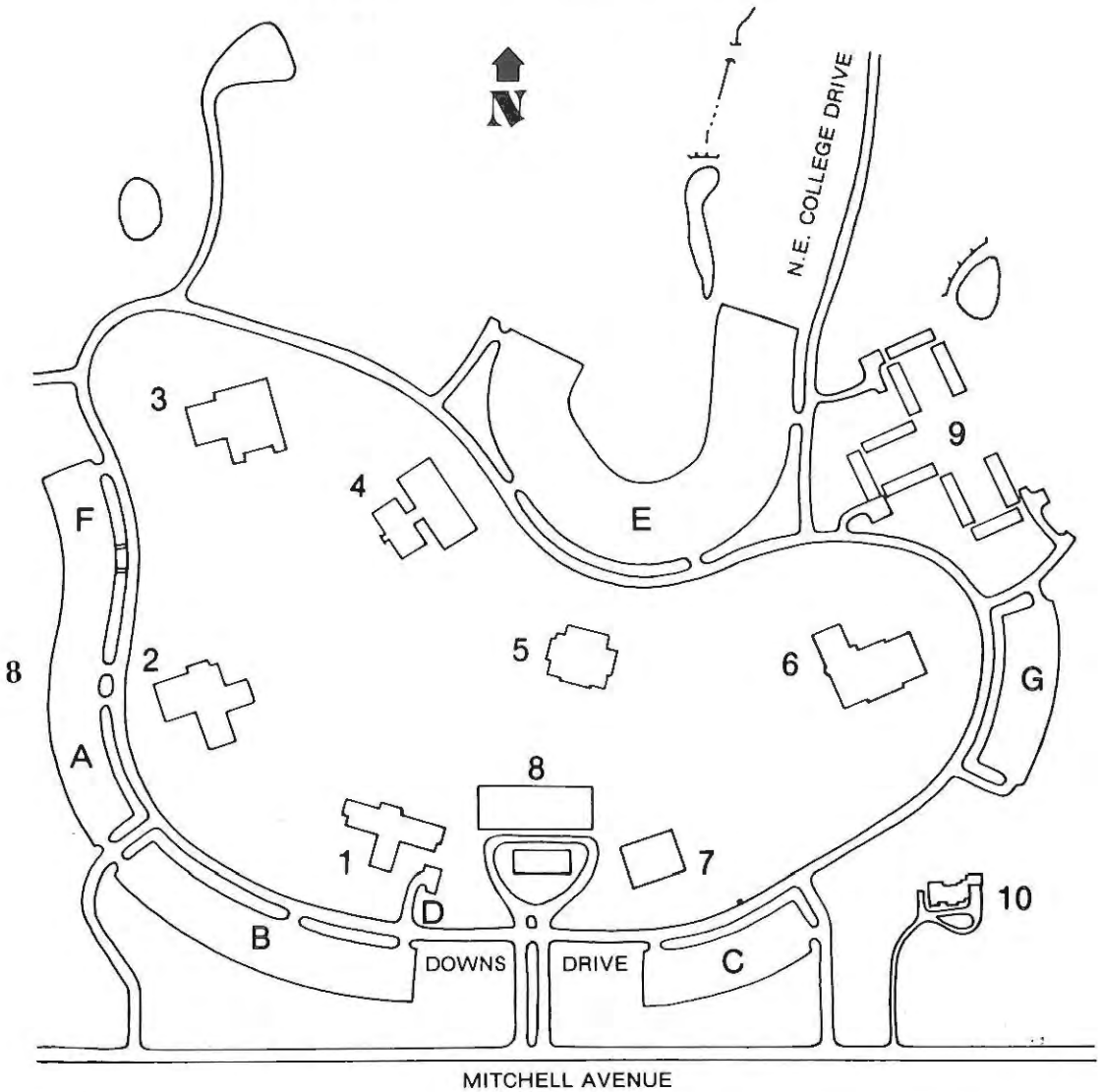
South

FROM KANSAS CITY

North on I-29 to Cameron exit
Take Highway 36 east to Riverside Interchange
Turn left to Mitchell Avenue
Turn left on Mitchell to College Entrance



MISSOURI WESTERN STATE COLLEGE



Main Campus

1. Frank Popplewell Classroom-Administration Building
2. Dr. Thompson E. Potter Fine Arts Center
3. Health, Physical Education and Recreation Building
4. Engineering Technology Building
5. Evan R. Agenstein Science and

6. Nelle Blum College Center
 7. Warren E. Hearnnes Learning Resources Center
 8. Student Services/Classroom Building
 9. Campus Residence Complex
 10. President's Home
- A-G Parking Lots

COLLEGE CALENDAR

1978-79

Summer Session 1978

June 2 (Fri.)	Registration
June 3 (Sat.)	Saturday Classes begin
June 5 (Mon.)	Weekday Classes begin
June 30 (Fri. 10:00 p.m.)	First 4 week session ends
July 4 (Tues.)	Holiday
July 29 (Sat. 12:00 noon)	Summer session ends
Aug. 1 (Tues. 4:30 p.m.)	Final Grades due

Fall Semester 1978

Aug. 17, 18	Faculty Plan Days
Aug. 21, 22	Registration
Aug. 23 (Wed. 7:00 a.m.)	Classes begin
Sept. 4 (Mon.)	Holiday
Oct. 27 (Fri.)	Student Activity Day (No Classes)
Nov. 22 (Wed. 12:00 noon)	Thanksgiving Vacation begins
Nov. 27 (Mon. 7:00 a.m.)	Classes resume
Dec. 9 (Sat. 12:00 noon)	Classwork ends
Dec. 11 (Mon. 7:00 a.m.)	Final exams begin
Dec. 16 (Sat. 12:00 noon)	Fall Semester closes
Dec. 19 (Tues. 4:30 p.m.)	Final Grades due

Spring Semester 1979

Jan. 15, 16	Registration
Jan. 17 (Wed. 7:00 a.m.)	Classes begin
Mar. 17 (Sat. 12:00 noon)	Spring recess
Mar. 26 (Mon. 7:00 a.m.)	Classes resume
April 13 (Fri.)	Holiday (Good Friday)
May 8 (Tues. 10:00 p.m.)	Classwork ends
May 10 (Thurs. 7:00 a.m.)	Final Exams begin
May 16 (Wed. 10:00 p.m.)	Spring Semester closes
May 17 (Thurs.)	Commencement
May 18 (Fri. 4:30 p.m.)	Final Grades due

Freshmen Orientation Dates: July 17-18; August 5 (tentative) and August 15, 1978.

COLLEGE CALENDAR

1979-80

Summer Session 1979

May 29 (Tues.)	Registration
May 30 (Wed. 7:00 a.m.)	Classes begin
July 4 (Wed.)	Holiday
July 25 (Wed. 10:00 p.m.)	Classes end
July 27 (Fri. 4:30 p.m.)	Final grades due

Fall Semester 1979

Aug. 16, 17 (Thurs. Fri.)	Faculty Plan Days
Aug. 20, 21 (Mon. Tues.)	Registration
Aug. 22 (Wed. 7:00 a.m.)	Classes begin
Sept. 3 (Mon.)	Holiday
Oct. 27 (Fri.)	Student Activity Day
Nov. 21 (Wed. 7:00 a.m.)	Thanksgiving Vacation begins
Nov. 26 (Mon. 7:00 a.m.)	Classes resume
Dec. 10 (Mon. 10:00 p.m.)	Classwork ends
Dec. 11 (Tues.)	No classes
Dec. 12 (Wed. 7:00 a.m.)	Final Exams begin
Dec. 18 (Tues. 10:00 p.m.)	Fall Semester close
Dec. 20 (Thurs. 4:30 p.m.)	Final grades due

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Spring Semester 1980

Jan. 14, 15 (Mon. Tues.)	Registration
Jan. 16 (Wed. 7:00 a.m.)	Classes begin
Mar. 17-21 (Mon. thru Fri.)	Spring recess
Mar. 24 (Mon. 7:00 a.m.)	Classes resume
Apr. 4 (Fri.)	Holiday (Good Friday)
May 6 (Tues. 10:00 p.m.)	Classwork ends
May 7 (Wed. 4:30 p.m.)	Final Exams begin
May 14 (Wed. 4:30 p.m.)	Spring Semester closes
May 15 (Thurs. 8:00 p.m.)	Commencement
May 16 (Fri. 4:30 p.m.)	Final grades due

Summer Session 1980

May 29 (Thurs.)	Registration
May 30 (Fri. 7:00 a.m.)	Classes begin
July 4 (Fri.)	Holiday
July 25 (Fri. 10:00 p.m.)	Classes end
July 29 (Tues. 4:30 p.m.)	Final grades due

INFORMATION ABOUT MATRICULATION



ADMISSION

Missouri Western State College maintains an open-door admission policy and adheres to the requirements of Title IX of the Educational Amendment Act of 1972. National origin, race, color, religion or sex are not factors used in determining the admissibility of students.

In cooperation with the Articulation Agreement among post-secondary schools in Missouri, the college will accept the holder of an Associate of Arts degree from an accredited Missouri public institution as having completed the general studies requirements.

Graduates of accredited high schools from both Missouri and other states will be admitted to Missouri Western State College under the same policies. However, if it ever becomes necessary to limit admissions, in-state students will be given first priority.

A person who desires to take credit courses at Missouri Western State College must be admitted to the institution through one of the following categories.

The campus is constructed to accommodate handicapped students.

First Time in College

A person who has not previously attended a college or university must provide

an application for admission, a \$5.00 matriculation fee, results of the American College Test (ACT), and a high school transcript with eight semesters of work, or a high school transcript with seven semesters of work and confirmation of high school graduation, or an equivalency certificate awarded upon successful completion of the General Education Development Test (GED).

A foreign student must provide an Application for Admission, Application Supplements (2), a \$5 Matriculation Fee, Results of the Test of English as a Foreign Language (TOEFL) with a minimum score of 500, documentary evidence of financial ability to attend MWSC, proof of completion of high school or its equivalent.

Freshmen Orientation Dates: July 17-18; August 5 (tentative) and August 15, 1978.

College Transfer

A person who has previously attended a college or university must provide an application for admission, a \$5.00 matriculation fee, and an official transcript from each college and university attended, or evidence of bachelor's or higher degree.

A minimum of 60 semester hours of senior college credit must be included within the 124 semester hour credit requirement of the bachelor's degree.

Foreign students transferring to MWSC from other U.S. institutions must contact the Office of Admissions and Records for information regarding additional admission requirements.

A student's grade point average is based only on courses taken at Missouri Western State College. A transfer student who is admitted with less than a "C" average will be required to make up the grade point deficiency.

Transfer students seeking a bachelor's degree must complete at least 30 of their last 45 credits at Missouri Western State College (exclusive of credit by examination). A minimum of nine credit hours of the residence requirement must be in the major field. Education majors must also include student teaching in the residence requirement.

Transfer students seeking the associate degree must complete the last fifteen hours at this institution (exclusive of credit by examination). A minimum of six credit hours of the residence requirement must be in the major field.

Special Student

This category is for the person who is NOT SEEKING A DEGREE at Missouri Western State College but desires to enroll in credit courses. A student under

suspension from Missouri Western is NOT eligible to be admitted under this category.

To be admitted, the student must provide an application for admission and a \$5.00 matriculation fee.

A high school student who has completed the junior year is eligible to attend Missouri Western State College as a special student upon the high school principal's certification that the student is academically capable of pursuing college level course work. The student must provide

an application for admission, a \$5.00 matriculation fee, and certification from the high school principal.

A person who is admitted under this category who later decides to seek a degree must reapply for admission under the appropriate admissions category. (Consult the Admissions and Records Office).

Non-resident credit and Credit by Examination will not be entered on the permanent record of a Special Student until he/she reapplies as a degree-seeking student and has met all admission requirements under the appropriate category of admission.

Non-resident credit

Missouri Western State College may accept a total of 30 credit hours work (maximum, applicable to a degree) obtained through Non-resident credit or Credit by Examination.

United States Armed Forces Institute and other armed service schools.

Credits earned through the United States Armed Forces Institute (USAFI) are generally recognized in accordance with the recommendation of the Commission on Accreditation of Service Experiences of the American Council of Education.

Extension work from regionally accredited institutions of higher education.

Correspondence work from regionally accredited institutions of higher education.

The foregoing work must be documented by written records from the United States Government and/or other institutions of higher education.

Credit by Examination

A student whose travel, employment, extensive reading or other unique educational experience, which appears to have given proficiency in courses required in the curriculum equivalent to that ordinarily attained by that taken in the traditional classroom manner, may be granted permission to attempt college credit through examination. College credit by examination is available for all courses required in general education and some courses required for majors.

Credit for general studies courses may be obtained by taking the CLEP General Examination. Credit for major field courses may be obtained by taking the CLEP Subject Matter Exam or a comprehensive test designed by the department. The department determines which courses are appropriate for "Credit by Examination" and the test instrument to be used.

If a student should take subject exams which are not normally employed for the test-out program, the results will be reviewed by the appropriate department and credit may or may not be awarded.

A student is eligible to receive credit by examination only if meeting the following requirement;

the student must have applied for admission to MWSC and paid the matriculation fee,

the student must be enrolled in MWSC before credit obtained through examination is awarded,

the student must not be enrolled in a course for which an exam is being requested,

the student must be granted written permission by all appropriate college authorities prior to taking the exam unless it is the CLEP General for a first-time college student, and

transfer students must have complete transcripts of previous college credit in the Records Office before written permission for the test out will be granted.

A student is ineligible to take a test for "credit by examination" if the credit which the student would earn on that test makes the student eligible for graduation at the end of that semester.

A student is not eligible to receive credit by examination if he/she has;

earned prior credit in the course, audited the course, attempted the course and received a grade assessment of WF or F, or taken a college course or courses which contain the same basic material.

Normally, students request credit by examination early in their college career to avoid ineligibility at a later date. The student must earn a minimum of 30 credit hours of resident credit excluding any credit by examination.

The College-Level Examination Program (CLEP) General Examinations are administered by the University of Missouri Extension Center located on the Missouri Western State College campus. In addition to the local test site, the CLEP is administered at various locations throughout the nation. Applications should be completed and returned to the Extension Office four weeks prior to test dates which are available in SS/C 112.

The test fees are; \$20.00 for one, \$30.00 for two, and \$40.00 for three or more.

To obtain credit in an area of the CLEP General Examination a minimum of a 500 scaled score must be attained on the test in that area. High school seniors should take the CLEP General Examination before the end of April. The following table lists the five CLEP General test areas and indicates how credit earned through the CLEP General Examination is awarded in the general studies program at Missouri Western State College.

Credit by examination may be obtained in specific subjects. A list of courses for which subject tests are available may be obtained in the office of the Director of Testing. Successful performance on a subject test is determined by the academic department in which that course is lodged. Applications for subject examinations may be acquired from the office of the Director of Testing. The test dates are

November 11, 1978

(application deadline October 13)

April 21, 1979

(application deadline March 23, 1979)

CLEP Subject Examinations are accepted by some departments. For many courses, however, they are not available or may be considered inappropriate. In such cases, a college examination is used. The student should contact the office of the Director of Testing prior to taking a CLEP Subject Examination to determine whether or not

that particular examination is acceptable for obtaining credit.

Student requests for permission to take examinations for credit at times other than the regularly scheduled test dates will be granted only in exceptional cases. Such requests should be initiated in the office of the Director of Testing. The following procedure will be observed:

the student must present a written request in which he states his reasons for asking for the special date,

the department chairman will decide whether or not the petition is justified and may ask for verification, and

if the circumstances warrant it, the department may set up a special test time.

The two types of Subject Examinations are:

Single-level Subject Matter tests; A student is required to take a separate test for each course for which he desires to obtain credit. The test fee is \$20.00 if the test used for that course is CLEP, and \$15.00 if the exam used for test out is a departmental college test.

Multi-level Subject Matter tests; In the case of sequence courses, an academic department may use a single test in determining the proficiency of the student in the skills/knowledge demanded by the courses in said sequence. If a student desires credit by examination in two or more courses in a sequence covered by such a test then a test fee of \$25.00 is applicable and the student will be given credit for each course in the sequence for which he demonstrates the minimum standards of proficiency as designated by the academic department.

CLEP GENERAL TESTS

CR. HRS.

ENGLISH

General Studies Requirement Met

ENG 100 & 3 cr. hrs.

ENG 104 3 cr. hrs.

HUMANITIES

Subscores

High in Fine Arts

Low in Literature

General Studies Requirement Met
 Art/Music/Theatre & Humanities elective (excluding Lit) 3 cr. hrs.
 3 cr. hrs.

Subscores

Relatively equal subscores or
 High in Literature
 Low in Fine Arts

General Studies Requirement Met
 Humanities elective 3 cr. hrs.
 ENG 210 3 cr. hrs.

MATHEMATICS

General Studies Requirement Met
 MAT 101 & MAT 105 3 cr. hrs.
 3 cr. hrs.

NATURAL SCIENCE

Subscores

Higher in Biological
 Lower in Physical

General Studies Requirement Met
 BIO 101 6 cr. hrs.

Subscores

Lower in Biological
 Higher in Physical

General Studies Requirement Met
 One of the following:
 CHE 101 or 6 cr. hrs.
 PHY 1016 cr. hrs.

SOCIAL SCIENCE AND HISTORY

General Studies Requirement Met
 Two of the following:
 HIS 140 or 3 cr. hrs.
 HIS 150 or 3 cr. hrs.
 PSC 101 3 cr. hrs.

If a student should decide not to take a test after the petition for test out has been processed, a refund request may be initiated in the office of the Director of Testing. (However, \$5.00 of the original fee paid will be retained for processing).

English Honors

Entering students who score 25 or above on the English section of the American College Test (ACT) are ordinarily placed in 112 Honors Composition and Rhetoric, and upon its successful completion, are also awarded 3 hours credit in 104 Composition and Rhetoric. For the student, this process fulfills written composition requirements in general studies. The English major who successfully completes this program enters 224 Advanced Composition and Literature, a course required of all English majors.

REGISTRATION

Missouri Western State College complies with the Family Educational Rights and Privacy Act of 1974.

may be granted 4 hours of physical education credit and 2 hours of hygiene credit. The general education credit will be granted upon presentation of the DD 214 or NGB 55 form to the Admissions and Records Office.

Residence

It is the responsibility of each student to register under the proper residence and pay proper fees. Rules of residency are available in the Admissions and Records Office. Any student claiming residency in the State of Missouri may be required to furnish evidence in support of the claim.

The Admissions and Records Office will rule on all questions regarding residency, but the student has the right to appeal the decision to the Admissions and Graduation Committee.

If, after enrollment, the student is eligible for a different residency classification, a petition form for this purpose is available in the Admissions and Records Office.

Schedule of Fees —

16 Fees include a S.G.A. fee of \$10.00 for full time students and \$5.00 plus 50 cents per credit hour for part time students.

Fall & Spring Semesters

Residents of Missouri	Non-Residents of Missouri
# of credit hours	# of credit hours
Fees (includes SGA Fees)	Fees (includes SGA Fees)
1 = \$ 27.00	1 = \$ 48.00
2 = \$ 49.00	2 = \$ 91.00
3 = \$ 71.00	3 = \$ 134.00
4 = \$ 93.00	4 = \$ 177.00
5 = \$ 115.00	5 = \$ 220.00
6 = \$ 137.00	6 = \$ 263.00
7 = \$ 159.00	7 = \$ 306.00
8 = \$ 181.00	8 = \$ 349.00
9 or more = \$ 201.00	9 or more = \$ 391.00

Veterans

The College is approved by the Veterans Administration to offer programs for Veterans, for those attending under the War Orphans Act, Veterans Tutorial Program, and the Veterans Work-Study Program. Veterans application forms and general information are available in the Office of Veteran Affairs.

Students who have completed a minimum of one year of active military service

Other Fees

Application Fee (non-refundable)	\$ 5.00
Applied Music Fee	
(per credit hour)	\$ 20.00
Audit Fee	Regular Amount
College Credit by Examination (single level) (per test)	\$ 15.00
College Credit by Examination (multi-level) (per sequence)	\$ 25.00
Dormitory Fee (Room & Board) (per semester)	\$ 485.00
Dormitory Security Deposit (subject to refund)	\$ 50.00
Graduation Fee (all candidates)	\$ 15.00
Laboratory Materials and/or Breakage	Cost
Physical Education Facility Fee	\$ 3.00
Transcript Fee	\$ 1.00

(The college reserves the right to change fees without notice.)

Payment of Fees

Fees will be payable at registration and registration will not be considered complete unless all fees have been paid.

Refund of Fees

Refunds are given only to students who drop out of college entirely; no refund is given to students who drop individual classes or make schedule changes that result in a reduced semester hour class load. Fall, Spring and Eight-Week Summer Semesters

Withdrawal during first week of classes.... 80% of Fee

Withdrawal during second and third week of classes
50% of Fee

Withdrawal after third week of classesNo Refund
Four-week Summer Sessions

Withdrawal during first week of classes.... 80% of Fee

Withdrawal after first week of classesNo Refund

FINANCIAL AID

The college's financial aid program is designed to assist qualified students who would not otherwise be able to attend Missouri Western State College. Scholarships, fee waivers, or financial aid, are not applicable for courses numbered under 100 or for courses taken without regular college credit.

Financial aid is awarded on the basis of evidence of financial need. The college requires all applicants to submit the American College Testing Program's Family Financial Statement. (The C.C.S. Parents' Confidential Statement will also be accepted.) This statement provides the college with the information needed to determine to what extent financial assistance might be needed to enroll.

Students are expected to assist themselves by using previous savings, earnings from summer employment, and, if it should be necessary, a part-time job opportunity in conjunction with other financial aid at Missouri Western. Parents are expected to contribute funds from their income and assets. The amount expected from the parents is that sum which represents the difference between the total expenses and the amount represented by anticipated student earnings and college aid. In reviewing the savings and annual income of the family, consideration is granted for normal commitments of the income and unusual expenditures such as: additional children in college, extensive medical costs, and curtailment of earning power. The cost of transportation will vary with each student but an appropriate allowance is made for this in the aid computation.

The institutional budgets used to calculate the educational cost at Missouri Western for the 1978-79 school year are as follows:

IN-STATE

	On Campus	Off Campus
Tuition & Fees	\$ 402	\$ 402
Room & Board	970	1,100
Books & Supplies	150	150
Travel	350	350
Personal	250	250
Misc.	250	250
TOTALS	\$2,372	\$2,502

OUT-OF-STATE

	On Campus	Off Campus
Tuition & Fees	\$ 782	\$ 782
Room & Board	970	1,100
Books & Supplies	150	150
Travel	350	350
Personal	250	250
Misc.	250	250
TOTALS	\$2,752	\$2,882

In packaging financial aid, this office considers in priority order; (1) Grants, (2) Work-Study, and (3) Loans. It is our desire to meet the full need of each student without giving an unnecessary loan.

Since the amount of aid awarded to a student is a reflection of the financial position of the family, it is regarded as confidential between the student and his family and the college. The amount awarded is determined on the basis of need, and any additional prizes or awards received by the student from outside agencies must be reported to the Financial Aid Office.

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Application Procedure for Financial Assistance

A student who applies for admission and who wishes to be considered for financial aid opportunities must have a copy of the Family Financial Statement forwarded to Missouri Western State College by the American College Testing Program. An institutional data sheet must also be submitted. The Family Financial Statement may be secured from the high school guidance office or the Student Financial Aid Office at Missouri Western. The Family Financial Statement should be completed in the early spring before the school year in which financial aid is requested and mailed to ACT, as instructed on the form. Allow four weeks for processing.

The above procedure is required each year by returning students who desire financial assistance.

Awarding of Financial Aid

May 1, of each year is the deadline date when the completed application must be in the Office of Student Financial Aids at Missouri Western State College. At that time applications will be considered, awards made, and students notified. Applications will be accepted after June 15, but chances of receiving financial assistance will be much less since most aid will already have been awarded.

Student Aid

BASIC EDUCATIONAL OPPORTUNITY GRANT: This federal grant entitles every student wishing to attend college \$1400 minus parent contribution which is not to exceed one-half of the cost of college. To be eligible to receive the Basic Educational Opportunity Grant, the student must demonstrate need by applying yearly.

MISSOURI STUDENT GRANT PROGRAM: The Missouri Student Grant Program, under Senate Bill 613, established a financial assistance program to enable qualified, fulltime students to receive non-religious educational services in a public or private institution of higher education of their choice. The grant will not exceed one-half of the tuition and fees or \$900, whichever is the lesser of the two amounts. The deadline for filing for this grant is April 30.

EDUCATIONAL OPPORTUNITY GRANTS: Students who qualify on the basis of exceptional financial need may apply for an Educational Opportunity Grant, made available under Title IV of the Higher Education Act of 1965. These grants may range from \$200 to \$1000. Grants must be matched by an equal amount from some other qualifying source such as College Work-Study, National Direct Student Loans, etc.

COLLEGE WORK-STUDY PROGRAM: Under Title 1, Part C, of the Economic Opportunity Act of 1964, a student may be employed part-time while attending college. Part-time employment means working a maximum of 20 hours per week while classes are in session. Prospective students who qualify under the guidelines of the College Work-Study Program may be employed 40 hours per week in

the summer months preceding the academic year.

NATIONAL DIRECT STUDENT LOANS: The National Direct Loan Program, established under Title II of the National Defense Education Act of 1958, is a long-term program from which eligible and deserving students may be granted substantial loans to supplement other income for educational purposes.

FEDERALLY INSURED STUDENT LOANS: The College participates in the Federally Insured Student Loan program. This is a loan program whereby students are loaned necessary funds from their local banks. Applicants should contact their local bank or the Office of Student Financial Aids for more information.

LAW ENFORCEMENT EDUCATION PROGRAM (LEEP): The Law Enforcement Education Program (LEEP) began operation in the spring of 1969, following passage of the Omnibus Crime Control and Safe Streets Act of 1968. LEEP is a program intended to develop professional law enforcement officers through higher education. LEEP provides educational opportunity through financial aid and is directed to students having the ability and desire to provide professional performance in the criminal justice system. Both loans and grants may be obtained through this program.

NURSING STUDENT LOAN PROGRAM: This program is intended to assist full time students to achieve careers in nursing by providing long-term low interest loans to help meet costs of education.

INSTITUTIONAL LOAN: The College has various student loan funds available to its students and prospective students. These funds are used to loan worthy and needy individuals the money necessary for tuition, fees and books, not to exceed \$300. The interest charge for the use of these funds is nominal. Liberal repayment schedules are available, however, the loan is a short-term emergency loan and must be paid back the same semester. An interested individual is encouraged to visit or write the Financial Aid Office.

DR. WILLIAM L. AND MILDRED T. LANDFATHER LOAN: Landfather funds provide interest free loans for 5 students each semester. The loans are awarded by the Student Financial Aid Office to freshmen, sophomore, juniors, or seniors whose major field is Science or Mathe-

matics. The loan may be renewed each semester, provided the recipient makes satisfactory academic progress. Repayment of loan after graduation is arranged for the convenience of the student.

PART-TIME EMPLOYMENT: Each year there are opportunities for students to find part-time employment on the campus or in the community.

Information concerning job opportunities may be secured from the Financial Aid Office.

Scholarships

Scholarships are available to Missouri Western State College students who qualify. Applications for scholarships may be picked up in the Office of Financial Aid, and should be returned to that office on or before April 1. At this point copies of the applications will be distributed to all members of the Scholarship Committee, for review. The Scholarship Committee shall meet on or before April 15, and notify all applicants of their decision by May 1.

Scholarships can be broken down into two general categories, those having specific requirements, and those with no specific requirements. They shall be broken down into these two categories in the catalog.

Tuition and Fee Waiver Scholarships

BANKING AND FINANCE SCHOLARSHIP: Missouri Western State College offers fee waiver scholarships to eligible non-resident students enrolled in courses leading to a major in banking and finance. To be eligible a student must be a full time employee of a banking institution and a member of the American Institution of Banking, living outside the State of Missouri.

The scholarship will include a waiver of the difference between in-state and out-of-state tuition and may be used only during the semester when the individual is enrolled in at least one course included in the banking and finance major.

An official of the banking institution in which a prospective student is employed should write a letter of nomination to the Director of Financial Aid no later than ten days prior to class registration.

Scholarships must be renewed each semester with a letter of nomination.

REGENTS AND TRUSTEES HONOR SCHOLARSHIP: Awarded by the College annually to all Missouri students who rank in the top 20% of their high school graduating class. The award is a partial waiver of tuition and fees. This award is renewable if the student attains a 2.5 grade point average the first semester and a 3.0 for each semester thereafter. The Regents and Trustees Honor Scholarship, with the above qualification, can be used by students entering Missouri Western State College for the first time beginning the fall semester of 1976 or thereafter.

ACADEMIC SCHOLARSHIP: Awarded by the College annually to all Missouri students who rank in the top 33% of their high school graduating class. The award is a partial waiver of tuition and fees. This award is renewable for one semester only if the student has attained a 2.5 grade point average the first semester.

SPECIAL AWARD: Awarded by the College annually to the student selected by each Missouri high school with 75 or less graduating seniors. Additional scholarships are available to the high school on the basis of one for each 75 graduating seniors. This award is renewable if the student attains a 2.5 grade point average the first semester and a 3.0 for each semester thereafter. The Special Award can be used only by student(s) entering for the first time beginning the fall semester of 1976 or thereafter.

FINE ARTS SCHOLARSHIPS: The Governing Boards offer a number of scholarships each year in the amount of incidental fees to students who show particular ability in art or music. Selections are made by the Scholarship Committee with recommendations from the Fine Arts faculty.

SPEECH AND/OR THEATRE SCHOLARSHIPS: The Governing Boards offer a number of scholarships each year in the amount of incidental fees to students who actively participate in the Speech and/or Theatre programs. Recipients of this scholarship must maintain a 2.0 grade point average as freshmen and 2.5 thereafter. Selections are made by the Scholarship Committee with recommendations from the Speech and Theatre faculty.

ROTC FEE WAIVER: Fee waiver scholarship. See Department Chairman.

Scholarships Having Specific Requirements for Eligibility

AGRICULTURE SCHOLARSHIPS: Applications for these scholarships are obtained through the Agriculture Department.

OUTSTANDING FRESHMAN AWARD: Production Credit Association has given a scholarship of \$200 to be awarded to a freshman student majoring in agriculture. The recipient selected by the Agriculture Scholarship Committee must be an outstanding freshman student.

This scholarship will be awarded to a student upon completion of the first year in the agriculture department, shows need, and be from one of the following counties in Missouri: Andrew, Atchison, Buchanan, Caldwell, Clay, Clinton, DeKalb, Holt, Nodaway, Platte, or Ray.

OUTSTANDING SOPHOMORE AWARD: Hall Implement Company has given a scholarship of \$200 to be awarded to a sophomore student majoring in agriculture. The recipient selected by the Agriculture Scholarship Committee must be an outstanding sophomore student.

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This scholarship will be awarded to a student upon completion of the sophomore year in agriculture who has demonstrated leadership abilities, academic excellence and financial need.

OUTSTANDING JUNIOR AWARD: Ed Lawrence, Jr. has given a scholarship of \$200 to be awarded to a junior majoring in agriculture. The recipient selected by the Agriculture Scholarship Committee must be an outstanding junior student.

This scholarship will be awarded to a student upon completion of the junior year in agriculture who has demonstrated leadership abilities, academic excellence and financial need.

OUTSTANDING AGRICULTURE STUDENT AWARD: Carter Cattle Company has given a \$200 scholarship to the student who is chosen by the Agriculture Scholarship Committee and Mr. Carter.

AMERICAN NATIONAL BANK SCHOLARSHIP: American National Bank, St. Joseph, Missouri, has given \$400 to make one to two scholarships available for a student(s) majoring in agriculture. The recipient(s) shall demonstrate leadership ability, academic excellence and financial need.

BUCHANAN COUNTY SOIL & WATER CONSERVATION SCHOLARSHIP: This scholarship of \$200 is to be given to a junior student with a 2.75 cumulative G.P.A. or a senior student with a 3.0 cumulative G.P.A.; majoring in agriculture; interested in pursuing a career in the general area of soil and water conservation; full-time resident of Buchanan County.

ST. JOSEPH STOCK YARDS AWARD: This award is one made to a student selected by the Agriculture Scholarship Committee. The student is to be an agriculture student majoring in animal science and the standards will be determined by the committee.

ALTRUSA CLUB SCHOLARSHIP: The recipient shall be a woman selected by the Scholarship Committee on the basis of need and personal commitment.

AMERICAN ASSOCIATION OF UNIVERSITY WOMEN, ST. JOSEPH BRANCH SCHOLARSHIP: The St. Joseph Branch of the A.A.U.W. offers a scholarship to a high ranking sophomore girl. Application for this scholarship is made through the Student Financial Aids office.

ARMY ROTC SCHOLARSHIP: One, two, three, and four-year scholarships are awarded each year to selected students who are enrolled or will enroll in the Army ROTC Program. The scholarships provide payment of all tuition, fees, textbooks, and a monthly tax-free stipend of \$100 for the duration of the scholarship, not to exceed ten months for each year of the scholarship.

ROTC SUBSISTENCE: Students enrolled in the junior and senior Military Science courses automatically receive a tax-free stipend of \$100 per month for the duration of each school year, not to exceed ten months per year.

DEPARTMENT OF MILITARY SCIENCE SCHOLARSHIP: This scholarship has been established by the college for a deserving freshman or sophomore who is enrolled in the ROTC program as a cadet. One scholarship will be given in each of the fall and spring semesters based on availability of funds. The recipient will receive \$100 towards payment of registration fees. Further qualifications for receipt of this award include a minimum of 2.3 high school or school GPA, and not receiving another scholarship from any other source. Application should be made to the scholarship committee.

ATHLETIC SCHOLARSHIPS: The Governing Boards have agreed to give a number of athletic scholarships to students who plan to participate in athletics. These athletic scholarships are awarded at the recommendation of the Director of Athletics and with the approval of the Scholarship Committee. The scholarship is a waiver of all or part of the fees incurred.

BUCHANAN COUNTY MEDICAL SOCIETY NURSING SCHOLARSHIP: A \$6,000 scholarship endowment fund was established by the Buchanan County Medical Society to provide one or more scholarships for Missouri Western State College students enrolled in a nurses training program. Application should be made to the Scholarship Committee.

CAROLYN B. ULLMAN TEACHER EDUCATION SCHOLARSHIP: The Missouri Congress of Parents and Teachers, aware of the shortage of teachers in the elementary field, offers a scholarship to students wishing to prepare to teach in the public elementary schools of the State of Missouri. The awards are based on (1) character, (2) scholastic record, (3) aptitude for teaching, (4) sound health. Application forms may be secured from the Financial Aids office.

THE CULVER-GETTYS MEMORIAL SCHOLARSHIP: This Scholarship is given in memory of Lt. Col. Charles M. Culver and Captain Hugh M. Gettys. The scholarship is awarded to a young man or woman who has completed a minimum of 28 college hours. The student must have a cumulative grade point average of 2.75 or better and show evidence of need of financial assistance. The scholarship shall be in the amount of the incidental fees for the first semester; and, if the student continues to achieve a cumulative grade point average of 2.75, it may be continued for the second semester. Preferably, the student should be planning to go into education.

DeSOTO McCABE MEMORIAL SCHOLARSHIP: The DeSoto McCabe Memorial Scholarship has been established to fund one \$300.00 Scholarship to a student who; demonstrates financial need through the ACT's Family Financial Statement analysis, is a graduate from the St. Joseph, Missouri School District, (All other things being equal-preferably a graduate of Lafayette High School) and is reasonably capable of

completing college level work to a baccalaureate degree.

The scholarship will be awarded for one semester at a time and the recipient is to be selected by the Missouri Western State College Scholarship Committee.

DR. WAYNE TOOTHAKER SCHOLARSHIP: By the will of the late Dr. Wayne Toothaker, a sum of \$5,000 was invested, the interest from which is to be awarded to a student who expects to enter the medical profession and is taking the pre-medical course. Application is made to the Scholarship Committee.

EAST HILLS MERCHANTS ASSOCIATION SCHOLARSHIPS: Awarded annually to athletes in any major sports field. Application should be made to the Athletic Director of Missouri Western State College, no later than May 1, of each year.

FEENEY CONSTRUCTION COMPANY SCHOLARSHIP: This scholarship was first awarded to a member of the 1962 graduating class. It is expected to be made available to former graduates of one of the St. Joseph high schools, in accordance with provisions established by the donor. Students may apply to the Scholarship Committee.

FIRST NATIONAL BANK MERIT SCHOLARSHIPS: These scholarships were established in 1961 by the First National Bank of St. Joseph as an expression of its interest in the importance of higher education and in appreciation of the contribution Missouri Western State College is making for the betterment of St. Joseph and the surrounding area. The scholarships cover fees and the cost of necessary textbooks. Ordinarily, the scholarships are for one year only and new recipients are named each year. However, should conditions warrant, a student may be awarded the scholarship for a second year. Application is made to the Scholarship Committee. From the applicants the Committee selects the three students who are best qualified from the standpoint of scholarship and financial need.

FRANK H. GEE CHEMISTRY SCHOLARSHIP: A \$320 scholarship has been established by Frank H. Gee to be awarded to a freshman student in the field of chemistry. The student must maintain a grade point average of 3.00 the first semester to remain eligible to receive the full scholarship. The recipient will be named by a department selection committee.

THE MR. AND MRS. CLARK C. GLAZE SCHOLARSHIP: A \$7,500 scholarship fund has been established by Mr. and Mrs. Clark C. Glaze, the interest from which is to be awarded. If used by a student taking a pre-medical course, the scholarship is to be known as the Emily B. Glaze Scholarship. If used by a student taking pre-engineering, the scholarship will be known as the Clark C. Glaze Scholarship. Application is to be made to the Scholarship Committee.

J. C. BENSYL MEMORIAL FUND SCHOLARSHIP: The family of J. C. Bensyl established this fund in his memory. The interest on contributions made by relatives and friends is used to provide assistance to a young man or woman pursuing a degree in education. To be eligible, the student must have completed a minimum of 28 college hours, show evidence of financial need and be in good academic standing.

MIDLAND-MOOREHEAD SCHOLARSHIP: The Midland-Moorehead Company established a trust fund in 1967. The interest from the investment of the fund is awarded each year by the Scholarship Committee to a student whose major area of study is engineering or technology.

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERING: Northwest Chapter Award: Sophomore pre-engineering students are invited to apply for this award. Application is made through the Scholarship Committee, with final selection being made by a committee of members of the Society.

NATIONAL ASSOCIATION OF POWER ENGINEERS, MISSOURI CHAPTER NO. 1, ST. JOSEPH SCHOLARSHIP: This organization has made a scholarship available to a pre-engineering student who is in his freshman year and who expects to complete his second year here. Application blanks are obtained from instructors who teach pre-engineering subjects. A committee made up of members of the Society makes the final selection.

THE NEWS-PRESS-GAZETTE ENGLISH SCHOLARSHIP: The News-Press-Gazette Corporation offers each year an award of \$100 to the student completing the sophomore year with the best record in English courses. The recipient of this award is chosen by an evaluating committee from the English Department.

OPAL KEARBY SCHOLARSHIP AWARD: Students majoring in Social Science are eligible to apply for one of these awards. Application blanks are in the Social Science Department Office.

SOCIETY FOR THE PRESERVATION AND ENCOURAGEMENT OF BARBERSHOP QUARTET SINGING IN AMERICAN, INC. Annual scholarships will be offered to students majoring in vocal music. Missouri Western State College Scholarship Committee will ask the vocal music department for assistance in naming these individuals awards.

ST. JOSEPH DRIVE-IN, INC.: Henry's Drive-In, 600 South 28 Street makes available a scholarship that will cover tuition and fees for two (2) semesters to an incoming freshman who is a graduate of Central High School in St. Joseph, Missouri. Applications shall be made to the Missouri Western State College Scholarship Committee. Selection will be made by the committee, based on the student's financial need. The student should be reasonably capable of completing college level work.

V. FRAN QUAMMEN SCHOLARSHIP: This award was established by friends and relatives of Fran Quammen, a former Missouri Western State College instructor in the Speech Department. The interest earnings from the trust fund is used each year to award a scholarship to encourage potential in the area of forensics. Applications should be submitted to the Scholarship Committee but applicants will be screened by a panel of judges selected from the Speech Department staff.

NATIONAL GUARD SCHOLARSHIP PROGRAM: This program is offered to members of the Missouri National Guard, by Missouri Western State College, which includes 25 partial fee waivers. Fee waivers are renewable each semester for a total of 124 semester hours.

To qualify for the free educational benefits, you must: Meet MWSC's admission requirements, and have a composite score of 18 or better on the ACT examination,

Qualify and be an active member in the Missouri National Guard (Air or Army). Students must maintain membership and satisfactory participation in a Missouri National Guard unit during the semester in which they have the scholarship,

Maintain a minimum full time enrollment of 12 semester hours and a 2.3 grade point average on a 4.0 scale to qualify for a continuous fee waiver,

Accept only one scholarship and/or fee waiver to MWSC. Students under advisement of the director of financial aid can select the scholarship and/or fee waiver that will be of greatest benefit,

Provide the college, at the beginning of each semester, a certification letter of enrollment status with the Guard.

Information about the scholarships may be obtained from high school counselors, the local National Guard recruiter or the nearest Guard Commander.

Scholarships Having No Specific Requirements

ALMA PLETCHER ENDOWMENT TRUST SCHOLARSHIP: Two (2) \$300 scholarships a year for upperclassmen. The applicant must be a full time student (12 hours) and be in good standing.

AMERICAN BUSINESS WOMEN'S ASSOCIATION AWARD: Officers of the organization select the recipient. The award ordinarily amounts to the incidental fee. These awards are made on the basis of scholastic achievement and financial need. Information concerning applicants is forwarded to officers of the organizations who make the final selection and inform the student well in advance of the time for final registration at the college.

ANDREWS-WHITAKER MEMORIAL SCHOLARSHIP: This scholarship is provided by Mr. and Mrs. Patrick H. Whitaker of St. Joseph, Missouri in memory of their parents, Madeline Keil Andrews and George H. Andrews and Cora Ann Johnson Whitaker and James W. Whitaker. Interest from the \$10,000 scholarship fund will be awarded annually to a Missouri Western State College student or students who have demonstrated academic excellence and a financial need. The recipient or recipients will be selected by the Missouri Western State College Scholarship Committee.

ANNE LOWELL WELLS FUND: This fund was created by the International Relations Club and furthered by the Cheshire Cheese Club in memory of Miss Anne Lowell Wells, a deceased member of the

faculty. The interest from this fund is available to a deserving student.

B'NAI B'RITH WOMEN'S DIVISION AWARD: Selection is made from a list of eligible students by a committee from the organization. Two are selected. It usually amounts to one-half of the incidental fees. This award has been made for many years.

DR. THOMPSON E. POTTER MEMORIAL SCHOLARSHIP: Friends and relatives of Dr. Thompson E. Potter have established a trust fund to be used for scholarship purposes. Dr. Potter served as President of both the Board of Regents and Board of Trustees of Missouri Western State College. The earnings from the trust fund are used each year to award a student a scholarship. Application is made through the Scholarship Committee.

EAST SIDE ROTARY CLUB SCHOLARSHIP: The East Side Rotary Club has established two scholarships of \$150 per semester. Once awarded, their scholarships may be retained as long as the student remains in good standing with the college. Application may be obtained through Mr. Dale Maudlin, First National Bank, St. Joseph, Missouri or the Financial Aid Office at the college.

FIRST TRUST BANK SCHOLARSHIP: This scholarship was established in 1969 by the First Trust Bank of St. Joseph to express recognition for the contribution the College is making to Northwest Missouri. The scholarship is awarded by the Scholarship Committee to the applicant best qualified and who has financial need.

MELMED SCHOLARSHIP: The income from the Melmed Trust Fund is to be used for scholarships of not less than \$100 each annually at Missouri Western State College. Selection will be made by the Scholarship Committee.

MISSOURI WESTERN STATE COLLEGE FOUNDATION SCHOLARSHIP: Designated monies of the foundation will be used in the awarding of scholarships in the amount of not less than \$100 annually, the distribution to be on a semester basis. Selection will be made by the Scholarship Committee.

HARRY MONSON MEMORIAL FUND: The Harry Monson estate, through the Downtown Rotary Club of St. Joseph, donated \$2,500 to be used for scholarship purposes. Two thousand dollars of this total is invested and the earnings are used

to grant some young person a scholarship.

UNITED MISSOURI BANK OF ST. JOSEPH SCHOLARSHIPS: The Park Bank Scholarships were established in 1969 to assist students showing exceptional financial need while attending Missouri Western State College, desiring that these students contribute to the betterment of St. Joseph and surrounding community, as well as to the College. Students may apply through

the Office of the Superintendent of the St. Joseph Public School District.

PROFESSIONAL FOOD-SERVICE MANAGEMENT: One \$250 scholarship for every 100 boarding students each year. Applications should be submitted to the Scholarship Committee.

SOUTH SIDE ROTARY CLUB: The South Side Rotary Club awards a scholarship to a student selected by its organization. Applications should be submitted to its chairman.



STUDENT AFFAIRS

Academic Advisement

Academic advisement is an important function. Good advisement can prevent many errors in the choice of a major or of courses which a student may choose to take.

Before a student formally declares a major, he should maintain close contact with the Counseling Center and those academic departments in which he is particularly interested.

A student officially declares a major by contacting the academic department in which his major is lodged and filing a Major-Minor Application form. In order to prevent misunderstandings, this formal declaration should be done early in the student's college career. The college catalog in effect at the time of completion of the Major-Minor Application will be used to determine the graduation requirements for that student. The Major-Minor Application remains effective for no more than six (6) years following its approval date.

In the final analysis, the student is responsible for the requirements of his educational program and should work closely with an advisor.

Counseling and Testing

COUNSELING

Counselors assist students in becoming oriented to the college, selecting courses, making a career choice, and understanding and attempting to resolve their personal problems.

A modern Career Information Center is available for students to broaden their understanding about different careers which are in alignment with individual student profiles evidenced by the interpretation of Career Planning instruments such as the Career Planning Profile, the Strong-Campbell Interest Inventory and the American College Testing result.

Trained counselors are available to assist students in resolving of personal and social problems so that they may more effectively pursue their college education.

All new students are offered the opportunity to attend a two or a one-day

orientation session which attempts to familiarize students with the college and provide assistance with academic advisement and schedule planning. Students may arrange future interviews with a counselor whenever they desire. Counselors attempt to help the student reach a state of self-reliance through a clearer understanding of oneself and individual potentials.

TESTING

The College serves as a testing center for the American College Test. Other tests are available to students on an individual basis. Many students have found it helpful to take the Career Planning Profile (CPP), the Strong-Campbell Interest Inventory, and other tests. The General Educational Development (GED) test is administered on a monthly basis. The Graduate Record Examination (GRE) is administered to all graduating seniors.

Students may test out of as much as thirty hours of college work either through credit obtained by earning a prescribed score on the College Level Examination Program (CLEP) or by taking departmental tests in specific subjects.

Student Conduct

The College expects each student, as a condition to remaining in the college, to conduct himself so as to maintain an effective environment for learning; to act responsibly in accordance with good taste, to observe college regulations and the city, state and federal laws, and to respect fully the right of others. The Student Handbook contains more specific information concerning student conduct and related disciplinary action which may include dismissal in case of serious infraction.

Housing

The Campus Residence Complex is contemporary in design. Each suite includes a large living room with two adjoining bedrooms on either side. Each suite also has its own outside entrance, a patio and self contained airconditioning and heating units. For additional information con-

cerning occupancy, contact the Housing Coordinator.

The Dean of Students maintains a list of approved off-campus housing. The college does not make individual rental agreements. It is advisable for the students to arrive in St. Joseph prior to the beginning of the academic year in order to locate suitable housing.

College Center

The College Center houses the Bookstore, Cafeteria, Snack Bar, Health Services, Placement Center, the Dean of Students, Student Government Association, College Center Board, Security and the football offices. Recreational equipment is also available in the basement area commonly known as the Rathskeller.

Bookstore

The college bookstore is located on the first floor of the College Center. It sells all college textbooks and supplies as well as a full line of accessories.

26 Health Services

Health Services are under the charge of a part-time medical doctor and a full-time registered nurse. Registered nurses are on duty during class hours. The nurses provide first aid, administer authorized medication, counsel in health related problems, and assist the student when referrals are made to a doctor, dentist, or public health offices. The physician prescribes treatment for students who seek medical attention.

Prior to treatment, each prospective full-time student must supply a student-completed medical history form.

All health records, including a permanent daily record of student's visits to the Health Services Center and of the care given to them, are filed in the Health Services office.

As a service to students, a health insurance plan is made available to students each year. It is strictly voluntary. After a plan is submitted to several insurance companies, the lowest bid is accepted. From that point on, the college ceases responsibility for the insurance program. This is in accordance with a recent ruling by the Attorney General of Missouri. The

Student Health Service strongly recommends that students not covered by a family health insurance plan obtain this coverage. It is extremely important for those students who are living away from home.

Library

In the pleasant atmosphere of the Hearnes Learning Resources Center students may study and relax. The building houses over 100,000 volumes, periodicals for research and recreation, micro-format, films, records, filmstrips, tapes and a variety of other print and non-print material, making information available, in the most suitable media.

Using a computerized system, for interlibrary loan, the LRC also makes available to students 2 million items in libraries across the United States. Professional librarians are available to give individual guidance and suggestions in locating resource materials. Individual study carrels allow for private study, while the student lounge offers a quiet relaxation area. Students also have seminar rooms for group study available to them.

Placement and Off-Campus Services

The Director of Placement and Off-Campus Services interprets the college to high school and junior college students, administrators, counselors, and other publics as assigned.

In this capacity, the Director works with Division Deans, Department Chairmen, and with the offices of admissions and records, counseling, financial aids, housing, testing, and public relations.

The office schedules school assemblies and staff visitations off campus, arranges luncheons and meetings for area educators, supervises informational centers, and consults with officials in business and industry in the college district regarding educational programs.

A placement service is maintained to assist present and former graduates of the College in finding employment.

It assists students and alumni by making available information concerning job openings, by compiling credentials of registrants and by arranging for interviews with prospective employers.

It assists employers by notifying them of qualified applicants by furnishing credentials and by arranging for interviews.

Students are urged to avail themselves of the services by registering with the Placement Service in the first semester of their senior year. Alumni are urged to keep their records up-to-date.

Alumni Association

The Alumni office serves as liaison between the college and former students. Through its bulletin it keeps alumni abreast of the College's academic and physical progress. It also encourages interest among the former students.

The Association elects a President, Vice President, Secretary, and Treasurer annually. Also, a twenty-four member board of directors serves the Association, of which eight are elected annually for a period of three years.

Activities

The student activities program is a necessary part of the educational philosophy at Missouri Western State College. While it is readily recognized that the information gained in the academic classroom is important in shaping the future of the student, it is becoming more and more apparent on today's college campus, that the information and experience gained in participating as a citizen in an academic community is equally important.

Student Government

The Student Government Assembly (SGA) is the primary student governing body on the campus and is composed of elected representatives from the student body. Because it represents the students, all student committees, activities, regulations and student oriented decisions in general are to be formed or acted upon by the Student Government Assembly.

Athletics

The College has an athletic program of intercollegiate competition for both men and women including football, basketball, baseball, golf, tennis, track and volleyball. Competition will begin in other sports as they can be staffed and facilities are provided.

An athletic program is an important unifying factor in campus life. Student organizations, the general student body and the staff of the college are vital supporters of the college athletic program. Only through their interest will the athletic program grow and continue to provide exciting activities enjoyed on campuses today. The Athletic Department urges each student to **BACK THE GRIFFONS!**

Intramurals

A full intramural sports program is offered to college personnel. The program of activities includes individual, dual, and team sports for the enjoyment and competitive need of students and faculty members.

The intramural program encourages the development of mental, physical, emotional, and social instruction. Through the intramural program the college hopes to help the student maintain better health through exercise. In general, Missouri Western provides the opportunity for every individual, regardless of his ability, to realize the fun of participation in his favorite sport against good competition.

Dramatics

At least two major productions, sponsored by the Department of Speech, Theatre, and Humanities are scheduled each year. Reader's theater, oral interpretation, and debate activities are also available to interested students.

Music

Music activities include participation in the marching band, stage band, various instrumental ensembles, the concert choir, and vocal ensembles. Although these activities are sponsored by the Department of Music, any student may participate.

Social Life

The social life changes from year to year in an effort to meet the current needs and interests of the student body and the college community. Some of the traditional events are: The Icebreaker Dance at the beginning of the year, The Homecoming Dance, The Christmas Dance and The Spring Formal. Other types of social

events include rock concerts, well known speakers and movies. Additional social events are developed and sponsored by the various organizations and interest groups on the campus.

Organizations

The following organizations are currently active on the campus. More detailed information regarding all campus organizations listed will be found in the current issue of the Student Handbook. The office of the Dean of Students will assist in answering questions in this area.

Departmental Clubs

Agriculture Club, American Marketing Association, Biology Club, Engineering & Technology Club, Forensics Society, Griffon Guard, Journalism Club, Le Circle Francais Club, Music Educators National Conference, National Society of PERSHING RIFLES, Phi Beta Lambda, Political Science Club, Sigma Tau Delta, Social

Work Club, Students Accounting Society, Student Art League, Student MSTA.

Social Clubs

Delta Chi Fraternity, Delta Zeta Sorority, Inter Greek Council, Lambda Chi Alpha, Panhellenic, Phi Mu, Sigma Kappa, Sigma Phi Epsilon, Sisters of the Golden Heart, Tau Kappa Epsilon.

Religious Clubs

Baptist Student Union, Campus Christian House, Fellowship of Christian Athletes, Newman Club.

Service Organizations

Circle K Club

Miscellaneous

Brothers & Sisters United, International Students Club, Judo Club, Students International Meditation Society, Tae Kwon Do Club.

INFORMATION ABOUT ACADEMIC PROGRAMS



DEGREE PROGRAMS

The degree requirements in this catalog become effective beginning the fall semester of 1978. A candidate for a degree may use as a basis for degree requirements, the general catalog in effect at the

time of completion of the Major-Minor Application. This application remains effective for no more than six (6) years following its approval date.

Pass-Fail

The major objective of the Pass-Fail option is to encourage a student to explore academically. The student may choose 100 and 200 level courses, normally avoided because of the regular grading system and lack of background.

A student may enroll for courses on a pass-fail basis within these guidelines:

a student may accumulate no more than six semester hours of Pass-Fail credit towards his degree,

the Pass-Fail option is only allowed for 100 and 200 level courses,

a student who passes the course (instructor indicating a letter grade of A, B, C, or D) receives credit without a grade, while the student who fails the course receives a grade of F. The attempted hours are included in the GPA.

a student may take all six semester hours credit on a Pass-Fail basis in one semester if he so desires,

although course pre-requisites are not as important in the Pass-Fail option, a student who does not meet a pre-requisite should consult the chairman of the department in which the course is offered if a Pass-Fail option is considered,

a student must designate in the Office of Admissions and Records, the Pass-Fail option during the fourth week after the first day of classes,

a student's instructor will not be informed that the student is enrolled under the Pass-Fail option. Current procedures will be followed by sending the mid-term grades and final grades from the instructor to the Registrar. In the Admissions and Records Office the student's grade will be converted to Pass-Fail credit,

a course completed under the letter

grade in which D or F was earned may be repeated on a Pass-Fail basis, and hours earned by Pass-Fail will not be used in computing grade point averages for honors.

Baccalaureate Degree Programs

Missouri Western State College offers six baccalaureate degrees with majors in various fields. In order to earn one of these degrees, students must complete the general degree requirements as listed below and the specific major and (where required) minor requirements as listed under each department.

For general degree requirements, see the Baccalaureate Degree section in Requirements for Graduation.

The baccalaureate degrees offered are:

Bachelor of Arts

Bachelor of Science

Bachelor of Science in Business Administration

Bachelor of Science in Education

Bachelor of Science in Technology

Bachelor of Social Work

The Bachelor of Arts degree is broadly based in the liberal arts and sciences. It is usually pursued by students who plan, upon graduation, to enter graduate school or a professional school such as law, medicine, or dentistry and by students who plan to seek employment in the areas of the arts, languages, social work, and government service. One of the requirements for this degree is sixteen credit hours in a foreign language. This degree is available with majors in biology, mathematics, natural science (Biology), English, history, political science, sociology, art, psychology, chemistry, theatre, and speech communications.

The Bachelor of Science degree is based on concentrated study in one or more sciences. It is usually pursued by students

who plan to apply this knowledge in the scientific areas of health, research, and industry. This degree is available with majors in medical technology, computer science, psychology, biology, chemistry, mathematics, history, political science, sociology, general agriculture, agricultural economics, agronomy, animal science, leisure management, natural science (Chemistry), data processing, and criminal justice.

The Bachelor of Science in Business Administration degree is designed for the student who desires a broad foundation in several areas related to business principles as applied in business, industry, or government employment. This degree is available with majors in accounting, economics, marketing, and management.

The Bachelor of Science in Education degree is designed to equip well-qualified individuals for careers in teaching or education. Upon completion of the degree requirements and a minimum grade of C in student teaching the candidate will receive a State of Missouri Teaching Certificate, and be prepared for graduate study in education and related fields. This degree is available with majors in physical education; elementary education; and secondary education in the areas of basic business, business skills, mathematics, biology, English, speech and theatre, social science, art, music marketing education, and chemistry.

The Bachelor of Science in Technology degree is designed for the student interested in a career as a technologist that requires skills and knowledge necessary to plan, produce, inspect, maintain, install and distribute technological products or services. This degree is available with majors in electronic engineering technology and construction engineering technology.

The Bachelor of Science in Technology "Two plus Two" degree is designed for the student who has completed a career-oriented associate degree program and desires the bachelor's degree with an additional emphasis in an approved cognate field. A student must complete 24 to 30 credit hours in a cognate field as well as the general degree requirements for baccalaureate programs. An earned associate degree with a career-oriented major is a prerequisite for admission into this degree program.

The Bachelor of Social Work degree is designed for the student whose goal is preparation for professional social work practice. A structured program of instruction focused on necessary specialized skills and knowledge is available to students who have declared a major in social work in accordance with the requirements for admission to the social work program.

4 Year

General Studies Program

BASIC GUIDELINES

Besides the courses listed, a student may be allowed to substitute another course in the same academic area provided the department in which the course is taught can determine that the student meets the prerequisite for that course.

A student may elect a maximum of six (6) semester hours of pass-fail credit in the General Studies Program.

A student may attempt a test out in most of the General Studies credit.

CATEGORY ONE 9 CREDIT HOURS

English Composition 6 Credit Hours
 ENG 104 and ENG 108, or credit by examination and ENG 112

Speech — one course from the following 3 Credit Hours

- SPH 104 Oral Communication
- SPH 105 Professional Speaking
- SPH 106 Public Speaking

CATEGORY TWO 9 CREDIT HOURS

One course from the following 3 Credit Hours

- (Test-out strongly encouraged)
- HIS 140 American History to 1865
- HIS 150 American History since 1865
- PSC 101 American Nat. Govt.

Two courses from the following 6 Credit Hours

- ECO 260 Principles of Economics
- GEO 100 World Geography
- HIS 100 Ancient and Medieval Civ.
- HIS 110 Modern Civilization
- PSY 101 General Psychology
- SOC 110 General Sociology
- SOC 120 Cultural Anthropology
- SWK 250 Social Prob. & Soc. Change
- MIL 110 The Defense Establishment in National Security and
- MIL 200 American Military History
- (Both MIL courses must be taken to total 3 cr. hrs.)

CATEGORY THREE**OPTION 1 9 CREDIT HOURS**

Literature..... 3 Credit Hours

ENG 210 Approaches to Literature

or

a Foreign Language Lit. course

Electives from the

following..... 6 Credit Hours

Philosophy

Foreign Language

Art

Music

Theatre

Literature

Three semesters in the following:

JOU 126 Journalism Laboratory

THR 140 Production Participation

(Theatre)

SPH 151 Laboratory Forensics (Speech)

MUS 110 Chorus

MUS 112 Vocal Ensemble

MUS 124 Symphony Orchestra

MUS 131 Symphonic Winds

MUS 135 Marching Band

MUS 333 Stage Band

OPTION 2 9 CREDIT HOURS

Humanities I — HUM 203.. 3 Credit Hours

Humanities II — HUM 205. 3 Credit Hours

32 Electives from the following..... 3 Credit Hours

Philosophy

Foreign Language

Art

Music

Theatre

Literature

Three semesters in the following:

JOU 126 Journalism Laboratory

THR 140 Production Participation

(Theatre)

SPH 151 Laboratory Forensics (Speech)

MUS 110 Chorus

MUS 112 Vocal Ensemble

MUS 124 Symphony Orchestra

MUS 131 Symphonic Winds

MUS 135 Marching Band

MUS 333 Stage Band

CATEGORY FOUR 12 CREDIT HOURS

Natural Science..... 9 Credit Hours

Minimum of 9 Credit Hours from the following:

BIO 101 Principles of

Biology..... 5 Credit Hours

CHE 101 Introductory

Chemistry..... 5 Credit Hours

PHY 101 Concepts and Principles of

Physics..... 4 Credit Hours

ESC 204 Introduction to

Geology..... 4 Credit Hours

Mathematics..... 3 Credit Hours

Any college level math course selected from those math courses listed under the Department of Mathematical Sciences and numbered 101 or higher.

CATEGORY FIVE 4 CREDIT HOURS

PED 101 Concepts of

Physical Activity..... 1 Credit Hour

Activities (to be determined by concepts course)..... 3 Credit Hours

Associate Degree Programs

Missouri Western College offers the associate of science degree with majors in various fields. In order to earn this degree, students must complete the general requirements as listed below and the specific major and (where required) minor requirements as listed under each department.

For general degree requirements, see the Associate Degree section in Requirements for Graduation.

The associate of science degree is designed for the student who desires a concentrated program (usually technical in nature) in preparation for employment in business, industry, health care, or public services. The degree is available with majors in agri-business, agricultural supply technology, automotive technology, construction engineering technology, corrections, criminal justice, electronic engineering technology, executive secretary, lawyers' assistant, midmanagement, nursing, pilot training, and teacher's aide.

2 Year**General Studies Program****Credit Hrs.****Area I**

Communications

ENG 104 Composition and Rhetoric I3

One of the following courses:3 6

SPH 104 Oral Communication

SPH 105 Professional Speech

SPH 106 Public Speaking

Area II

Social Sciences

One of the following courses.....3 3

PSC 101 American National Government

HIS 140 American History to 1865

HIS 150 American History Since 1865

Area III

Humanities

One of the following courses:3 3

- THR 113 Introduction to Theatre
- HUM 203 Humanities I
- HUM 205 Humanities II
- HUM 210 Introduction to Philosophy
- FRE 102 Elementary French I
- GER 102 Elementary German I
- SPA 102 Elementary Spanish I
- ART 100 Introduction to Art
- MUS 101 Perspectives in Music

Area IV

Physical Education

PED 104 Concepts of Physical Activity 1 2

Physical Education Activity.....1 2

TOTAL Credit Hrs.14

1 Year Certificate Programs

Missouri Western State College offers certificate programs with majors in various fields. In order to earn the certificate, students must complete a minimum of thirty semester credit hours with a minimum cumulative grade point average of 2.00 (C average). Certificates are offered in clerical, lawyer's assistant, secretarial and small engine repair. Specific course re-

quirements are listed under the area housing the certificate.

Transfer Programs

Pre-professional programs in specialized fields are offered for students who plan to transfer to a university for the completion of their studies. Students choosing these programs should select their transfer institution early and should work closely with their academic adviser and counselor here.

The following areas are those which serve most students interested in transfer programs:

- | | |
|--------------|------------------|
| Architecture | Mortuary Science |
| *Dentistry | Optometry |
| Engineering | Pharmacy |
| Journalism | Physical Therapy |
| Law | *Veterinary |
| *Medicine | Medicine |

*A four-year degree is desirable before applying for acceptance into the professional school of your choice. Therefore, students with aspirations in these areas are invited to consider the Bachelor of Arts degree with a major in natural science.

ACADEMIC POLICIES AND REGULATIONS

Class Attendance

Regular class attendance is considered an essential part of the student's educational experience, and a requirement for an adequate evaluation of student academic progress.

Each instructor will determine and make known to the class requirement for attendance.

Class Auditors

A class auditor is a student registered for a course for no credit but for informational instruction. A student may audit a course for a number of reasons ranging from skill improvement through a review prior to registering for credit. Regardless of the student's purpose, it is important that the student gets a meaningful experience from instruction and makes satisfactory progress toward his purpose. It is the role of the instructor to aid the student in this determination. Therefore, audit students should expect to work closely with their instructors.

A student who enrolls in a class for credit, may choose to change that registration to audit prior to the end of the sixth week of the semester. A change from audit to credit must be completed by the end of the first week of classes.

Course Load

The normal load which may be carried by a student is 15 to 17 hours per semester or 7 to 9 hours in a summer term, exclusive of required physical education activities. This includes day and evening enrollment combined.

Upon recommendation of the faculty adviser and the approval of the division dean, a student who has a 3.0 term grade point average may take additional credit the following semester.

A student cannot enroll as an auditor in excess of a normal load.

Students who find it necessary to work in order to attend college should adjust

their course load to their work load. Students should use the following schedule as a guideline to determine their course load:

Hours Worked Per Week	Course Load
15-20 hrs.	12 credit hrs.
20-30 hrs.	9 credit hrs.
30-35 hrs.	6 credit hrs.
35-40 hrs.	3 credit hrs.

Change of Schedule

All class or schedule changes must be made by petition. In order to drop or add a course, it is necessary for a student to secure a change of study form and present the petition to the Admissions and Records Office. Change may be made during the following time periods:

REGULAR SEMESTER

Add — During first week only.

Drop — First through the 10th week. Courses dropped through the fourth week will not appear on the transcript as attempted classes.

Courses dropped from the fifth week through the 10th week will be assigned a grade of "W".

After the 10th week of classes and before the beginning of final examinations a student may drop a course only by official complete withdrawal from the college, in which case a "W" is recorded for each course in which the student was enrolled.

SUMMER SESSION (8 weeks)

Add — First three days only.

Drop — First through the fifth week. Courses dropped through the second week will not appear on the transcript as attempted classes.

Courses dropped from the third week through the fifth week will be assigned a grade of "W".

From the sixth week through the end of the Summer Session a student may drop a course only by official complete withdrawal from college, in which case

a "W" is recorded for each course in which the student was enrolled.

Grading System

Grades used in evaluating the work of students are as follows:

Letter Grade and Level of Performance	Grade Points Earned
A superior	4 for each credit hr.
B good; above average	3 for each credit hr.
C average	2 for each credit hr.
D minimum passing; below average	1 for each credit hr.
F failing	0 for each credit hr.
Inc. incomplete	
W withdraw, no grade assessment	
Aud audit	
Cr. credit	

Students who take courses that are evaluated by a pass-fail criteria will receive the number of credit hours for that course, with a grade of Cr. A failure will result in a grade of F and no credit. Hours earned by pass-fail will not be used in computing grade point averages for honors.

Grade point averages are used to determine an individual's class standing and eligibility for graduation, the Dean's and President's Honor Lists, and membership in honor societies.

Incomplete Grades

An incomplete grade must be removed within six weeks after the close of the semester in which it was received; otherwise, the grade will be recorded as "F". Appeals for an extension of the time may be made to the department chairman and appropriate division dean.

Honor Lists

A President's Honor List is published at the end of each semester. To be included on the President's List, a student must be carrying twelve or more credit hours of work with a grade point average of 4.00 exclusive of pass/fail credit or audits.

A Dean's Honor List is published at the end of each semester. To be included on the Dean's List, a student must be carrying twelve or more credit hours of work with a grade point average of 3.5 or higher exclusive of pass/fail credit or audits.

Records of Academic Work and Transcripts

Unofficial transcripts will be stamped, "Unofficial, For Campus Use Only," and will not contain a certifying signature, date of issue, or college seal. Such transcripts are designed to be used by MWSC personnel only.

Official transcripts will be stamped with a certifying signature and date of issue, and will have the impression of the college seal. Official transcripts may be picked up in the Records Office or they will be mailed upon request. A fee of \$1.00 per copy will be charged.

All official transcripts issued to students will be stamped, "Issued to Student". Official transcripts will not be issued to or for students who are indebted to the college until such indebtedness has been paid in full.

Scholastic Probation

A student is on scholastic probation if the cumulative grade point average drops below the following minimum requirements:

- I. If the total hours attempted are less than 55 semester hours and his cumulative grade point average is more than 5 grade points below a 2.0 (C) average.
- II. If the total credit hours attempted are 55 or more and his cumulative grade point average is less than a 2.0 (C) average. (Refer to Table of Academic Standards.)

Scholastic Suspension

A student is on scholastic suspension if his/her cumulative grade point average drops below the following minimum requirements:

must have completed 20 or more semester hours of course work and have been on probation the previous semester.

must be more than eighteen (18) grade points below a 2.0 (C) cumulative grade point average.

no student with a cumulative Grade Point average of 1.85 or above will be suspended.

no student with a term G.P.A. of 2.0 or

above will be suspended.

any student placed on Scholastic Suspension has the right to appeal in writing to the Academic Regulations & Standards Committee.

A student suspended from the College who feels his/her case warrants special consideration may petition the Academic Regulations & Standards Committee provided such appeal is made immediately following notification of suspended status. Circumstances beyond the student's control must be presented before reinstatement will be considered. If reinstatement is granted, it will be on a probationary basis. (Refer to Table of Academic Standards.)

Readmission

A student placed on scholastic suspension the first time may be readmitted after the lapse of one academic semester provided a written petition for return is filed at least four weeks prior to the beginning of the session when eligible to return. Such petition should be directed to the Director of Admissions and Records. A student placed on scholastic suspension the second time after being readmitted may again be readmitted after the lapse of the academic year provided a written petition for return is filed at least eight weeks prior to beginning of the session when eligible to return. Such petition should be directed to the Academic Regulations and Standards Committee and submitted to the Vice-President for Student Affairs.

Reinstatement after any type of suspension will be granted on a probationary basis.

Repeating Courses

A student is permitted to repeat any course. (The Pass/Fail Option cannot be used to repeat a course in which a prior letter grade of A, B, or C was earned.) Grades earned in the last attempt are used in calculating grade point average.

Withdrawal From College

A student will be given a "failing" grade in each subject if the formal notification of withdrawal has not been accomplished. A student must notify the Admis-

sions and Records Office in writing. The effective date of withdrawal will be on the date on which the student made the initial contact.

Description of Courses

All courses offered at the College are listed by divisions and departments. Prior to the opening of each term a Class Schedule is published that lists the specific courses to be offered that term with the time of meeting, the building and the room number. The College reserves the right to cancel without notice any course listed in the *General Catalog* or in the *Class Schedule* for any term or to withdraw any course that does not have adequate student enrollment at the close of the registration period.

Course Numbering System

Each course bears a number that identifies it and indicates its level, as follows:

000-099 courses that usually do not apply toward a degree.

100-199 Freshman level courses

200-298 Sophomore level courses

300-399 Junior level courses

400-498 Senior level courses

Normally, courses numbered 100-299 are considered lower division courses, and those numbered 300-499 are considered upper division courses.

Special Topics Courses

Departments may offer special topics courses without prior approval of the Curriculum Committee on a single offering basis in order to experiment with innovative methods or content or to take advantage of visiting staff. Course numbers 299 and 499 are reserved for assignment to special topics courses.

Credit Units

The unit of credit is the semester hour, which represents a period of weekly study for a semester. In general, a course carrying three hours credit meets for three periods weekly for one semester. The number of credit hours is shown in parentheses after the course title.

Semester Designation

The small Roman numerals, following the title of the course and the credit shown in parentheses, indicate the semester in which the course is normally offered.

- i the course is offered in the fall semester
- ii the course is offered in the spring semester
- iii the course is offered in the summer session



Table of Academic Standards

Hours Attempted	Cumulative Grade Points		Hours Attempted	Cumulative Grade Points	
	Probation Less than	Suspension Less than		Probation Less than	Suspension Less than
3	1		62	2.0 GPA	106
4	3		63	2.0 GPA	108
5	5		64	2.0 GPA	110
6	7		65	2.0 GPA	112
7	9		66	2.0 GPA	114
8	11		67	2.0 GPA	116
9	13		68	2.0 GPA	118
10	15		69	2.0 GPA	120
11	17		70	2.0 GPA	122
12	19		71	2.0 GPA	124
13	21		72	2.0 GPA	126
14	23		73	2.0 GPA	128
15	25		74	2.0 GPA	130
16	27		75	2.0 GPA	132
17	29		76	2.0 GPA	134
18	31		77	2.0 GPA	136
19	33		78	2.0 GPA	138
20	35	22	79	2.0 GPA	140
21	37	24	80	2.0 GPA	142
22	39	26	81	2.0 GPA	144
23	41	28	82	2.0 GPA	146
24	43	30	83	2.0 GPA	148
25	45	32	84	2.0 GPA	150
26	47	34	85	2.0 GPA	152
27	49	36	86	2.0 GPA	154
28	51	38	87	2.0 GPA	156
29	53	40	88	2.0 GPA	158
30	55	42	89	2.0 GPA	160
31	57	44	90	2.0 GPA	162
32	59	46	91	2.0 GPA	164
33	61	48	92	2.0 GPA	166
34	63	50	93	2.0 GPA	168
35	65	52	94	2.0 GPA	170
36	67	54	95	2.0 GPA	172
37	69	56	96	2.0 GPA	174
38	71	58	97	2.0 GPA	176
39	73	60	98	2.0 GPA	178
40	75	62	99	2.0 GPA	180
41	77	64	100	2.0 GPA	182
42	79	66	101	2.0 GPA	184
43	81	68	102	2.0 GPA	186
44	83	70	103	2.0 GPA	188
45	85	72	104	2.0 GPA	190
46	87	74	105	2.0 GPA	192
47	89	76	106	2.0 GPA	194
48	91	78	107	2.0 GPA	196
49	93	80	108	2.0 GPA	198
50	95	82	109	2.0 GPA	200
51	97	84	110	2.0 GPA	202
52	99	86	111	2.0 GPA	204
53	101	88	112	2.0 GPA	206
54	103	90	113	2.0 GPA	208
55	2.0 GPA	92	114	2.0 GPA	210
56	2.0 GPA	94	115	2.0 GPA	212
57	2.0 GPA	96	116	2.0 GPA	214
58	2.0 GPA	98	117	2.0 GPA	216
59	2.0 GPA	100	118	2.0 GPA	218
60	2.0 GPA	102	119	2.0 GPA	220
61	2.0 GPA	104	120 or over	2.0 GPA	1.85 GPA

REQUIREMENTS FOR GRADUATION

Major-Minor Application

Every degree candidate must have on file in the Admissions and Records Office an approved Major-Minor Application form. This application is normally completed early in the student's college career. For additional information consult the Student Affairs section of this catalog.

Grade Point Average

A student's grade point average is based only on courses taken at Missouri Western State College. A transfer student who is admitted with less than a "C" average will be required to make up the grade point deficiency.

General Degree Requirements for Baccalaureate Programs

- A student must meet the general studies requirements
- A student must have a minimum of 124 credit hours (including 60 from a senior college)
- A student must have a cumulative grade point average of 2.0 (C average)
- A student must have a GPA of 2.0 or better in courses comprising the major in addition to meeting other institutional graduation requirements
- A student must have a minimum of 30 semester hours in the upper division courses (numbers in the 300's and 400's with adjustments in the two-plus-two programs)
- A student must earn 30 of the last 45 semester hours at MWSC in resident course work.
- A student must take the graduate record examination as a senior except in those instances where a department has selected an appropriate substitute for its major. Such a substitution must be approved by the dean and the Vice President for Academic Affairs. Dates for the graduate exam may be secured from

the office of the Director of Counseling and Testing.

General Degree Requirements for Associate Programs

- A student must meet the general studies requirements
- A student must have a minimum of 62 credit hours
- A student must have a cumulative grade point average of 2.0 (C average)
- A student must earn the last 15 semester hours at MWSC in resident course work
- A student must have a GPA of 2.0 or better in courses comprising the major in addition to meeting other institutional graduation requirements

State Legislation Requirement

Section 10370, 10374, 10374a, 10374b, 10374c (SCS for SB 4) of the laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American Institutions." Students may comply with the law by successfully completing ONE of the following courses at MWSC; HIS 140, American History to 1865; or HIS 150, American History since 1865; or PSC 101, American National Government; or by completion of an equivalent course (as evaluated at MWSC) from another institution.

Application for Graduation

To be considered as a candidate for graduation, it is required that the student declare candidacy by filing an Application for Graduation in the Office of Admissions and Records, SS/C 114, prior to the following deadlines:

Fall graduates — July 1

Spring graduates — November 1
Summer graduates — April 1

Applications for Graduation will be accepted and processed after the above dates and will not affect the actual graduation of the student. Late applications will, however, possibly curtail the ability of the college to provide all services to the candidate.

Multiple Degrees

The college offers six baccalaureate degrees:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Science in Business Administration
- Bachelor of Science in Education
- Bachelor of Science in Technology
- Bachelor of Social Work

The college will confer two baccalaureate degrees provided:

- The student meets graduation requirements for each degree
- The student has earned a minimum of 144 hours
- The student pays an additional \$5.00 fee for the additional diploma

Double Majors

In the area of a double major, the departments involved will coordinate their efforts to resolve any possible problems. Courses which may count toward both majors will be allowed to do so.

Graduate Honors

Students completing degree requirements with a cumulative grade point average of 3.9 or higher will be graduated with Highest Honors (summa cum laude). Those who have earned a grade average of 3.75 or higher but below 3.9 will be graduated with High Honors (magna cum laude). Those who have earned a grade average of 3.5 or higher but below 3.75 will be graduated with Honors (cum laude).

Commencement

Commencement is held at the end of the spring semester. It is a voluntary activity on the part of the student. Candidates for degrees, who will complete all requirements for the degree during the summer session, may elect to attend spring commencement. Names will appear on the commencement program and the candidates will be recognized. The degree will not be awarded until the close of the summer session.

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THE DIVISION OF CAREER PROGRAMS

The division includes the department of Nursing and programs in Automotive Technology, Criminal Justice, Corrections, Lawyers' Assistant, Secretarial Science, Small Engine Repair, Pilot Training, Agriculture Technology, Construction Engineering Technology, Electronic Engineering Technology, and Mid-Management.

The Division of Career Programs is organized to provide career-oriented education leading to one-year certificates and the Associate of Science Degree. Programs of study are offered which prepare individuals to enter into/or advance in careers within business, industry, public service, and health care.

The overall philosophy of the Division of Career Programs is to create a learning environment which promotes the acquisition of academic knowledges and the development of practical skills based upon the individual students' needs.

The Division of Career Programs strives to provide curricula based upon documented requirements for employment opportunities.

The objectives of the Division of Career Programs are:

- To build the framework of basic knowledges underlying the chosen career program;

- To provide situations of study in which skills for a career can be developed and utilized by the student;

- To promote an environment conducive to learning not only the skills and knowledges, but also the proper attitudes necessary to achieve and become productive in their chosen career area;

- To advise students in selecting educational experiences which will facilitate their educational development in their career field and in general education;

- To assist the program graduates in securing responsible positions in their chosen careers.

C. Esry — chairman
L. Bade
J. Boye
H. Buckles

J. Hoagland
S. McGinley
K. Noland
J. Utz

The department offers a nursing program leading to an Associate of Science degree. Specific course content and planned learning experiences emphasize nursing concepts of the well person and progresses to nursing concepts of the ill person.

These objectives are believed to be essential learning needs for students in the Nursing program:

To relate the basic biophysical and psychosocial factors that influence an individual's behavior and his ability to maintain homeostasis,

To apply the body of knowledge that is a basis for direct nursing care to patients,

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To utilize the problem-solving approach as a basis for action in giving nursing care,

To develop the ability to give nursing care to patients based on immediate and long-range goals,

To identify responsibilities and relationships of the professional nurse with other members of the health team and,

To practice nursing adhering to the principles of safe and legal client care.

Students in the associate degree program must maintain a minimum lecture aver-

age of seventy percent and a clinical evaluation of Satisfactory in each nursing course. A minimum grade of C in each course in the major is required for graduation from the Nursing program.

Upon completion of the program the graduate is eligible to write the State Board Test Pool Examination to qualify for licensure as a registered professional nurse (R.N.) This program is accredited by the Missouri State Board of Nursing.

Admission to the Nursing Program

A selection committee reviews all applicants and determines those students who will be admitted to each class. To be eligible for possible selection for the fall class, an individual must contact the department chairperson for an application form which must be returned by Feb. 1. Other requirements for admission will be explained upon contact with the chairperson.

The laboratory experience in the nursing program requires special uniforms. The cost for this will be approximately \$40.00.

An Associate of Science degree with a major in Nursing requires the completion of the following specific courses: NUR 150, 151, 250, 251; BIO 250 and 251; PSY 101; SOC 110; CHE 104.

NUR 150 Nursing I (Fundamentals of Nursing) (6)
Fundamentals is a coordinated study of concepts, skills, and attitudes basic to patient care, safety, and comfort; emphasizing orientation of the student to the individual, his health, and to the community health agencies. Guided laboratory experience in an extended care unit and a general hospital. Opportunity to observe health care and community services in a variety of settings. 4 hours lecture, 6 hours lab.

Prerequisite: Approval of department chairman.

NUR 151 Nursing II (Maternal and Child Health) (8)
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A family centered approach to Maternal and Child Health, building upon the concept of wellness and homeostasis introduced in fundamentals course. Concerned with maternity cycle and the family unit. Emphasis is placed upon the normal health continuity from infancy to adulthood. Guided laboratory experience in a general hospital and selected clinic, outpatient and day care experience. 4 hours lecture, 12 hours lab.

Prerequisite: Nursing 150.

NUR 250 Nursing III (Physical and Mental Illness I) (10) i

The first course in Physical and Mental illness is designed for utilization of a conceptual and developmental approach in meeting nursing care and body maintenance needs. Focus is on the physical and psychological effects of illness. Guided laboratory experience in a general hospital, psychiatric setting, and selected observation experiences. 5 hours lecture, 15 hours lab.

Prerequisite: Nursing 151.

NUR 251 Nursing IV (Physical and Mental Illness II) (10) ii

The course Physical and Mental illness is a continuation of Nursing 250 and provides the student with opportunities to give total patient care to individuals and groups of adults and children with identical and similar illnesses. Guided laboratory experience in a general hospital and selected health agencies. 5 hours lecture, 15 hours lab.

Prerequisite: Nursing 250.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE
NURSING**

Freshman Year

Fall Semester

NUR 150	Nursing I.....	6
BIO 250	Anatomy and Physiology.....	5
CHE 104	Fundamentals of Chemistry.....	4
ENG 104	English Composition.....	3
		<hr/>
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Spring Semester

NUR 151	Nursing II.....	8
BIO 251	Public Health Microbiology.....	4
PED 101	Concepts of Physical Activity.....	1
SOC 110	General Sociology.....	3
		<hr/>
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Sophomore Year

Fall Semester

NUR 250	Nursing III.....	10
PSC 101	American National Government or American History or	
HIS 140	American History.....	3
HIS 150	American History.....	3
PSY 101	General Psychology.....	3
	P.E. Activity.....	1
		<hr/>
		17

Spring Semester

NUR 251	Nursing IV.....	10
	General Studies III Elective.....	3
SPH	104, 105, or 106.....	3
		<hr/>
		16

AUTOMOTIVE TECHNOLOGY

R. Bandelier

and Automotive Service Departments of various sized companies.

An Associate of Science degree with a major in Automotive Technology requires the completion of the following specific courses: AUT 111, 120, 150, 180, 199, 200, 250, 255, 270; EGT 103 and 104; MAT 105; and MGT 110.

The Automotive Technology program is designed to prepare individuals to become automotive technicians and automobile service managers. Career opportunities include positions with:

Automobile and truck dealers; Service Stations; Automotive Service Centers;

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AUT 111 Automotive Engine Theory & Analysis (5) i
A beginning course in theory and practical mechanics of the internal combustion engine. Emphasis on operation principles of four-cycle engines. Students work in the laboratory with engines to learn mechanical relationships and usage of tools and gauging instruments. Three hours lecture and four hours lab.

AUT 120 Automotive Suspension and Chassis (4) i
A course designed to acquaint the student with various automotive chassis and suspension systems and the related components which initiate braking, steering, and spring controls of present-day automobiles. Includes front-end geometry, front-end alignment, acquaintance of manual and power assist steering units, manual and power assist braking design and service, and front and rear suspension design and service. Two hours lecture and four hours lab.

AUT 150 Automotive Electrical and Fuel Systems (5) ii
A beginning course in automotive electricity, basic automotive ignition systems, fuels and lubricants, production and testing. Emphasis is on electrical fundamentals as related to spark ignition and carburetion principles. Laboratory periods provide opportunity to learn mechanical relationships of parts in carburetors, starters, generators, regulators, relays, and distributors. Three hours lecture and four hours lab.
Prerequisite: EGT 103.

AUT 180 Power Transmission (4) ii
A course encompassing components of the modern automotive power train mechanisms. It is designed to familiarize the student with the total automotive drive train covering components located between the engine and the drive wheels. Included are clutches, fluid couplings and torque converters, standard transmissions, overdrives, fundamentals of automatic transmissions, universal joints, drive shafts, differentials, and transaxles. Two hours lecture and four hours lab.

AUT 199 Automotive Technology Practicum (3-5) ii, iii
Designed to provide the student with the opportunity to apply formal training to actual work situations. The student will work in a job related to his area of interest and will be evaluated by the participating employer for course credit.
Prerequisite: All lower numbered automotive classes.

AUT 200 Principles of Diesel Power (5) i
Design principles and maintenance of two-stroke cycle and four-stroke cycle, diesel engines, and their application to modern transportation. Emphasis on pump testing and injector testing and reconditioning. Three hours lecture and four hours lab.
Prerequisite: AUT 111 and AUT 150.

AUT 250 Service Management Seminar (3) i
A seminar designed to acquaint students with the operation of various types of automotive service businesses by utilizing guest speakers from the automotive industry in conjunction with related classroom material. Guest speakers include service advisors, service foremen or managers, factory service representatives, parts store managers, small business administration, bankers, insurance companies, specialty shop managers, and representatives from oil companies. Three hours lecture.

AUT 255 Service Techniques Laboratory (4) ii
Practical garage experience in all phases of automotive servicing with related technical content devoted to diagnosis, trouble shooting, and shop management. Eight hours lab.
Prerequisite: All lower numbered automotive classes.

AUT 270 Automotive Air Conditioning and Accessories (4) ii
A course to familiarize the student with automotive air conditioning units and power accessories. The emphasis is placed on service and diagnosing of these units on and off the vehicle. Two hours lecture and four hours lab.
Prerequisite: AUT 150.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
AUTOMOTIVE TECHNOLOGY**

**Freshman Year
Fall Semester**

AUT 111	Auto. Eng. Theo. & Analysis.....	5
AUT 120	Auto. Suspension & Chassis.....	4
EGT 103	Electrical Systems.....	3
EGT 104	Engineering Graphics.....	3
PED 101	Concepts of Physical Activity.....	1
		<hr/>
		16

Spring Semester

AUT 150	Auto. Electrical & Fuel Systems.....	5
AUT 180	Power Transmission.....	4
MAT 105	College Algebra.....	3
ENG 104	Composition & Rhetoric I.....	3
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		15

Summer Session

AUT 199	Automotive Technology Practicum.....	3-5
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Sophomore Year

Fall Semester

AUT 200	Principles of Diesel Power.....	5
AUT 250	Service Management Seminar.....	3
MGT 110	Business Organization.....	3
SPH	Speech.....	3
PED	P.E. Activity.....	1
		<hr/>
		15

Spring Semester

AUT 255	Service Techniques Laboratory.....	4
AUT 270	Auto. Air Cond. & Accessories.....	4
PSC 101	American Government or 140 American History, or 150 American History.....	3
	General Studies III elective.....	3
		<hr/>
		14

program in

SMALL ENGINE REPAIR

The Small Engine Repair Program is designed to prepare individuals to enter the Small Engine Repair field as service technicians or service managers. Career opportunities include positions with:

Lawn and Garden Service Centers, Farm Implement Dealers, and retail outlet stores for motorcycles, outboard mo-

D. Prock

tors, snowmobiles and other recreation vehicles.

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A certificate with a major in Small Engine Repair requires the completion of the following specific courses: SER 100, 110, 120, 130, 190; MGT 110 and 116; PSY 101; AUT 250 and EGT 250.

Small Engine Repair

SER 100 Basic Small Engines (3) i

A beginning course in the basic operating principles of two and four cycle small gas engines with an introduction to the mechanics of diesel and rotary engines. Disassembly, inspection, measurements, adjustments, and assembly procedures are discussed and demonstrated in the lecture class with practical application during lab session. 2 hours lecture, 3 hours lab.

SER 110 Electrical and Charging Systems (3) i

A course covering the basics of electrical theory and the principles of operation of such units as magnetos, starters, generators, alternators, and charging system regulators are covered in the classroom. Lab sessions will include demonstration of testing and servicing procedures of these units with up-to-date test equipment by the instructor followed by student participation. 2 hours lecture, 3 hours lab.

SER 120 Fuel and Governor Control Systems (3) ii

Principles of fuel system operation, various types of carburetors used on small engines and different types of throttle and governor controls are covered. The calibrating and maintaining of speed and governor control assemblies are covered in detail. Lecture sessions will be reinforced with pertinent lab activities. 2 hours lecture, 3 hours lab.

SER 130 Small Engine Power Transmission (3) ii

Power transmission and control units for recreational and lawn and garden equipment such as lawn mowers, motorcycles, and tillers are covered in the lecture series. Disassembly, assembly and adjustments of gear drive transmissions, belt drivers, hydraulic transmissions, trans-axle drives, power take-off units, power lifts and torque converters will be demonstrated by the instructor with organized student activity. 2 hours lecture, 3 hours lab.

SER 190 Small Engine Repair Practicum (5) iii
 Designed to provide the student with the opportunity to apply formal training to actual work situations. The student will work in a job related to his area of interest and will be evaluated by the participating employer for course credit.
Prerequisite: Consent of instructor.

**SAMPLE PROGRAM
 CERTIFICATE
 SMALL ENGINE REPAIR**

Fall Semester

SER 100	Basic Small Engines	3
SER 110	Electrical and Charging Systems	3
MGT 110	Business Organization.....	3

AUT 250	Service Management Seminar.....	3
		12

Spring Semester

SER 120	Fuel and Governor Control Systems.....	3
SER 130	Small Engine Power Transmission	3
MGT 116	Business Mathematics	3
PSY 101	General Psychology	3
EGT 250	Technical Report Writing.....	2
		14

Summer Session

SER 190	Small Engine Practicum.....	5
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program in

CRIMINAL JUSTICE

J. Hayes
 L. Maxwell, Jr.

Agencies; Corrections; Private Investigative Agencies, and Industrial Security. An Associate of Science Degree with a major in Criminal Justice requires the completion of the following specific courses: LAW 100, 120, 140, 160, 180, 200, 220, 260, 280, 290; SOC 110; PSC 101; and PSY 101.

The Criminal Justice program seeks to prepare individuals to enter into and/or advance in the criminal justice system in any of the following areas:

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State, County, and Local Law Enforcement Agencies; Federal Investigative

LAW 100 Introduction to Criminal Justice (3) i, ii, iii
 A survey of the philosophical and historical background of criminal justice. Reviews the principles underlying social organization control devices with an emphasis upon such legal systems as the criminal courts, corrections, and law enforcement. Designed to provide general knowledge about the concept and causes of crime, the varying goals and objectives of the criminal justice system with particular regard to an assessment of the specific role performance of various members of the criminal justice system.

LAW 110 Juvenile Delinquency (3) i, ii
 The study of the delinquent juvenile as an individual and the impact on society. Investigates delinquency, causation, the role of the law enforcement officer, the juvenile officer, the juvenile court, and juvenile corrections.

LAW 120 Patrol Operations (3) i, ii, iii
 A survey of the responsibilities and duties of the uniformed patrol. Special emphasis is placed upon patrol procedures, the mechanics of arrest, search and seizure, the interpretation and evaluation of information received on patrol, and the importance of accurate report writing.

LAW 140 Traffic Control and Accident Investigation (3) i, ii, iii
 An introduction to traffic control and accident investigation in modern cities. Reviews the principles of organizing and administering police units for traffic enforcement, accident prevention and safety education. Presents the basic techniques of accident investigation, analysis, and interpretation.

LAW 150 Criminal Justice Report Writing (3) ii
 An interdisciplinary approach toward the attainment of precise report writing within the field of criminal justice. Emphasis is placed upon the acquisition of criminal justice terminology and familiarity with spelling and definitions in criminal justice. Students will be required to demonstrate various report formats and be capable of writing precise and grammatically correct reports.
Prerequisite: ENG 104 or consent of instructor.

LAW 160 Principles of Investigation (3) i, ii, (iii odd years)
 An introductory course on modern investigative methodology. Particular attention is given to the importance of information, interrogation, and instrumentation in the solution and preparation of criminal cases

for trial.

Prerequisite: Law 100.

LAW 180 Public Service and Community Relations (3) i, (iii odd years)

Presents a survey of the public service agency and its role in the community. Emphasis is placed upon the importance of the individual and his relationship to the public he serves. Outlines a general program of community relations to be undertaken by public service agencies.

Prerequisite: Law 100.

LAW 200 Penology and Corrections (3) ii

Presents the origins and theories of punishment and the prison system. Introduces the principles and programs of institutional correction and special problems in administration. Reviews the modern recommendations for improvement of the system.

Prerequisite: Six hours in the field of Criminal Justice.

LAW 220 Police Administration (3) i, (iii even years)

An introductory survey of current police administrative methodology. Reviews the organization of the police service, analysis of police functions, principles of police management, operational services within police agencies, and the role of the police administrator in personnel assignment and evaluation.

Prerequisite: Six (6) hours in the field of Criminal Justice.

LAW 260 Criminal Law (3) i, (iii even years)

Explores the origin, development, and classification of substantive criminal law. Reviews the rules of evidence of particular importance at the operational level of law enforcement and criminal procedures in arrest, force, search and seizure.

Prerequisite: Nine (9) hours in the field of Criminal Justice.

Law 280 Criminalistics (3) ii

An introductory survey of modern methodology for police laboratories. Reviews the need for professional investigations while introducing the student to the means of achieving high degrees of proficiency in the field of scientific criminal inquires.

Prerequisite: Fifteen (15) hours in the field of Criminal Justice.

LAW 290 Practicum in Criminal Justice (3) i, ii, iii

A course of instruction designed to provide students with practical experience in a supporting capacity within a local criminal justice agency.

Prerequisite: Consent of Instructor.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
CRIMINAL JUSTICE**

Freshman Year

Fall Semester

LAW 100	Introduction to Criminal Justice	3
LAW 120	Patrol Operations	3
LAW 140	Traffic Control & Acc. Investigation.....	3
SOC 110	General Sociology	3
SPH	104, 105, or 106	3
	—	15

Spring Semester

LAW 160	Principles of Investigation	3
LAW 200	Penology and Corrections	3
ENG 104	Composition & Rhetoric I	3
PSC 101	American National Government	3
	General Studies III elective.....	3
	—	15

Sophomore Year

Fall Semester

LAW 180	Public Service & Community Relations..	3
LAW 220	Police Administration	3
LAW 260	Criminal Law	3
PSY 101	General Psychology	3
PED 101	Concepts of Physical Activity.....	1
	Supporting Elective	3
	—	16

Spring Semester

LAW 280	Criminalistics.....	3
LAW 290	Practicum in Criminal Justice.....	3
	Supporting Electives	9
	Physical Activity.....	1
	—	16

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program in

CORRECTIONS

T. Doerr

Federal, State, County or Local Correctional Facilities;

Federal, State, or County Probation and Parole Departments.

The Corrections program is designed to prepare persons to enter into or advance in careers related to the control, diagnosis, and treatment of criminal offenders in any of the following areas:

An Associate of Science Degree with a major in Corrections requires the completion of the following specific courses:

Law 100, 110, 160, 200, 205, 210, 215, 230, 250, 270, 290; SOC 110; PSC 101; and PSY 101.

Corrections

LAW 205 Institutional Procedures, Jails, and Detention (3) ii
The function of the custodial staff is examined with special emphasis on the correctional officer. Institutional procedures are reviewed, including reception, classification, program assignment, and release procedures. The jail programs that are or could be implemented are reviewed. Juvenile detention facilities and practices are examined.

LAW 210 Legal Rights of the Confined (3) i
An overview of the legal rights of inmates, both pre and post conviction. This course undertakes an indepth analysis of administrative restrictions relating to inmates rights and reviews legal and practical remedies to insure the granting of these rights. Discovery of the relationship between the granting of their (inmates) legal rights and probable rehabilitation.
Prerequisite: LAW 100.

LAW 215 Essentials of Interviewing (3) i, ii
An examination of fundamental concepts of verbal communication as applied to interview situations within the criminal justice system. Emphasis is placed upon interviewing theories and techniques, legal aspects of interviewing and interrogation, and actual and mock interview experiences.
Prerequisite: Introductory Speech.

LAW 230 Contemporary Practices in Corrections (3) i
Modern trends in corrections, such as the community-based programs in work release, halfway houses, contract program planning, as well as the therapeutic community and treatment team concept in institutions, are described and evaluated.
Prerequisite: LAW 100.

LAW 250 Prison Organization and Operation (3) ii
The organization of various institutions are studied. Treatment, custody, and support activities are examined as entities and in relation to each other. Students construct an organization chart for a model prison and functional charts for the various departments within the prison.
Prerequisite: LAW 200.

LAW 270 Probation and Parole (3) ii
Probation and parole are viewed as alternatives to confinement and are examined with respect to their effectiveness in curbing future criminal behavior on the part of probationers and/or parolees.
Prerequisite: LAW 200.

SAMPLE PROGRAM ASSOCIATE OF SCIENCE DEGREE CORRECTIONS

Freshman Year

Fall Semester

LAW 100	Introduction to Criminal Justice	3
LAW 110	Juvenile Delinquency	3
SPH	Speech	3
PSY 101	General Psychology	3
SOC 110	General Sociology	3
PED 101	Concepts of Physical Activity	1
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		16

Spring Semester

LAW 160	Principles of Investigation	3
LAW 200	Penology and Corrections	3
LAW 205	Institutional Procedures, Jails and Detention	3
ENG 104	Composition and Rhetoric I	3
SOC 230	Social Institutions	3
PED	Physical Education Activity	1
		—
		16

Sophomore Year

Fall Semester

LAW 210	Legal Rights of the Confined	3
LAW 215	Essentials of Interviewing	3
LAW 230	Contemporary Practices in Corrections	3
	General Studies III elective	3
PSC 101	American National Government	3
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		15

Spring Semester

LAW 250	Prison Organization and Operations	3
LAW 270	Probation and Parole	3
LAW 290	Practicum in Criminal Justice	3
	Supporting Electives	6
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		15

SECRETARIAL SCIENCE

S. Downey
M. Rogers

P. Shaw
S. Storer

The Secretarial Science Program, with individualized typewriting and shorthand classes, is designed to prepare individuals for clerical and secretarial careers in various public and private organizations, such as:

Educational institutions, government agencies, manufacturing companies, law firms, medical institutions, and insurance agencies.

An Associate of Science Degree with a major in Executive Secretary requires the completion of the following specific courses: SEC 141, 145, 230, 240, 340, 341, 350, 351 and 352; MGT 110, 116, or 210; ACC 230; ECO 260; and CSC 182.

SECRETARIAL CERTIFICATE:

Option I — MGT 110 and 116; ENG 104; SEC 141, 144, 145, 230, 240, and 351; One of the following: SEC 220; PSY 101; SPH 104 or 105; CSC 182; ACC 230.

Option II — MGT 110 and 116; ENG 104; SEC 141, 145, 230, 240, 340, and 351; One of the following: SEC 220; PSY 101; SPH 104 or 105; CSC 182; ACC 230.

CLERICAL CERTIFICATE:

MGT 110 and 116; ENG 104; ACC 230; SEC 141, 230, 240, and 351; Two of the following: SEC 220; PSY 101; SPH 104 or 105; CSC 182; ACC 231; ECO 260.

- SEC 140 Elementary Typewriting (3) i, ii, iii**
Beginning typewriting with emphasis on techniques of typewriter operations, skill development, and typing of letters and manuscripts. 3 hours lecture, 2 hours lab.
- SEC 141 Intermediate Typewriting (3) i, ii, iii**
Emphasis on developing speed and accuracy, typing business letters, manuscripts, and business forms. Minimum net speed of 25 words per minute is needed to take this course. Three hours lecture and two hours lab.
Prerequisite: SEC 140 or equivalent.
- SEC 144 Elementary Shorthand (3) i, ii**
Beginning course in which principles of Gregg Shorthand, Diamond Jubilee Series, are taught. 3 hours lecture, 2 hours lab.
Prerequisite: Sec 140 or equivalent and ENG 100 or equivalent.
- SEC 145 Intermediate Shorthand (3) i, ii, iii**
A continuation of Elementary Shorthand 144 designed to review the principles of Gregg Shorthand, Diamond Jubilee Series, with emphasis on development of dictation and transcription skills. Minimum dictation speed of 60 words per minute on new material is needed to take this course. Intermediate Typewriting 141 should precede or parallel this course. 3 hours lecture, 2 hours lab.
Prerequisite: SEC 144 with "C" grade or better or one year of high school shorthand with "C" grade or better.
- SEC 220 Office Occupations Practicum (2 or 3)* i, ii, iii**
A course designed to provide on-the-job office experience to students working in

an approved local business for a minimum of 10 hours a week. Student may take it for credit only 1 semester.

*2 hours credit if employed 10-14 hours a week (20-28 for summer session), 3 hours credit if employed 15 or more hours a week (30 or more for summer session).

Prerequisite: SEC 141 and written consent of the instructor.

- SEC 230 Office Machines (3) i, ii**
An introduction to electronic calculators, transcribers, duplicating equipment, and special typewriters. 6 hours lecture, 4 hours lab. Meets first half of semester.
Prerequisite: SEC 141.

- SEC 240 Office Typing Problems (3) i, ii, iii**
Simulated office typing problems in specialized offices, such as banking, insurance, manufacturing, medical, and legal. Emphasis is on the production of mailable copy. Minimum net speed of 40 words per minute is needed to take this course. Three hours lecture and two hours lab.
Prerequisite: SEC 141 with "C" grade or better.

- SEC 340 Advanced Shorthand (3) i, ii, iii**
A continuation of Intermediate Shorthand 145 with further development of dictation and transcription skills. Minimum dictation speed of 80 words per minute is needed to take this course. Office Typing Problems 240 must precede or parallel this course. Three hours lecture and two hours lab.
Prerequisite: SEC 145 with "C" grade or better.

SEC 341	Secretarial Dictation and Transcription (3) i, ii, iii A continuation of Advanced Shorthand 340 with emphasis on producing mailable transcripts. Minimum dictation speed of 100 words per minute is needed to take this course. 3 hours lecture and 2 hours lab. Prerequisite: SEC 340 with "C" grade or better.	
SEC 350	Office Communications (3) i, ii A course designed to teach effective oral and written communications from the standpoint of a secretary. Includes business letters and reports. 6 hours lecture, 4 hours lab. Meets first half of semester. Prerequisite: ENG 104 or equivalent and SEC 141.	
SEC 351	Model Office I (3) i, ii Simulated model office experience designed to integrate a wide range of knowledges and skills in modern office practice. Office Typing Problems 240 must precede or parallel this course. 6 hours lecture, 4 hours lab. Meets second half of semester. Prerequisite: SEC 230.	
SEC 352	Model Office II (3) i, ii Continuation of Model Office I, with students being promoted to managerial positions. SEC 350 Office Communications must precede or parallel this course. 6 hours lecture, 4 hours lab. Meets second half of semester. Prerequisite: SEC 351.	

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**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
EXECUTIVE SECRETARY**

	Freshman Year	
	Fall Semester	
MGT 110	Business Organization.....	3
ENG 104	English	3
MGT 116	Business Mathematics or 210 Business Statistics	3
SEC 141	Intermediate Typewriting.....	3
SEC 144	Elementary Shorthand or Selected Elective	3
		15
	Spring Semester	
SEC 240	Office Typing Problems	3
SEC 145	Intermediate Shorthand	3
ACC 230	Principles of Financial Accounting	3
PSC 101	Amer. Gov't or HIS 140 Amer. Hist. or HIS 150 Amer. Hist.....	3
SPH	104, 105, or 106	3
PED 101	P.E. Concepts.....	1
		16
	Sophomore Year	
	Fall Semester	
SEC 230	Office Machines.....	3
SEC 340	Advanced Shorthand	3
SEC 351	Model Office I	3
CSC 182	Introduction to Data Processing.....	3

	General Studies III elective.....	3
PED	P.E. Activity.....	1
		16
	Spring Semester	
SEC 341	Secretarial Dictation & Transcription	3
SEC 350	Office Communications	3
SEC 352	Model Office II	3
ECO 260	Principles of Economics I.....	3
	Selected elective.....	3
		15

**SAMPLE PROGRAM
SECRETARIAL CERTIFICATE PROGRAM**

	Freshman Year	
	Fall Semester	
MGT 110	Business Organization.....	3
ENG 104	English	3
MGT 116	Business Mathematics	3
SEC 141	Intermediate Typewriting	3
SEC 145	Intermediate Shorthand	3
		15
	Spring Semester	
SEC 230	Office Machines.....	3
SEC 240	Office Typing Problems	3
SEC 340	Advanced Shorthand	3
SEC 351	Model Office I	3
	Select one of the following.....	3
SEC 220	Office Occupations Practicum	
PSY 101	General Psychology	
SPH	104 or 105	
CSC 182	Introduction to Data Processing.....	
ACC 230	Principles of Financial Accounting	
		15

**SAMPLE PROGRAM
CLERICAL CERTIFICATE PROGRAM**

	Freshman Year	
	Fall Semester	
MGT 110	Business Organization.....	3
ENG 104	English	3
MGT 116	Business Mathematics	3
SEC 141	Intermediate Typewriting	3
ACC 230	Principles of Financial Accounting	3
		15
	Spring Semester	
SEC 230	Office Machines.....	3
SEC 240	Office Typing Problems	3
SEC 351	Model Office I	3
	Select two of the following	6
SEC 220	Office Occupations Practicum	
PSY 101	General Psychology	
SPH	104 or 105	
ECO 260	Principles of Economics I.....	
ACC 231	Principles of Managerial Accounting.....	
CSC 182	Introduction to Data Processing.....	
		16

LAWYERS' ASSISTANT

D. Dye

An Associate of Science degree with a major in Lawyers' Assistant requires completion of the following specific courses: LAT 100, 110, 130, 160, 190, 210, 240, 260, 270, 290; ENG 108; LAW 215; SPH 104; ACC 230; PSC 101; MGT 310 and 311; CSC 182; and PSY 101.

A Certificate with a major in Lawyers' Assistant requires the completion of the following specific courses: LAT 100, 110, 130, 160, 290; ENG 104; ACC 230, and PSY 101, as well as directed electives.

The Lawyers' Assistant programs are designed to prepare persons to enter into or advance in careers related to legal services. Career opportunities include positions with:

Law Firms, Banking Institutions, Real Estate Agencies, Local, State, and Federal Prosecuting Attorneys, Title Companies, and Municipal Legal Departments.

- LAT 100 Introduction to Legal Services (3) i**
An introduction to the Legal system with emphasis upon the various fields of law, the court system, federal, state, and local, the role of the lawyer and lawyers' assistant, the ethical and professional practice standards applicable to lawyers and assistants.
- LAT 110 Legal Bibliography and Brief Writing (3) i**
This course introduces the student to the law library and the processes of legal research. Emphasis will be placed upon the use of research materials, briefs of cases, footnoting, showing citations, drafting of pretrial documents, and other fact gathering related to the preparation for trial.
- LAT 130 Real Property Law (3) ii**
A study of the law of real property with emphasis upon the common types of real estate transactions and conveyances, research of and practice in the drafting of contracts, deeds, leases, deeds of trust, forms of ownership, rights of creditors, and consequences of ownership.
- LAT 160 Evidence (3) ii**
Order of proof, form of question, opinions, cross-examination, impeachment, objections, competency, privileges, relevancy, demonstrative evidence, best evidence rule, parole evidence rule, hearsay, burdens of proof and persuasion, judicial notice.
- LAT 190 Estates and Trust Administration (3) i**
A study of the laws applicable to decedents' estates and common forms of wills and trusts. The role and jurisdiction of the Missouri Probate Court will be examined as it relates to the administration of estates. Special emphasis will be placed upon will drafting, incompetents' estates, and probate proceedings and procedure.
- LAT 210 Tort and Insurance Law (3) i**
The study of the principles of the law of torts and insurance. Emphasis will be

placed upon the practical aspects of tort and insurance claim investigation, research, and preparation of pleadings.

- LAT 240 Business Organization and Regulation (3) ii**
The study of the laws related to the formation and regulation of business entities. Emphasis is placed upon practical research and projects related to legal services provided to developing and ongoing business organizations.

- LAT 260 Taxation (3) ii**
The study of taxation at the Federal, State, and Local levels. Emphasis is placed upon income taxation, estate taxation, gift taxation, fiduciary taxation, the preparation of tax returns, and other tax related documents.

- LAT 270 Domestic Relations (3) ii**
A study of the legal aspects of family relationships. Emphasis will be placed upon the laws concerning marriage, divorce, separation, child support, adoption, and guardianship.

- LAT 290 Lawyers' Assistant Practicum (5) iii**
Designed to provide the student with the opportunity to apply formal education in actual work situations. The student will work in a position related to his area of interest and will be evaluated by the participating professional for course credit.
Prerequisite: Consent of instructor.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
LAWYERS' ASSISTANT**

Freshman Year
Fall Semester

LAT 100	Introduction to Legal Services.....	3
LAT 110	Legal Bibliography and Brief Writing.....	3
ENG 104	Composition and Rhetoric I.....	3

ACC 230	Principles of Financial Accounting	3
MGT 310	Business Law I	3
PED 101	Concepts of Physical Activity	1
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		16

Spring Semester

LAT 130	Real Property Law	3
LAT 160	Evidence	3
SPH 104	Oral Communications	3
MGT 311	Business Law II	3
CSC 182	Introduction to Data Processing	3
	Physical Education Activity	1
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		16

Summer Session

LAT 290	Lawyers' Assistant Practicum	5
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Sophomore Year

Fall Semester

LAT 190	Estate and Trust Administration	3
LAT 210	Tort and Insurance Law	3
LAW 215	Essentials of Interviewing	3
ENG 108	Composition and Rhetoric II	3
PSC 101	American National Government	3
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		15

Spring Semester

LAT 240	Business Organization and Regulation...	3
LAT 260	Taxation	3
LAT 270	Domestic Relations	3
PSY 101	General Psychology	3
	General Studies III elective	3
		<hr/>
		15

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SAMPLE PROGRAM CERTIFICATE LAWYERS' ASSISTANT

Freshman Year

Fall Semester

LAT 100	Introduction to Legal Services	3
LAT 110	Legal Bibliography and Brief Writing	3
ENG 104	Composition and Rhetoric I	3
ACC 230	Principles of Financial Accounting	3
	Select <i>one</i> of the following:	
LAW 215	Essentials of Interviewing	
LAT 190	Estate and Trust Administration	
LAT 210	Tort and Insurance Law	
MGT 310	Business Law I	3
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		15

Spring Semester

LAT 130	Real Property Law	3
LAT 160	Evidence	3
PSY 101	General Psychology	3
	Select <i>two</i> of the following:	
LAT 240	Business Organization and Regulation	
LAT 260	Taxation	
LAT 270	Domestic Relations	
MGT 310	Business Law I or	
MGT 311	Business Law II	6
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		15

Summer Session

LAT 290	Lawyers' Assistant Practicum	5
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program in

PILOT TRAINING

The Pilot Training program is designed to prepare individuals to become professional pilots. Employment opportunities for pilots include:

Air Taxi, Business or Corporate Flying, Supply Company Pilot, Pilot Instruction, Police Patrol Flying, and a host of others.

PTR 120 Private Flight (3) i, ii
Flight maneuvers leading to private pilot, single engine, Land Certificate. 2 hours lecture, 4 hours lab.

PTR 123 Private Ground (3) i, ii
Ground training leading to a private pilot, single engine, Land Certificate. To be taken concurrently with PTR 120.

An Associate of Science degree with a major in Pilot Training requires the completion of the following specific courses: PTR 120, 123, 126, 129, 240, 243, 246, and 249.

There are costs for Pilot Training courses in addition to the regular college fees. Contact the advisor for further information.

PTR 126 Commercial Flight I (3) i, ii
Continuation of flight training leading to qualification for commercial license. 2 hours lecture, 4 hours lab.
Prerequisite: PTR 120.

PTR 129 Commercial Ground (3) i, ii
Advanced weights and balances, meteorology, flight computers, navigation, and radio. Federal Aviation regulations, and flight maneuvers. To be taken concur-

rently with PTR 126.

Prerequisite: PTR 123.

PTR 240 Commercial Flight II (3) i, ii
Continuation of Commercial Flight I. May be taken at the convenience of the student and the flight school. 2 hours lecture, and 4 hours lab.

PTR 243 Instrument Flight (3) i, ii
Flight maneuvers and planning by sole reference to flight instruments. 2 hours lecture, 4 hours lab.

Prerequisite: PTR 126.

PTR 246 Instrument Ground (3) i, ii
Aircraft instruments and systems; instrument flight rules, flight charts, shorthand clearances, visual omni-range flight procedure, instrument landing systems, and automatic direction finder approaches. To be taken concurrently with PTR 243.

Prerequisite: PTR 129.

PTR 249 Instructor Flight (3) i, ii
Flight teaching procedure. 2 hours lecture, 4 hours lab. To be taken concurrently with PTR 243 and PTR 246.

Prerequisite: PTR 240.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
PILOT TRAINING**

Freshman Year

Fall Semester

ENG 104	English	3
PSC 101	Amer. Gov't. or HIS 140 Amer. Hist. or HIS 150 Amer. Hist.....	3
PTR 120	Private Flight.....	3
PTR 123	Private Ground.....	3
PED 101	Concepts of Physical Activity.....	1
	Elective	3
		—
		16

Spring Semester

SPH	104, 105, or 106	3
PTR 126	Commercial Flight I.....	3
PTR 129	Commercial Ground	3
MAT 105	College Algebra	3
PED	P.E. Activity	1
	Electives	3
		—
		16

Sophomore Year

Fall Semester

	General Studies III elective.....	3
PTR 240	Commercial Flight II	3
	Electives	9
		—
		15

Spring Semester

PTR 243	Instrument Flight	3
PTR 246	Instrument Ground	3
PTR 249	Instructor Flight	3
	Electives	6
		—
		15

Associate Degrees In Other Departments

AGRICULTURAL SUPPLY TECHNOLOGY

(for details, see Department of Agriculture)

An Associate of Science degree with an emphasis in Agricultural Supply Technology requires the completion of the following specific courses: AGR 111, 120, 130, 150, 200, 204, 222, 224, 236, 290, 320, 324, 326, 330, and 402.

AGRI-BUSINESS TECHNOLOGY

(for details, see Department of Agriculture)

An Associate of Science degree with an emphasis in Agri-Business Technology requires the completion of the following specific courses: AGR 111, 120, 130, 150, 200, 204, 222, 236, 290, 324, 402; MGT 110, 312; ACC 320; and MKT 374.

CONSTRUCTION ENGINEERING TECHNOLOGY

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(for details, see Department of Engineering Technology)

An Associate of Science degree with a major in Construction Engineering Technology requires the completion of the following specific courses: EGT 100, 104, 154, 202, 204, 250, and 258; CET 150, 206, 256, 304, and 354; MAT 105, 106 and 204; and PHY 110.

ELECTRONIC ENGINEERING TECHNOLOGY

(for details, see Department of Engineering Technology)

An Associate of Science degree with a major in Electronic Engineering Technology requires the completion of the following specific courses: EGT 100, 103, 104, and 240; EET 210, 220, 230, 270, 300, and 340; MAT 105, 106 and 204; and PHY 110.

MID-MANAGEMENT-ACCOUNTING

(for details, see the Department of Business & Economics)

An Associate of Science degree with a major in Mid-Management-Accounting requires the completion of the following specific courses: ACC 230, 231, 330, 331, 333; ECO 260, 261; MGT 110, 116 or 210, and 312.

MID-MANAGEMENT-BANKING AND FINANCE

(for details, see the Department of Business & Economics)

An Associate of Science degree with a major in Mid-Management-Banking & Finance requires the completion of the following specific courses: ACC 230, 231; ECO 260, 261, 363; MGT 110, 116 or 210, 310, 312, and 315; BAN 253, and two of the following BAN 250, 251, 252, or AGR 206.

MID-MANAGEMENT-DATA PROCESSING

(for details, see the Department of Business & Economics)

An Associate of Science degree with a major in Mid-Management-Data Processing requires the completion of the following specific courses: ACC 230, 231; ECO 260, 261; MGT 110, 116 or 210, 310, 312; CSC 182, 240, 245, and 345.

MID-MANAGEMENT-RETAILING

(for details, see the Department of Business & Economics)

An Associate of Science degree with a major in Mid-Management-Retailing requires the completion of the following specific courses: ACC 230, 231; ECO 260, 261; MGT 110, 116 or 120, 312; MKT 370, 371, 374, and 376.

THE DIVISION OF EDUCATION AND APPLIED SCIENCES

The division includes the departments of Agriculture, Business and Economics, Education, Engineering Technology, Health-Physical Education and Recreation, Military Science, and Psychology.

The division contributes to all facets of education within the College. Required and elective courses assist students in fulfillment of general educational needs; Comprehensive offerings lead to the completion of degree requirements; and the varied electives lead to program enrichment.

Students are provided the opportunity to pursue a wide spectrum of programs designed to culminate in competent graduates who also possess the general and human skills necessary to succeed in an everchanging society.

The division is dedicated to the belief that the College is for students and every effort is made to make both the staff and facilities available to help the student gain maximum benefits and enjoyment

from his College program. The objectives of the division are to provide students an opportunity for;

Professional Development, in which the student is prepared to enter the field of his choice, or concentration, with the knowledge and skills necessary for personal success and satisfaction in either the market place or in pursuit of additional education;

Personal Development, in which a variety of courses are available through which a student may broaden and enrich his understanding of himself, man and society;

Career Exploration, which through a blend of on-campus theory courses and off-campus experiences, the student can explore the field of his choice early in his or her academic program.

The semester course designations may be adjusted according to need, enrollment, demand of students, and availability of instructional resources.

department of

AGRICULTURE

Dr. G. Johnson — chairman
 J. Dauve
 J. Duncan
 G. Easter
 G. Wilson

Agriculture has changed tremendously in recent years and is continuing to do so. It is no longer simply "farming". Today's agricultural industry includes three broad areas: 1) research and education, 2) production of food and fiber, and 3) business and industry which provides goods and services in the processing and distribution of farm products. Under-graduate

curricular offerings in the Department of Agriculture are designed to provide students with a broad general education and still maintain the flexibility of allowing students sufficient opportunity to select specific general and professional electives to satisfy their special needs and desire.

The Department of Agriculture offers programs leading to the Bachelor of Science Degree with an emphasis in agricultural economics, agronomy, animal science and general agriculture.

The general agriculture curriculum is designed so that students may select courses from several areas of study, thereby enabling them to hold positions in the general field of agriculture.

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An Associate of Science Degree is offered with an emphasis in agricultural supply technology or with an emphasis in agribusiness technology.

The Associate of Science degrees are designed so that students may gain professional knowledge and experience as quickly as possible without taking many of the general education courses that are required for the B.S. degree.

The agricultural economics curriculum is designed to provide an exposure to most areas of agricultural business and management allowing an emphasis in a particular area. It is organized to prepare students for employment in sales, distribution, purchasing, price analysis, banks, government affiliated or operated agencies, farm management and other less general fields.

A minor consists of 20 semester hours in a selected discipline which would include the following courses:

Agricultural Economics 150, 200, 308
 Agronomy 120, 222, 320
 Animal Science 130, 236

The agronomy curriculum is organized to prepare students for professional positions with agencies of the state and federal government, as well as private industry.

BACHELOR OF SCIENCE DEGREE

Core Curriculum

AGR 111	Orientation	1
AGN 120	Plant Science	4
AGN 222	Soil Science	4
AGN 320	Soil Fertility	4
ASI 130	Animal Science	4
ASI 236	Fundamentals of Animal Nutrition	3
ASI 339	Livestock Evaluation	3
AEC 150	Agriculture Economics	4
AEC 200	Agricultural Marketing	3
		30

Students are prepared to fill the positions of soil scientist, soil conservationist, farm manager, feed, seed and fertilizer distributors, soil laboratory technician, and other related agronomic positions.

The animal science curriculum is designed to prepare students for careers in the animal industry as farm managers, feed distributors, order buyers and other related occupations.

MAJOR — Agriculture (Agri. Economics Emphasis)

Agricultural Economics Core	
AEC 304	Farm Finance and Accounting 4
AEC 305	Farm Management 3
AEC 308	Commodity Marketing 3
AEC 310	Agricultural Policy 3
AEC 400	Farm Price Analysis 3
AEC 402	Agricultural Law 3
ECO 260	Principles of Economics I 3
	Animal Science Elective* 4
	Agriculture Electives* 6
	Agronomy Electives* 4
	—
	36

BIO 101, CHE 104 & MAT 105 are required courses.

*Recommend: 490 Special Problems, farm projects, max. 8 hrs.

MAJOR — Agriculture (Agronomy *Emphasis)

Agronomy Core	
AGN 224	Grain Handling & Grading 4
AGN 322	Forage Crop Management 3
AGN 324	Diseases of Field Crops 2
AGN 326	Agricultural Chemicals 3
AGN 420	Soil Conservation 3
AGN 426	Soil Genesis & Classification 3
AGN 429	Corn & Soybean Production 3
AGN 436	Soil Microbiology 3
AEC 402	Agricultural Law 3
ASI	Animal Science Elective 3
	Agriculture Electives* 8
AEC	Agriculture Economics 4
	—
	42

BIO 101, CHE 104, 204 and 304 are required courses.

*Recommended: AGR 490, Special Problems, farm projects, max. 8 hrs.

MAJOR — Agriculture (Animal Science Emphasis)

Animal Science Core	
ASI 265	Meat Science 3
ASI 330	Applied Animal Nutrition 4
Three of the following courses:	
ASI 332	Beef Production 3
ASI 333	Dairy Science 2
ASI 334	Horse Production 2
ASI 335	Poultry Science 2
ASI 336	Sheep Production 2
ASI 337	Swine Production 3
ASI 338	Animal Breeding 3
ASI 339	Livestock Evaluation 3
ASI 475	Diseases of Livestock Animals 3
	Agronomy Electives* 2
	Agricultural Economics Elect.* 7
	Agriculture Electives* 4
	—
	38-40

CHE 104, 204 & 304 are required courses.

*Recommended: 490, Special Problems, farm projects, max. 8 hrs.

MAJOR — Agriculture (General Agriculture Emphasis)

General Agriculture Core	
AGN 322	Forage Crop Management 3
AGN 429	Corn and Soybean Production 3
	AEC electives* 10
	ASI electives* 10
	AGN electives* 10
	—
	36

*Recommended: 490, Special Problems, farm projects, max. 8 hrs.

ASSOCIATE OF SCIENCE DEGREE

MAJOR — Agriculture (Agri-Supply Technology Emphasis)

Agricultural Supply Technology Core	
AGR 111	Orientation to Agriculture 1
AGR 290	Occupational Experience* 4-8
AEC 150	Agricultural Economics 4
AEC 200	Agricultural Marketing 3
AEC 204	Agricultural Supply Management 3
AEC 402	Agricultural Law 3
AGN 120	Plant Science 4
AGN 222	Soil Science 4
AGN 224	Grain Handling & Grading 4
AGB 320	Soil Fertility 4
AGN 324	Diseases of Field Crops 2
AGN 326	Agricultural Chemicals 3
ASI 130	Animal Science 4
ASI 236	Fundamentals of Animal Nutrition 3
ASI 330	Applied Animal Nutrition 4
	—
	50-54

*AGR 490, Special Problems (farm projects) can be substituted for AGR 290, Occupational Experience.

MAJOR — Agriculture (Agri-Business Technology Emphasis)

Agri-Business Technology Core	
AGR 111	Orientation to Agriculture 1
AGR 290	Occupational Experience* 4-8
AEC 150	Agricultural Economics 4
AEC 200	Agricultural Marketing 3
AEC 204	Agri-Supply Management 3
AEC 402	Agriculture Law 3
AGN 120	Plant Science 4
AGN 222	Soil Science 4
AGN 324	Diseases of Field Crops 2
AGN 326	Agricultural Chemicals 3

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ASI 130	Animal Science	4
ASI 236	Fundamentals of Animal Nutrition	3
ACT 230	Principles of Financial Acct	3
MGT 110	Business Organization	3
MGT 312	Principles of Management	3
MKT 374	Salesmanship	3

CHE 104 Fundamentals of Chemistry 4

54-58

AGR 490, Special Problems, (farm projects) can be substituted for AGR 290, Occupational Experience.

AGRICULTURAL ECONOMICS

Course Offerings

- AEC 150 Agricultural Economics (4) i**
Economic principles underlying the organization of agriculture; problems of pricing, production costs, distribution and relation of agricultural policy to the consumer. Four hours lecture per week.
- AEC 200 Agricultural Marketing (3) ii**
Principles underlying the marketing of farm products with the emphasis on describing the marketing process. Three hours lecture per week.
Prerequisite: AEC 150 or equivalent course.
- AEC 204 Agri-Supply Management (3) ii (odd years)**
A comprehensive course in the management of a retail farm supply store. Included are product knowledge, personnel policies and relationships, purchasing and sales techniques, inventory methods, stock control, and merchandising. Three hours lecture per week.
- AEC 304 Farm Finance and Accounting (4) ii**
Purpose and methods of keeping farm records, and procedures in accounting; principles involved in financing the farm business and the use of credit. Four hours lecture per week.
Prerequisites: AEC 150, MAT 105 or equivalent courses.
- AEC 305 Farm Management (3) i**
A study of the principles of farm management and farm organization. Selection of farm enterprises, farm credit, leases and types of farming adapted to a given farm are included. Three hours lecture per week.
Prerequisites: AEC 150 and AEC 304.
- AEC 308 Commodity Marketing (3) i**
Comprehensive analysis of the movement of agricultural commodities with an emphasis on pricing procedures, and the use and function of the futures market. Three hours lecture per week.
Prerequisite: AEC 200.
- AEC 310 Agricultural Policy (3) i (even years)**
The study of programs, both past and present, that affect the situation of agriculturalists and what the alternatives are for the future. Three hours lecture per week.
Prerequisite: AEC 150.
- AEC 400 Farm Price Analysis (3) i (odd years)**
Economic and econometric principles applied to price movements and price discovery in agriculture. Three hours lecture

per week.

Prerequisite: AEC 200.

AEC 402 Agricultural Law (3) ii (even years)

The legal framework impinging upon decision making by farm firms, families and individuals; liabilities, real and personal property, contracts, farm commercial code, organization of farm firms, intergenerational property transfer, water and fence laws, federal and state regulatory powers and insurance. Three hours lecture per week.

Prerequisite: Junior standing or consent of instructor.

AGRONOMY

AGN 120 Plant Science (4) ii

Principles of production and management. Importance and ecology of each crop is discussed. New practices and varieties are emphasized. Laboratory will include a study of the plant and plant parts. Three hours lecture and two hours lab per week.

AGN 222 Soil Science (4) i

The origin, formation, and characteristics of different soil types, emphasis placed on soils of Missouri. Laboratory includes field trips. Three hours lecture and two hours lab per week.

Recommend: CHE 104.

AGN 224 Grain Handling and Grading (4) ii (odd years)

Grain movement from producer to consumer and factors influencing these procedures. Application of the Federal standards for grading farm crops and judging of grains. Two hours lecture and four hours lab per week.

AGN 320 Soil Fertility (4) ii

The use and management of lime and fertilizer on soils. Emphasis is placed on individual nutrients utilization. Three hours lecture and two hours lab per week.

Prerequisite: AGN 222.

AGN 322 Forage Crop Management (3) ii

Ecology, insects, diseases, culture, uses and management of forage will be studied. Three hours lecture per week.

AGN 324 Diseases of Field Crops (2) i (even years)

Detail study of disease of field crops and forages that cause economic loss to the producer. Two hours lecture per week.

AGN 326 Agricultural Chemicals (3) i (odd years)

An introduction to the field of agricultural chemicals including herbicides, insecticides, fungicides. Types of materials, calibration of sprayer, methods of use and safety measures to be used. Two hours

lecture and two hours lab per week.
Recommend: CHE 104.

- AGN 420 Soil Conservation and Management (3) ii (even years)**
Conservation and management of soils with respect to erosion, depletion, fertility, physical improvement and crop production. Includes farm surveying, design and layout of terrace systems, drainage and farm ponds. Three hours lecture per week.
- AGN 426 Soil Genesis and Classification (3) i (even years)**
Identification and mapping of soils and soil systems. Interpretation and utilization of soil survey information. Two hours lecture and two hours lab.
Prerequisite: AGN 222.
- AGN 429 Corn and Soybean Production (3) i**
The study of the latest research and production practices concerning varieties, cultural practices, fertilization, rotations, insects, disease and weed control problems, and including harvesting and marketing. 3 hrs. lecture.
- AGN 436 Soil Microbiology (3) i (odd years)**
The study of soil microorganisms and their relation to the fertility of the soil, with special emphasis on the decomposition of organic matter, rocks and minerals. 3 hrs lecture.
Prerequisite: AGN 222.

ANIMAL SCIENCE

- ASI 130 Animal Science (4) i**
An introductory course in animal science with emphasis on fundamental concepts of animal breeding, management, marketing, nutrition and physiology as they apply to the livestock industry. Three hours lecture and two hours lab per week.
- ASI 236 Fundamentals of Animal Nutrition (3) i**
Study of various nutrients; their function, digestion and metabolism by various species of animals. Three hours lecture.
Prerequisite: ASI 130 and CHE 104 recommended or equivalent Chemistry course.
- ASI 265 Meat Science (3) ii**
Introduction to slaughter of hogs, cattle, and sheep; carcass evaluation and grading; Federal and State Meat Inspection; and Identification of various cuts of meat from the domestic farm animal. Three hours lecture per week.
- ASI 330 Applied Animal Nutrition (4) ii**
Measure of the nutritive value of feeds, nutrient requirements of the various species of livestock, sources and composition of nutrients, ration formulation, preparation of feed, feed additives and food and drug regulations. Three hours lecture and two hours lab per week.
Prerequisite: ASI 236.
- ASI 332 Beef Production (3) ii (odd years)**
Production, management, marketing, and nutrition of commercial and purebred beef cattle. Two hours lecture and two hours lab per week.
Prerequisite: ASI 130 and junior standing.
- ASI 333 Dairy Science (2) i (odd years)**
Development of dairy cattle breeds, principle and practices of dairy cattle feeding, management and selection of breeding animals for dairy herds. Two hours lecture per week.
Prerequisite: ASI 236
- ASI 334 Horse Production (3) i (even years)**
Basic principles of horse breeding, color, inheritance, health, management, nutrition, and marketing of equine. Three hours lecture.
Prerequisite: ASI 130 and junior standing.
- ASI 335 Poultry Science (2) i (odd years)**
A study of breeds, breeding, common diseases, housing, efficient management nutrition and marketing of eggs and poultry. Two hours lecture per week.
Prerequisite: ASI 236.
- ASI 336 Sheep Production (3) i (even years)**
Production, management, marketing, and nutrition of breeding flock and feedlot lambs. Three hours lecture.
Prerequisite: ASI 130 and junior standing.
- ASI 337 Swine Production (3) ii (even years)**
Methods of breeding, feeding, marketing and management of purebred and commercial swine. Two hours lecture and two hours lab per week.
Prerequisite: ASI 130 and junior standing.
- ASI 338 Animal Breeding (3) i**
The study of mating systems and application of genetic principles and practices to the improvement of domestic animals. The use and value of Performance Testing. Physiology of Farm Animals. Two hours lecture and two hours lab per week.
Prerequisite: ASI 130
- ASI 339 Livestock Evaluation (3) ii**
Selection of beef, horses, sheep, and swine for specific uses. Comparative terminology, grading, judging and presentation of oral reasons. Six hours lab per week.
Prerequisite: ASI 130.
- ASI 439 Intercollegiate Judging Training and Competition (3) on demand**
Specialized training in evaluating and grading live animals. Field trips to farms and livestock expositions. Six hours lab per week (plus trips to contests).
Prerequisite: ASI 339 and Permission of instructor.
- ASI 475 Diseases of Livestock Animals (2) ii**
Discussion of general principles regarding the prevention, identification, control, and eradication of troublesome and common diseases and parasites of farm animals. Two hours lecture per week.
Prerequisite: ASI 130. Recommended: One or more of the following — ASI 332, 334, 336, or 337.

AGRICULTURE

- AGR 111 Orientation to Agriculture (1) i**
Survey of careers in agriculture, concentrating on the areas of agricultural economics, agronomy, and animal science. Should be taken the first semester in college. One hour lecture per week.

AGR 210 Farm Mechanization (3) i (even years)
A study of the basic principles of the power unit, equipment, their major components, their management and the operators safety.

AGR 290 Occupational Experience (1-8) i,ii,iii
Internship under the supervision of a college instructor. Students will be assigned according to their preparation and interests to intern in an approved agriculturally oriented agency or firm. They will work with administrative and operational personnel at several levels. Times will be arranged.

Prerequisite: Consent of department chairman during the first half of semester preceding time of enrollment.

Note: Students should not enroll for other courses "during the day" in the semester in which they enroll for more than 3 credit hours in this course).

AGR 430 Seminar (1) i, ii
Independent reading within the several disciplines of agriculture, summarized and presented orally to students and staff. One meeting per week.

Prerequisite: Junior or senior standing.

AGR 450 Independent Study (credit hours open) (1-4)

Open only to seniors either as a means of taking a required course which is not otherwise available during their senior year or do advanced individual study and investigation in an area related to some 300+ agriculture course of student's preference.

Prerequisite: This arrangement available by consent of department chairman.

AGR 490 Special Problems (1-8) i, ii, iii
Open to senior students majoring in agricultural economics, agronomy, animal science, and general agriculture. Research topics are assigned on an individual interest basis. Times of Conferences will be arranged.

Prerequisite: Consent of department chairman should be obtained the semester preceding enrollment.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
AGRICULTURE ECONOMICS**

Freshman Year

Fall Semester

AEC 150	Agricultural Economics	4
AGR 111	Orientation	1
ASI 130	Animal Science	4
CHE 104	Fundamentals of Chemistry	4
ENG 104	Composition & Rhetoric I	3
		—
		16

Spring Semester

AEC 200	Agricultural Marketing	3
AGN 120	Plant Science	4
MAT 105	College Algebra	3
PED 101	Concepts of Physical Activity	1
BIO 101	Principles of Biology	5
		—

Sophomore Year

Fall Semester

ECO 260	Principles of Economics	3
AEC 310	Agricultural Policy	3
AGN 222	Soil Science	4
ASI 236	Fundamentals of Animal Nutrition	4
ENG 210	Approaches to Literature	3
		—
		17

Spring Semester

AEC 304	Farm Finance and Accounting	4
ASI 330	Applied Animal Nutrition	4
ENG 108	Composition and Rhetoric II	3
	Physical Activity elective	1
AGN 224	Grain Handling & Grading	4
		—
		16

Junior Year

Fall Semester

AEC 305	Farm Management	3
AEC 308	Commodity Marketing	3
	Physical Activity elective	1
SPH	Speech elective 104, 105, 106	3
	General Studies II elective	3
	General Studies III elective	3
		—
		16

Spring Semester

AGN 320	Soil Fertility	4
ASI 339	Livestock Evaluation	3
ASI	Animal Science elective*	4
	General Studies III elective	3
	Physical Activity elective	1
		—
		15

Senior Year

Fall Semester

AEC 400	Agricultural Prices	3
ECO 261	Principles of Economics II	3
MGT 210	Business Statistics	3
	General Statistics	3
	Agricultural elective*	3
		—
		15

Spring Semester

AEC 402	Agricultural Law	3
AGN 322	Forage Crop Management	3
MAT 204	Applied Calculus	5
MGT 313	Business Statistics	3
		—
		14
	TOTAL	124

*Recommend 490, Special Problems, farm projects, max. 8 hrs.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
ANIMAL SCIENCE**

Freshman Year

Fall Semester

AEC 150	Agriculture Economics	4
AGR 111	Orientation	1
ASI 130	Animal Science	4
ENG 104	English Comp. I	3
MAT 105	College Algebra	3
		—
		15

Spring Semester

AGN 120	Plant Science	4
ENG 108	English Composition II	3
PED 101	Concepts of Physical Activity	1
	General Studies II elective	3
	General Studies IV elective**	5
		—
		16

Sophomore Year

Fall Semester

AGN 222	Soil Sciences	4
ASI 236	Fundamentals of Animal Nutrition	3
CHE 104	Fundamentals of Chemistry	4
PED	Physical Activity elective	1
SPH	104, 105, 106	3
		—
		15

Spring Semester

AEC 200	Agricultural Marketing	3
ASI 330	Applied Animal Nutrition	4
ASI 265	Meat Science	3
CHE 204	Agricultural Organic Chemistry	4
	Physical Activity elective	1
		—
		15

Junior Year

Fall Semester

ASI 338	Animal Breeding	3
ASI	Animal Production elective	3
	General Studies III elective	6
	General Studies II elective	3
	Physical Activity elective	1
		—
		16

Spring Semester

ASI 339	Livestock Evaluation	3
ASI	Production Course elective	3
	Agriculture electives	4
	General Studies II elective	3
	General Studies III elective	3
		—
		16

Senior Year

Fall Semester

AEC 305	Farm Management	3
AEC	Agriculture Economics elective*	3
AGN	Agronomy elective*	3
ASI	Animal Science Animal Prod. elect.	2
	Electives*	4
		—
		15

Spring Semester

AEC	Agriculture Economics elective	3
AGN 320	Soil Fertility	4
AGN	Agronomy elective	3
ASI 475	Diseases of Livestock	3
CHE 304	Introduction to Biochemistry and Natural Products	3
		—
		16
	TOTAL	124

*Recommend AGR 490, Special Problems, farm projects, max. 8 hours

**Recommend BIO 101

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
AGRONOMY**

Freshman Year

Fall Semester

AGR 111	Orientation to Agriculture	1
ASI 130	Animal Science	4
CHE 104	Fundamentals of Chemistry	4
ENG 104	Composition & Rhetoric I	3
AEC 150	Agricultural Economics	4
		—
		16

Spring Semester

AGN 120	Plant Science	4
ENG 108	Composition & Rhetoric II	3
PED 101	Concepts of Physical Activity	1
SPH	104, 105, 106	3
	General Studies II elective	3
		—
		14

Sophomore Year

Fall Semester

AGN 322	Forage Crop Management	3
AGN 222	Soil Science	4
ASI 236	Fundamentals of Animal Nutrition	4
MAT 105	College Algebra	3
	Physical Activity elective	1
		—
		15

Spring Semester

AEC 200	Agricultural Marketing	3
AGN 224	Grain Handling & Grading	4
ASI	Elective	4
	Physical Activity elective	1
	General Studies III elective	3
		—
		15

Junior Year
Fall Semester

CHE 204	Agriculture Organic Chemicals.....	4
	Agriculture electives**	9
	General Studies II electives	3
	Physical Activity elective.....	1
		—
		17

Spring Semester

AGN 326	Agriculture Chemicals	3
AGN 429	Corn and Soybean Production.....	3
ASI	Elective	3
BIO 101	Principles of Biology	5
	General Studies II elective	3
		—
		17

Senior Year
Fall Semester

AEC 305	Farm Management	3
AGN 324	Diseased Field Crops	2
AGN 436	Soil Microbiology	3
CHE 304	Introduction to Biochemistry & Natural Products.....	3
	General Studies III elective.....	3
		—
		14

Spring Semester

62	AEC 402	Agriculture Law.....	3
	AGN 320	Soil Fertility.....	4
	AGN 420	Soil Conservation & Management.....	3
	AGN 426	Soil Genesis & Classification	3
		General Studies III elective.....	3
			—
			16
		TOTAL	124

**Recommend 490, Special Problems, projects on college farm, max. 8 hours.

SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
GENERAL AGRICULTURE

Freshman Year

Fall Semester

AEC 150	Agricultural Economics	4
AGR 111	Orientation.....	1
ASI 130	Animal Science	4
CHE 104	Fundamentals of Chemistry.....	4
ENG 104	Composition & Rhetoric I.....	3
		—
		16

Spring Semester

AEC 200	Agricultural Marketing	3
AGN 120	Plant Science	4
AGN 222	Soil Science	4
MAT 105	College Algebra	3
PED 101	Concepts of Physical Activity.....	1
		—
		15

Sophomore Year
Fall Semester

ECO 260	Principles of Economics	3
AEC 310	Agricultural Policy	3
AGN 224	Grain Handling & Grading.....	3
ASI 236	Fundamentals of Animal Nutrition.....	4
SPH	104, 105, 106	3
		—
		16

Spring Semester

AEC 304	Farm Finance and Accounting	4
ASI 330	Applied Animal Nutrition	4
ENG 108	Composition and Rhetoric II.....	3
ENG 210	Approaches to Literature.....	3
PED	Physical Activity elective.....	1
		—
		15

Junior Year
Fall Semester

AEC 305	Farm Management	3
AEC 308	Commodity Marketing	3
	Physical Activity elective.....	1
	General Studies II elective.....	3
	General Studies III elective.....	3
	General Studies III elective.....	3
		—
		16

Spring Semester

AGN 320	Soil Fertility.....	4
ASI 339	Livestock Evaluation.....	3
ASI	Animal Science elective*	4
BIO 101	Principles of Biology	5
	Physical Activity elective.....	1
		—
		17

Senior Year
Fall Semester

AEC 400	Agricultural Prices	3
ECO 261	Principles of Economics II.....	3
MGT 210	Business Statistics	3
	General Studies III elective.....	3
	Agricultural elective*	3
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		15

Spring Semester

AEC 402	Agricultural Law.....	3
AGN 322	Forage Crop Management	3
MAT 204	Applied Calculus	5
MGT 313	Business Statistics	3
		—
		14
	TOTAL	124

*Recommend 490, Special Problems, projects on college farm, max. 8 hours.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
AGRICULTURAL SUPPLY TECHNOLOGY**

Freshman Year

Fall Semester

AEC 150	Agriculture Economics	4
AGR 111	Orientation to Agriculture	4
ASI 130	Animal Science	4
ENG 104	Composition & Rhetoric I	3
SPH	Speech elective	3
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		15

Spring Semester

AEC 204	Agriculture Supply Management	3
AGN 120	Plant Science	4
AGN 224	Grain Handling & Grading	4
CHE 104	Fundamentals of Chemistry	4
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		15

Summer Semester

AGR 290	Occupational Experience*	4-8
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Sophomore Year

Fall Semester

AGN 222	Soil Science	4
AGN 324	Diseases of Feed Crops	2
AGN 326	Agricultural Chemicals	3
ASI 236	Fundamentals of Animal Nutrition	3
PED 101	Concepts of Physical Activity	1
	General Studies III elective	3
		<hr/>
		16

Spring Semester

AEC 200	Agricultural Marketing	3
AEC 402	Agricultural Law	3
AGN 320	Soil Fertility	4
ASI 330	Applied Animal Nutrition	4
	Physical Activity elective	1
	Social Science elective	3
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		18

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
AGRI-BUSINESS TECHNOLOGY**

Freshman Year

Fall Semester

AEC 150	Agriculture Economics	4
AGR 111	Orientation to Agriculture	1
ASI 130	Animal Science	4
ENG 104	Composition & Rhetoric I	3
SPH	104, 103 or 106	3
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		15

Spring Semester

ACT 230	Principles of Financial Acct.	3
AEC 240	Agri-Supply Management	3
CHE 104	Fundamentals of Chemistry	4
AGN 120	Plant Science	4
MGT 110	Business Organization	3
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		17

Summer Session

AGR 290	Occupational Experience*	4-8
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Sophomore Year

Fall Semester

AGN 222	Soil Science	4
ASI 236	Fundamentals of Animal Nutrition	3
MKT 374	Salesmanship	3
PED 101	Concepts of Physical Activity	1
	General Studies III elective	3
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		14

Spring Semester

AEC 402	Agricultural Law	3
MGT 312	Principles of Management	3
AGN 324	Diseases of Field Crops	2
AGN 326	Agricultural Chemicals	3
	Physical Activity elective	1
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BUSINESS AND ECONOMICS

Dr. E. Shrout — chairman	
G. Dilley	G. Pyle
B. Greenwald	R. Sander
Dr. J. Gunning	G. Segebarth
L. Hawley	Dr. M. Strader
J. Mitchell	A. Taylor
M. Mitchell	I. Williams
C. Pettijohn	J. Wise
J. Pettijohn	

The Department of Business and Economics offers diversified programs leading to associate degrees in mid-management and baccalaureate degrees with majors in accounting, business education, economics, management, and marketing. Students receive a general background in the fundamentals of business and economics as well as an opportunity to specialize

within a particular discipline. The programs have been designed to prepare the student for a career in the challenging and everchanging field of business as well as the pursuance of advanced degrees. The Department is actively involved in student placement and assists students in meeting potential employers through annual seminars.

FOUR YEAR PROGRAMS

64 The Department offers a Bachelor of Science in Business Administration Degree with majors in accounting, economics, management, or marketing; and Bachelor of Science in Education Degree with a major in business education. The curricula for these majors are as follows:

For the Bachelor of Science in Business Administration Degree

FRESHMAN-SOPHOMORE CORE

ACC 230	Principles of Accounting I	3
ACC 231	Principles of Accounting II	3
ECO 260	Principles of Economics I	3
ECO 261	Principles of Economics II	3
MGT 210	Business Statistics I	3
MAT 105	College Algebra (Use to fulfill General Studies Requirement — may not be taken Pass/Fail)	

PROFESSIONAL CORE

MGT 310	Business Law I	3
MGT 312	Principles of Management	3
MGT 315	Financial Management	3
MGT 319	Business Communications	3
MKT 370	Principles of Marketing	3
Total core hours		30

Additional Major Requirements

ACCOUNTING

ACC 330	Intermediate Accounting I	3
ACC 331	Intermediate Accounting II	3
ACC 333	Cost Accounting	3
ACC 336	Tax Accounting	3
ACC 433	Auditing	3
	Electives in Accounting	6
One of the following		3
ECO 360	Macroeconomic Theory	
ECO 361	Price Theory	
ECO 362	Public Finance	
ECO 363	Money and Banking	
One of the following:		3
MGT 411	Investment Analysis	
MGT 412	Personnel Management	
MGT 415	Administrative	

Supervision	
MGT 419 Business Policy	
One of the following:	3
CSC 245 Introduction to COBOL	
MGT 311 Business Law II	
MGT 313 Business Statistics II	
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ECONOMICS

ECO 360 Macroeconomic Theory	3
ECO 361 Price Theory	3
ECO 363 Money and Banking	3
Four of the following:	12
ECO 362 Public Finance	
ECO 364 Labor Economics	
ECO 365 Government Regulation of Business	
ECO 367 Urban and Regional Economics	
ECO 460 Business Cycles and Forecasting	
ECO 461 International Economics	
ECO 462 History of Economic Thought	
ECO 463 Comparative Economic Systems	
ECO 466 Current Economic Problems	
Business elective (non-economics, upper level)	3
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	24 54

MANAGEMENT

ACC 333 Cost Accounting	3
MGT 412 Personnel Management	3
Three of the following:	9
MGT 316 Principles of Insurance	
MGT 410 Small Business Management	
MGT 411 Investment Analysis	
MGT 413 Real Estate	
MGT 415 Administrative Supervision	
MGT 416 Production Management	
MGT 417 Credit Management	
MGT 419 Business Policy	
One of the following:	3
ECO 363 Money and Banking	
ECO 364 Labor Economics	
ECO 365 Government Regulation of Business	
One of the following:	3
ACC 330 Intermediate Accounting I	
CSC 245 Introduction to COBOL	
PSY 310 Industrial Psychology	
SOC 400 Minority Groups	
SOC 420 Collective Behavior	
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	21 51

MARKETING

MKT 376 Advertising	3
MKT 470 Marketing Management	3
MKT 472 Sales Management	3
MKT 473 Marketing Research	3
MKT 474 Marketing Seminar	3
Two of the following:	6
ECO 361 Price Theory	
MKT 371 Principles of Retailing	
MKT 372 Physical Distribution	
MKT 374 Salesmanship	
MKT 375 Industrial Marketing	
MKT 377 International Marketing	
MKT 378 Product Strategy	
MKT 471 Consumer Relations and Behavior	
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	21 51

For the Bachelor of Science in Education Degree

BUSINESS EDUCATION CORE

SEC 140 Beginning Typing	3
SEC 141 Intermediate Typing	3
ACC 230 Principles of Accounting I	3
ACC 231 Principles of Accounting II	3
ACC 330 Intermediate Accounting I	3
ECO 260 Principles of Economics I	3
MGT 116 Business Mathematics or	
MGT 210 Business Statistics	3
MGT 310 Business Law I	3
BUS 455 Methods of Teaching Business Subjects	3
MAT 105 College Algebra (Use to fulfill General Studies Requirement — may not be taken Pass/Fail)	
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Additional Major Requirements

Seven of the following:	
SEC 144 Elementary Shorthand	3
SEC 145 Intermediate Shorthand	3
SEC 340 Advanced Shorthand	3
SEC 240 Office Typing Problems	3
SEC 230 Office Machines	3
SEC 351 Model Office I	3
ECO 261 Principles of Economics II	3
MGT 110 Business Organization	3
MGT 311 Business Law II	3
MGT 312 Principles of Management	3
MGT 319 Business Communications	3
MKT 374 Salesmanship	3
CSC 182 Introduction to Data Processing	3
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21 48

In addition to the above requirements for the baccalaureate degrees, a student must have at least a 2.0 grade point average in course comprising his majors as well as a minimum of 21 hours of upper level courses (numbered 300 or above) in the department. If a transfer student from a junior college fulfills a 300-level required course with an accepted transfer course, the course will be accepted as meeting the course requirement, but will not be evaluated as fulfilling the 21 hour upper level requirement. No junior college course will be accepted as a transfer for any 400-level course in the department.

TWO YEAR PROGRAMS

The Department offers an Associate of Science degree with a major in Mid-Management (emphases in accounting, banking and finance, data processing, or retailing. In cooperation with the St. Joseph chapter of the American Institute of Banking, the department offers courses leading to the A.I.B. Standard Certificate. Further information is available in the office of the department chairman.

The curricula for this major is as follows:

MID-MANAGEMENT CORE

MGT 110	Business Organization	3
MGT 116	Business Mathematics or	
MGT 210	Business Statistics I	3
ACC 230	Principles of Accounting I	3
ACC 231	Principles of Accounting II	3
ECO 260	Principles of Economics I	3
ECO 261	Principles of Economics II	3
MGT 312	Principles of Management	3

Total core hours 21

ACCOUNTING

ACC 230 Principles of Accounting I (3) i, ii, iii
Fundamental principles of accounting and their application. Recording, classifying and summarizing business transactions. Analysis of balance sheet and income statement accounts.

ACCOUNTING EMPHASIS

ACC 330	Intermediate Accounting I	3
ACC 331	Intermediate Accounting II	3
ACC 333	Cost Accounting	3
	Elective in business (upper level)	3
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		12 33

BANKING AND FINANCE EMPHASIS

BAN 253	Bank Management	3
ECO 363	Money and Banking	3
MGT 310	Business Law I	3
MGT 315	Financial Management	3
	Two of the following:	6
AGR 205	Financing the Farm Business	
BAN 250	Principles of Bank Operations	
BAN 251	Savings and Time Deposit Banking	
BAN 252	Trust Functions and Services	
		<hr/>
		18 39

DATA PROCESSING EMPHASIS

CSC 182	Introduction to Data Processing	3
CSC 240	Introduction to RPG	3
CSC 245	Introduction to COBOL	3
CSC 345	Advanced COBOL	3
MGT 310	Business Law I	3
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		15 36

RETAILING EMPHASIS

MKT 370	Principles of Marketing	3
MKT 371	Principles of Retailing	3
MKT 374	Salesmanship	3
MKT 376	Advertising	3
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Prerequisites for courses listed below may be waived at the discretion of the department chairman or the appropriate instructor.

Prerequisite: A score of 14 or above on ACT math test, or MGT 116.

ACC 231 Principles of Accounting II (3) i, ii
Assembly and use of accounting data for managerial decision-making; cost accounting; taxes; budgeting; cost-volume-profit analysis; cost of capital and traditional financial statement analysis.
Prerequisite: ACC 230.

- ACC 330 Intermediate Accounting I (3) i, ii**
Analysis and interpretation of fundamental processes, assets, and equity values with related revenue and expense aspects.
Prerequisite: ACC 231.
- ACC 331 Intermediate Accounting II (3) i, ii**
A continuation of the critical study of balance sheet accounts and intensive analysis of financial statements.
Prerequisite: ACC 330.
- ACC 332 Accounting Systems and Control (3) i, even years**
Design of accounting systems from pen-and-ink journals to electronic data processing including forms design, internal control concepts, and other methods of control (accounting machines, microfilming, and cash registers). Major emphasis on billing, sales, purchases, and payroll procedures.
Prerequisite: ACC 231.
- ACC 333 Cost Accounting (3) i, ii**
A study of cost accounting procedures with emphasis on the basic theory and procedures of allocating materials, labor, and manufacturing expenses in job order and process cost systems.
Prerequisite: ACC 231.
- ACC 334 Budgets and Budgeting Control (3) i, odd years**
Theory and procedures in the development of financial and operating budgets as managerial devices for profit planning and general budgetary control in business.
Prerequisite: ACC 231.
- ACC 335 Government and Institutional Accounting (3) on demand**
Accounting principles and procedures relating to schools, hospitals, and other non-profit institutions, and to cities, counties, and other governmental units.
Prerequisite: ACC 231.
- ACC 336 Tax Accounting (3) i**
An introduction to taxation which includes both federal and state taxes which many small businessmen and individuals are subject to. Includes payroll, sales, and income taxes. The area of income taxes includes an exposure to individual partnership and corporate income taxation.
Prerequisite: ACC 231.
- ACC 430 Advanced Accounting Problems (3) i**
An accounting problems course with emphasis on problems facing partnership and corporate business organizations. Major emphasis is placed on; forms of the business organization, maintenance of the business organization, expansion of the business organization (mergers and consolidated statements and contraction of the business organization, liquidations, and reorganizations).
Prerequisite: ACC 331.
- ACC 431 Seminar in Accounting Theory (3) ii**
Objective of the course is to familiarize students with the current accounting issues and literature. Includes development of accounting theory, accounting concepts, and objectives of accounting. The course requires students to research basic accounting issues.
Prerequisite: ACC 331.

- ACC 432 Advanced Cost Accounting (3) ii, even years**
Special problems of cost analysis such as joint product costs, differential costs, standard costs, estimated cost, budget and distribution costs.
Prerequisite: ACC 333.
- ACC 433 Auditing (3) ii**
Verification of records, valuation and analysis of accounts and presentation of conditions. Practical audit cases.
Prerequisite: ACC 331.
- ACC 439 Advanced Tax Accounting (3) ii**
Special problems in the area of individual, partnership, and corporate taxation. This includes sales and disposition, of property, pension plans, liquidation and reorganization of business organizations. Course also includes tax planning and introduction to federal estate and gift taxation.
Prerequisite: ACC 336.

BANKING

- BAN 250 Principles of Bank Operations (3) ii, at night**
Fundamentals of bank functions presented in a descriptive fashion from a broad and operational perspective.
- BAN 251 Savings and Time Deposit Banking (3) ii, even years at night**
Historical development of savings institutions and basic economic functions of the savings process. Review of the economics of the savings process, emphasizing differences between financial savings and savings that lead to capital formation. Different types of financial savings are reviewed in order to describe the system of financial flows of income to capital investment.
- BAN 252 Trust Functions and Services (3) i, odd years at night**
Introduction to the services and duties involved in trust operations. Clarifies distinction between business and legal aspects of trust functions.
- BAN 253 Bank Management (3) i, at night**
New trends in the philosophy and practice of bank management. Features case studies as an instructional device to provide new as well as experienced bank personnel with a working knowledge of bank management.

BUSINESS EDUCATION

- BUS 455 Methods of Teaching Business Subjects (3) i**
A study of the methods and activities for teaching business education in the secondary school. To be taken concurrently with SED 303 Experience in Secondary Teaching II.
Prerequisite: Consent of advisor.

ECONOMICS

- ECO 160 Personal Economics (3) i, ii**
A practical course designed to assist students in becoming more rational consumers in such areas as housing, transportation, insurance, and other consumer items. Also covers techniques of financial

planning, budgeting, and a variety of investments. Does not count as an economics elective toward a major in economics.

- ECO 260 Principles of Economics I (3) i, ii, iii**
An introduction to basic principles of economics with emphasis on the analysis of unemployment, GNP, inflation, and public debt. Fiscal and monetary theories and public policies are also discussed.
- ECO 261 Principles of Economics II (3) i, ii**
A continuation of economic fundamentals but with emphasis on supply and demand analysis, factor markets, different market structures, international economics, and various current economic problems.
Prerequisite: ECO 260.
- ECO 360 Macroeconomic Theory (3) ii**
Intermediate level theory course that examines closely the determinants of GNP, employment, and inflation. Emphasis is placed upon economic model building (both Classical and Keynesian) and the use of monetary and fiscal policies to control the business cycle and inflation.
Prerequisite: ECO 261.
- ECO 361 Price Theory (3) i**
A theoretical approach to the behavior of the individual buyer and seller in the marketplace. Areas studied include consumer demand theory, costs of production, and the market structures ranging from pure competition to monopoly.
Prerequisite: ECO 261.
- ECO 362 Public Finance (3) ii**
A study of the principles of taxation and public expenditures, the impact of fiscal policy on economic and social activity, and recent trends in public finance at the federal, state, and local levels.
Prerequisite: ECO 261.
- ECO 363 Money and Banking (3) i**
Continuation and expansion of the money and banking concepts introduced in ECO 260. Areas of study include: money, banks and other financial intermediaries, the Federal Reserve System, concepts of monetary control, monetary policy, and international banking.
Prerequisite: ECO 260 and ACC 230.
- ECO 364 Labor Economics (3) ii**
Introductory course dealing with the institutional aspects of the American labor force, its organization, wage and employment theory, the economic role of bargaining, and the basic ingredients of public policy toward labor organizations.
Prerequisite: ECO 260.
- ECO 365 Government Regulation of Business (3) i**
Analysis of the legislative and legal control of business and its implications on the various economic components of the American economy.
Prerequisite: ECO 261.
- ECO 367 Urban and Regional Economics (3) ii**
Examination of economic growth in the United States with emphasis on the problems of economic growth in the Midwest. Attention is given to the factors instrumental in determining economic growth in various segments of the economy. Urban problems associated with growth are

also considered.

Prerequisite: ECO 261.

- ECO 460 Business Cycles and Forecasting (3) i, odd years**
Study of the cyclical fluctuation of the economy by means of theoretical, graphical, and quantitative methods and use of basic economic and business forecasting techniques.
Prerequisite: ECO 261 and MGT 210.
- ECO 461 International Economics (3) ii, odd years**
Introduction to the study of the theory of international economics with emphasis on international trade, flows of funds, foreign exchange, balance of payments, and world economic interdependence.
Prerequisite: ECO 261.
- ECO 462 History of Economic Thought (3) ii, even years**
Study of the development of various schools of economic thought. Topics covered include classical, neo-classical, institutional, Keynesian, and new-Keynesian theories.
Prerequisite: ECO 261.
- ECO 463 Comparative Economic Systems (3) i, even years**
Analytical study of the major alternative economic systems — capitalism, socialism, planned economies and mixed capitalism — with emphasis of the different economic and social problems associated with each type.
Prerequisite: ECO 261.
- ECO 466 Current Economic Problems (3) i**
Analytical study of various problems of current interest in economics. Course generally offered by arrangement only.
Prerequisite: Senior standing.

MANAGEMENT

- MGT 110 Business Organization (3) i, ii, iii**
Introduction to the various activities and organizational structures in the business community. A general survey course that includes aspects of accounting, economics, management, and marketing.
- MGT 116 Business Mathematics (3) i, ii, iii**
An introduction to the daily mathematical problems that arise in business. Topics covered include: basic algebraic operations in business; ratio, proportion, and percentage, simple and compound interest; negotiable instruments; present worth; annuities; bond yields; retailing mathematics, and debt extinction.
- MGT 210 Business Statistics I (3) i, ii**
A study of descriptive and inductive statistical methods as they apply to decision making in business and economics.
Prerequisite: MAT 105.
- MGT 310 Business Law I (3) i, ii**
An introduction to the legal environment of business. Examination of the constitutional and historical foundations of the American legal system. Emphasis is placed upon the area of contracts, personal property, bailments, and sales.
- MGT 311 Business Law II (3) i, ii**
A continuation of Business Law I with emphasis on negotiable instruments and se-

curity devices under the Uniform Commercial Code. Partnerships and corporations and other related areas are also discussed.

Prerequisite: MGT 310

MGT 312 Principles of Management (3) i, ii

A study of the objectives and functions of a business enterprise with emphasis upon management principles of planning, organizing and controlling the organization.

Prerequisite: ACC 230.

MGT 313 Business Statistics II (3) ii

Emphasis on the statistical analysis of business and economic data and how this data aids in controlling operations and making sound business decisions.

Prerequisite: MGT 210.

MGT 315 Financial Management (3) i, ii

An introductory survey of the issues which face the financial manager of a firm. Such pressing issues as the liquidity vs. profitability decision, capital budgeting, planning needs, and controlling uses of funds as well as the methods of procuring funds will be dealt with.

Prerequisite: ACC 231 and MAT 105.

MGT 316 Principles of Insurance (3) i

Nature and uses of insurance, structure, management, and regulation of insurance carriers; economic risk; principles of personal property, life, and casualty insurance.

MGT 319 Business Communications (3) i, ii

Designed to meet the needs of business for better communications — written or oral. Covers principles of research, organization, and presentation of written memoranda; letters, and reports. Oral presentations help develop necessary skills required in a business environment.

MGT 410 Small Business Management (3) i

Deals with all major aspects of starting and managing a small business. Topics covered include: factors in success and failure; methods of becoming a small business owner; capital requirements; sources of finance; employee and supplier relations; sales promotion; and control.

Prerequisite: MGT 312 and MKT 370.

MGT 411 Investment Analysis (3) ii

A critical approach to security analysis. Designed to present means of securing information about securities so as to permit dependable decisions to be made concerning their value and attractiveness at given prices.

Prerequisite: MGT 210 and MGT 315.

MGT 412 Personnel Management (3) ii

Policies and practices in personnel management, such as job analysis, selection of employees, placement training, employee services, and industrial relations.

Prerequisite: MGT 312.

MGT 413 Real Estate (3) ii

Principles of land evaluation and development. Problems relating to the purchase, transfer, lease, financing, and management of land and buildings are considered.

Prerequisite: MGT 310.

MGT 415 Administrative Supervision (3) i

An examination of the human problems in the supervisor-subordinate relationship. Principles are relevant to all types of organization — business, service, government.

Prerequisite: MGT 312.

MGT 416 Production Management (3) i

Development of scientific management principles and methods or organization and management in manufacturing including plant location and scheduling and production operating and information systems.

Prerequisite: MGT 210 and MGT 312.

MGT 417 Credit Management (3) ii

Designed to meet the needs of people who are now — or who will be — involved with the management of credit and collection activities of business organizations (or of their own personal affairs). The course will deal with the types, regulation, management, analysis, and control of commercial and consumer credit.

Prerequisite: ECO 260 and MGT 315.

MGT 419 Business Policy (3) ii

Examination of current problems and issues facing business in a changing society.

Prerequisite: MGT 312 and senior standing.

MGT 420 Small Business Counseling Practicum (3) i, ii

Provides an opportunity to address real problems of the business entrepreneur by integration of concepts developed in accounting, economics, management, and marketing courses. Student teams act as management consultants to local business entrepreneurs whose problems have been screened by the SBA.

Prerequisite: Completion of Freshman/Sophomore and Professional Cores, senior standing, and consent of department chairman.

MGT 421 Small Business Counseling Practicum (3) i, ii

A continuation of MGT 420, permitting a student an opportunity for an additional 3 hours of experience with real problems of the business entrepreneur. May not be taken concurrently with MGT 420.

Prerequisite: MGT 420 and consent of department chairman.

MARKETING

MKT 370 Principles of Marketing (3) i, ii

A basic course defining the role of the marketer and marketing within our society and economy. Attention is paid to all interacting forces within the firm, dealing with price, promotion, distribution, personal selling, and product and economy aspects.

Prerequisite: ECO 260 and ECO 261 (at least taken concurrently).

MKT 371 Principles of Retailing (3) ii

A practical study of the underlying principles of retail store management with emphasis on basic retailing activities of buying, merchandising, and promotion.

Prerequisite: MKT 370.

- MKT 372 Physical Distribution (3) ii**
An analysis of the physical distribution functions in marketing with emphasis on transportation methods, material handling, and facility location as elements of an integrated system.
Prerequisite: MKT 370.
- MKT 374 Salesmanship (3) i**
Study of the practical methods, principles, procedures, and policies of a professional salesman.
- MKT 375 Industrial Marketing (3) ii, even years**
Analysis of the structure of marketing for industrial and wholesaling activities. Extensive study is made in industrial salesmanship, warehousing, and wholesaling problems.
Prerequisite: MKT 370.
- MKT 376 Advertising (3) i**
A survey of the fundamentals of market promotion, including advertising media. Creative advertising, advertising agencies, and the advertising campaign are discussed.
Prerequisite: MKT 370.
- MKT 377 International Marketing (3) i, odd years**
This course is designed to provide the student with an overall view of the structure and approaches to international marketing. Special emphasis is placed on methods of evaluating and implementing international marketing opportunities. In addition, cultural, political, legal, and financial considerations are viewed as they relate to the total international marketing mix.
Prerequisite: MKT 370.
- MKT 378 Product Strategy (3) i**
The course is designed for students interested in the area of product management of product development, placement, maintenance, and withdrawal. Special attention will be given to application of marketing techniques to new products.
Prerequisite: MKT 370.
- MKT 470 Marketing Management (3) i**
This course presents stimulating and timely facsimiles about today's management of the marketing function. With emphasis on the pragmatic application of marketing concepts, the student assumes the role of business practitioner and through either leadership or participation is given ample opportunity to integrate the marketing mix. The course is attractive to persons concerned with where marketing is and where it is going.
Prerequisite: MKT 370.
- MKT 471 Consumer Relations and Behavior (3) i**
A consideration of the influences on consumer motivation and behavior. Discussion of how the behavioral sciences relate to marketing.
Prerequisite: MKT 370.
- MKT 472 Sales Management (3) ii**
Application of sales management concepts to administration, planning, training, and acquisition of the sales force for a business.
Prerequisite: MKT 370.

- MKT 473 Marketing Research (3) ii**
Analysis of markets and marketing problems by various research methods. Special emphasis will be given to project management.
Prerequisite: MGT 210, MKT 370, and senior standing.

- MKT 474 Marketing Seminar (3) ii**
A seminar of case situations dealing with various strategy alternatives involved in marketing problem solving. Special attention is given to the marketing mix and the use of marketing research and decision making.
Prerequisites: senior standing and twelve hours of marketing.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN
BUSINESS ADMINISTRATION DEGREE
MAJOR IN ACCOUNTING**

Freshman Year
Fall Semester

ENG 104	English Composition.....	3
PSC 101	Am. Nat'l. Govt. or Am. History	3
MAT 105	College Algebra	3
MGT 110	Business Organization (optional).....	3
MGT 116	Business Mathematics (optional)	3
PED 101	Concepts of Physical Activity.....	1
	—	16

Spring Semester

ENG 108	English Composition.....	3
ACC 230	Prin. of Accounting I.....	3
	Social Science or Psychology	3
	General Studies IV elective.....	4-5
	General Studies III elective.....	3
	—	16-17

Sophomore Year
Fall Semester

	Speech.....	3
ACC 231	Prin. of Accounting II.....	3
ECO 260	Principles of Econ. I.....	3
MGT 210	Business Statistics I.....	3
	General Studies III elective.....	3
	Physical Education activity	1
	—	16

Spring Semester

ACC	Interm. Acct. I or Cost Acct.....	3
ECO 261	Principles of Economics II.....	3
CSC 182	Intro. to Data Processing.....	3
MGT 310	Business Law I.....	3
	Physical Education activity	1
	General Studies IV elective.....	4-5
	—	17-18

Junior Year

Fall Semester

MKT 370	Principles of Marketing.....	3
ACC	Cost Acct. or Interm. Acct. I.....	3
MGT 312	Principles of Management.....	3
	General Studies III elective.....	3
	Economics elective.....	3
	Physical Education activity.....	1
		—
		16

Spring Semester

ACC 331	Intermediate Accounting II.....	3
	Accounting elective.....	3
	Business & Economics elective.....	3
MGT 315	Financial Management.....	3
		—
		15

Senior Year

Fall Semester

ACC 366	Tax Accounting.....	3
MGT 319	Business Communications.....	3
	Additional Accounting Requirement.....	3
	(COBOL, Bus. Law II, or Bus. Stat. II)	
	General Studies II elective.....	3
	Elective.....	3
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		15

Spring Semester

ACC 433	Auditing.....	3
	Accounting elective.....	3
	Electives.....	9
		—
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION DEGREE
MAJOR IN ECONOMICS**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
	General Studies II elective.....	3
	Elective.....	3
ECO 260	Principles of Economics I.....	3
ACC 230	Prin. of Accounting I.....	3
PED 101	Concepts of Physical Activity.....	1
		—
		16

Spring Semester

ENG 108	English Composition.....	3
	General Studies II course.....	3
MAT 105	College Algebra.....	3
ACC 231	Prin. of Accounting II.....	3
ECO 261	Principles of Economics II.....	3
	Physical Education activity.....	1
		—
		16

Sophomore Year

Fall Semester

SPH	104, 105, 106.....	3
	General Studies IV elective.....	4-5
MGT 210	Business Statistics I.....	3
	General Studies II elective.....	3
	Elective.....	3
		—
		16-17

Spring Semester

	General Studies III elective.....	3
ECO 360	Macroeconomic Theory.....	3
	General Studies IV elective.....	4-5
	Economics elective.....	3
	Elective.....	3
		—
		16-17

Junior Year

Fall Semester

MGT 312	Prin. of Management.....	3
MGT 310	Business Law I.....	3
ECO 361	Price Theory.....	3
ECO 363	Money and Banking.....	3
	General Studies III elective.....	3
	Physical Education activity.....	1
		—
		16

Spring Semester

MGT 315	Financial Management.....	3
MKT 370	Principles of Marketing.....	3
MGT 319	Business Communications.....	3
	General Studies III elective.....	3
	Economics elective.....	3
	Physical Education activity.....	1
		—
		16

Senior Year

Fall Semester

	Economics elective.....	3
	Electives.....	9
	Business elective.....	3
		—
		15

Spring Semester

	Economics elective.....	3
	Electives.....	12
		—
		15

Electives in the senior year might be geared toward additional courses in Economics to strengthen background in that field. The student may also wish to develop stronger backgrounds in the fields cognative to economics such as accounting, management, and marketing. Greater development of tools in mathematics and statistics may also prove worthwhile.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE
IN BUSINESS ADMINISTRATION DEGREE
MAJOR IN MANAGEMENT**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
SPH	104, 105 or 106	3
	General Studies II elective	3
MAT 105	College Algebra	3
	Bus. Org. or Bus. Math. (optional).....	3
PED 101	Concepts of Physical Activity.....	1
	—	16

Spring Semester

ENG 108	English Composition.....	3
	General Studies II elective	3
	Literature or Humanities course	3
	General Education.....	6
	Physical Education activity	1
	—	16

Sophomore Year

Fall Semester

ACC 230	Prin. of Accounting I.....	3
ECO 260	Principles of Economics I.....	3
	General Studies II elective	3
	General Studies III elective.....	3
	General Studies IV elective.....	4-5
	—	16-17

Spring Semester

ACC 231	Prin. of Accounting II.....	3
ECO 261	Principles of Economics II.....	3
MGT 210	Business Statistics I.....	3
	General Studies III elective.....	3
	Electives	3
	Physical Education activity	1
	—	16

Junior Year

Fall Semester

MGT 310	Business Law I.....	3
MKT 370	Principles of Marketing.....	3
MGT 312	Principles of Management.....	3
ACC 333	Cost Accounting.....	3
	Elective.....	3
	Physical Education activity	1
	—	16

Spring Semester

MGT 319	Business Communications.....	3
MGT 315	Financial Management	3
	Management electives per requirements.....	6
	Electives	3
	—	15

Senior Year

Fall Semester

Management elective per requirements.....	6
Electives	9
—	15

Spring Semester

MGT 412	Personnel Management	3
	Management electives per requirements.....	6
	Electives	6
	—	15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN
BUSINESS ADMINISTRATION DEGREE
MAJOR IN MARKETING**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
	Am. Nat'l. Govt. or Am. Hist.....	3
MAT 105	College Algebra	3
MGT 110	Business Organization (opt.).....	3
MGT 116	Business Math (optional)	3
PED 101	Concepts of Physical Activity.....	1
	—	16

Spring Semester

ENG 108	English Composition.....	3
SPH	104, 105, OR 106	3
	General Studies III elective	3
ECO 260	Prin. of Economics I	3
	General Studies IV elective.....	4-5
	—	16-17

Sophomore Year

Fall Semester

	Humanities or Lit.....	3
ECO 261	Prin. of Economics II	3
ACC 230	Prin. of Accounting I.....	3
MGT 210	Business Statistics I.....	3
	General Studies II elective	3
	Phys. Ed. activity	1
	—	16

Spring Semester

	Social Science course.....	3
MKT 370	Prin. of Marketing.....	3
ACC 231	Prin. of Acctng. II.....	3
	General Studies IV elective.....	4-5
	General Studies III elective.....	3
	—	16-17

Junior Year
Fall Semester

MGT 312	Prin. of Management	3
MGT 310	Business Law I	3
MGT 319	Business Communications.....	3
MKT 375	Advertising	3
	Elective.....	3
	Physical Education activity	1
		<hr/>
		16

Spring Semester

MGT 315	Financial Management	3
MGT 472	Sales Management	3
	Electives	9
	Physical Education Activity.....	1
		<hr/>
		16

Senior Year
Fall Semester

MKT 470	Marketing Management	3
MKT 473	Marketing Research	3
	Marketing elective	3
	Electives	6
		<hr/>
		15

Spring Semester

MKT 474	Marketing Seminar	3
	Marketing elective	3
	Bus. and Econ. elective	3
	Electives	6
		<hr/>
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN BUSINESS EDUCATION**

Freshman Year
Fall Semester

ENG 104	English Composition	3
	General Studies II elective	3
	Business Ed. elective	3
SEC 140	Beginning Typewriting	3
	Business Ed. elective	3
PED 101	Concepts of Physical Activity	1
		<hr/>
		16

Spring Semester

ENG 108	English Composition	3
SPH	104, 105, or 106	3
MAT 105	College Algebra	3
SEC 141	Intermediate Typing	3
	Business Ed elective	3
	Physical Education activity	1
		<hr/>
		16

Sophomore Year
Fall Semester

	General Studies II elective	3
	General Studies III elective.....	3
	Business Ed. elective	3
ACC 230	Prin of Accounting I	3
	Bus. Math or Bus. Stat. I	3
	Physical Education activity	1
		<hr/>
		16

Spring Semester

	General Studies IV elective.....	5
ACC 231	Prin. of Accounting II.....	3
	Business Ed. elective	3
ECO 260	Principles of Economics I	3
	Physical Education activity	1
		<hr/>
		15

Junior Year
Fall Semester

	General Studies IV elective.....	4
ACC 330	Interm. Accounting I.....	3
	Business Ed. elective	3
	Business Ed. elective	3
SED 202	Participation in Teaching I.....	3
		<hr/>
		16

Spring Semester

	General Studies III elective.....	6
	General Studies II elective	3
MGT 310	Business Law I	3
	Elective	3
	Physical Education elective	1
		<hr/>
		16

Senior Year
Fall Semester

BUS 455	Methods of Teaching Bus. Subj.	3
SED 303	Experience in Teaching II.....	3
EED 305	Psychology in Teaching.....	4
	Elective	2
	Elective	3
		<hr/>
		15

Spring Semester

SED 404	Foundations in Secondary Educ.....	3
SEC 407	Psych. & Ed. of the Except. Student	2
SED 409	Sec. Student Teaching III.....	9
		<hr/>
		14

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE IN
MID-MANAGEMENT—ACCOUNTING**

Freshman Year

Fall Semester

MGT 110	Business Organization.....	3
ACC 230	Prin. of Accounting I.....	3
ECO 260	Principles of Economics I.....	3
ENG 104	English Composition.....	3
PED 101	Concepts of Physical Activity.....	1
MGT 116	Bus. Math or 210 Bus. Stat.	3
		—
		16

Spring Semester

ACC 231	Prin. of Accounting II.....	3
ECO 261	Principles of Economics II.....	3
SPH	104, 105 or 106	3
	Electives	6
	Physical Education activity	1
		—
		16

Sophomore Year

Fall Semester

ACC 330	Intermediate Accounting I.....	3
ACC 333	Cost Accounting.....	3
	Am. Hist. or Am. Nat'l. Gov't.....	3
MGT 312	Principles of Management.....	3
	Elective.....	3
		—
		15

Spring Semester

ACC 331	Intermediate Accounting II	3
	General Studies III elective.....	3
	*Business elective.....	3
	Electives	6
		—
		15

*Business elective should be upper level course in business or economics to provide student with additional skill consistent with career objectives.

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE IN
MID-MANAGEMENT—BANKING AND FINANCE**

Freshman Year

Fall Semester

MGT 110	Business Organization.....	3
ACC 230	Prin. of Accounting I.....	3
ECO 260	Principles of Economics I.....	3
ENG 104	English Composition.....	3
MGT 116	Bus. Math or 210 Bus. Stat.	3
PED 101	Concepts of Physical Activity.....	1
		—
		16

Spring Semester

ACC 231	Prin. of Accounting II.....	3
ECO 261	Principles of Economics II.....	3

	Elective.....	3
SPH	104, 105, or 106	3
BAN 253	Bank Management	3
	Physical Education activity	1
		—
		16

Sophomore Year

Fall Semester

MGT 310	Business Law I	3
MGT 315	Financial Management.....	3
	Banking and Finance elective.....	3
	Am. Hist. or Am. Nat'l. Gov't.....	3
	Elective.....	3
		—
		15

Spring Semester

	Banking and Finance elective.....	3
MGT 312	Principles of Management.....	3
	General Studies III elective.....	3
	Electives	6
		—
		15

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE IN
MID-MANAGEMENT—DATA PROCESSING**

Freshman Year

Fall Semester

MGT 110	Business Organization.....	3
ACC 230	Prin. of Accounting I.....	3
MGT 116	Bus. Math or 210 Bus. Stat.	3
CSC 182	Intro. to Data Processing.....	3
ENG 104	English Composition.....	3
PED 101	Concepts of Physical Activity.....	1
		—
		16

Spring Semester

ACC 231	Prin. of Accounting II.....	3
ECO 260	Principles of Economics I.....	3
	Elective	3
SPH	104, 105, or 106	3
CSC 240	Intro. to RPG.....	3
	Physical Education activity	1
		—
		16

Sophomore Year

Fall Semester

CSC 245	Introduction to COBOL	3
	Am. Hist. or Am. Nat'l. Gov't.....	3
MGT 310	Business Law I	3
MGT 312	Principles of Management.....	3
ECO 261	Principles of Economics II.....	3
		—
		15

Spring Semester

CSC 345	Advanced COBOL.....	3
	General Studies III, elective.....	3
	Electives	6

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE IN
MID-MANAGEMENT—RETAILING**

Freshman Year

Fall Semester

MGT 110	Business Organization.....	3
ACC 230	Prin. of Accounting I.....	3
ECO 260	Principles of Economics I.....	3
ENG 104	English Composition.....	3
MGT 116	Bus. Math or 210 Bus. Stat.....	3
PED 101	Concepts of Physical Activity.....	1
		—
		16

Spring Semester

ACC 231	Prin. of Accounting II.....	3
ECO 261	Principles of Economics II.....	3
MGT 370	Principles of Marketing.....	3
	Elective.....	3
SPH	104, 105, or 106.....	3
	Physical Education activity.....	1
		—
		16

Sophomore Year

Fall Semester

MKT 376	Advertising.....	3
MKT 274	Salesmanship.....	3
	Am. Hist. or Am. Nat'l. Gov't.....	3
	General Studies III, elective.....	3
	Elective.....	3
		—
		15

Spring Semester

MKT 371	Principles of Retailing.....	3
MGT 312	Principles of Management.....	3
	Electives.....	9
		—
		15



TEACHER EDUCATION

Dr. S. Haynes — chairman
Dr. J. Aschermann
G. Ashworth
S. Crump
M. Fields

H. Gettys
Dr. T. Hanson
Dr. F. Kump
Dr. D. Mahaffy
Dr. L. Marion

The Department of Education is concerned with the total process of helping individuals become teachers. Students who wish to become elementary or secondary teachers learn to understand and utilize the principles of learning, human growth and development, and interpersonal relationships. The department also provides the student with specialized educational experiences in participating elementary and secondary schools under the supervision of experienced master teachers. The professional training of the prospective teacher is normally scheduled throughout the sophomore, junior and senior years, culminating within a final professional semester. The professional education sequence complements a broad general education curriculum. A sound command of a major teaching field is integrated throughout the four year program. The Missouri Western State College Teacher Education Program is accredited by the National Council for Accreditation of Teacher Education (NCATE).

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The Department of Education offers a major in elementary education for the degree of Bachelor of Science in Education. The Bachelor of Science in Education with an emphasis in secondary education is offered in conjunction with other departments. All degree programs satisfy the appropriate requirements for teacher certification as established by the State Department of Education of Missouri. To be certified to teach the candidate must have fulfilled all degree requirements and must, according to Section 168.031 of the Missouri School Laws, present evidence of good moral character.

The Department of Education offers an Associate of Science degree with a major in Elementary Education — Teacher Aide. Admission to the Teacher Education Program:

GENERAL REQUIREMENTS:

The applicant's record must be without incident which could be found detrimental to future success as a teacher.

The applicant must be of good moral character as demonstrated by objective evidence,

be free from gross physical and mental defects which could make success as a teacher unlikely. At Department discretion test evidence could be required.

Have command of standard acceptable English usage and be able to communicate as expected of a teacher,

be a student in good standing by the standards of Missouri Western State College, and, receive approval by the Teacher Education Admissions and Retention Committee.

SPECIAL REQUIREMENTS:

For admission to the Participation in Teaching I program, the student must submit an application as determined by those in charge of the teacher education program, and have a 2.0 overall grade point average. For admission to the Experience in Teaching II program, the student must:

successfully complete Participation in Teaching I;

submit the designated application;

have a 2.0 overall grade point average; and,

have the recommendation of college and cooperating school personnel.

For admission to the Student Teaching III program, the student must:

successfully complete Experience in Teaching II;

submit the designated application;

have a 2.3 grade point average in major field and professional sequence courses;

have a 2.0 overall grade point average;

have at least a 2.0 for each course in the professional sequence; and,

have the recommendation of college and cooperating school personnel.

Completion: To be recommended for certification a student must have at least a 2.0 in his student teaching experience. Such refusal of certification will be so stated on the person's transcript.

Special Programs:

Academic Contracts (1-and2-year temporary Missouri Certification):

Academic Contracts are available at Missouri Western State College. Interested persons should contact the Chairman of the Department of Education.

Summer Student Teaching is offered for experienced teachers only and will be arranged with the Chairman of the Department of Education.

ELEMENTARY and SPECIAL EDUCATION

The Department of Education Faculty is committed to the professional preparation of teachers for employment in elementary and special education programs. The goals are to prepare teachers who are:

- highly knowledgeable in the cognitive areas,
- trained in the techniques and methods

of teaching across the wide spectrum (early childhood through elementary grades),

warm, understanding, and empathetic in the area of humanizing education, and

ready to assume an active role in the profession of teaching.

DEGREE REQUIREMENTS

General Studies requirements must be satisfactorily completed.

In addition to the general studies and the professional sequence, the elementary major is required to successfully complete the following courses: GEO 100, PSC 101, HIS 140 and 150, ART 300, MUS 300, EED 310, 320, 383, and PED 300 and 382, ESC 304, ENG 300, and MAT 300* and 400*. Some of these courses meet General Studies and Elementary Education requirements.

*To meet the wide variance of individual mathematical backgrounds elementary majors may elect to be placed after consulting the Mathematical Sciences and Education Departments according to the following:

High school graduate five years or more ago with one year general math or with one year of Algebra with a C/D grade — take MAT 100, 101, 300 and 400.

Algebra 1 with A/B within past five years enroll in MAT 101, 300 and 400.

Three or more years of college-prep, high school math A/B enroll in MAT 300 and 400.

The elementary major may also select an emphasis area. The requirements are determined by the Certification Section,

Missouri State Department of Education. Such extensions to the Life Elementary Certification entitle the holder to teach grades 7-9 in a subject matter area.

The emphasis areas include:

ART	PHYSICAL
ENGLISH	EDUCATION
FOREIGN	GENERAL
LANGUAGE	SCIENCE
MATHEMATICS	SOCIAL
MUSIC	SCIENCE

Special certificates are available in the areas of:

- EARLY CHILDHOOD EDUCATION
- REMEDIATION READING
- TEACHING OF THE MENTALLY RETARDED CHILD
- TEACHING OF THE EMOTIONALLY DISTURBED CHILD
- TEACHING OF THE LEARNING DISABLED CHILD.

The requirements for emphasis areas and specialized certificate programs are available from the elementary education advisors. Early planning of one's total program is highly desirable for the achievement of concurrent, multiple certification.

Professional Sequence is:

- EED 202 Participation in Elem. Teaching I 3
- EED 303 Experience in Elem. Teaching II 3

EED 305 Psychology in Elem. Teaching 4
 EED 403 Foundations in Elem. Education 2
 EED 408 Elem. Student Teaching III 10

EED 410 Psychology and Education of the
 Exceptional Child 2
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EED 101 Speed Reading (2) i, ii
 The course is designed to improve the skills, speed, and comprehension of those individuals who feel a need for such improvement in school, profession, business, or recreational pursuits. The course is open to both regularly enrolled students or any interested individual.

EED 202 Participation in Elementary Teaching I (3) i, ii
 (Applicable to all teacher education students) To help the student in his career choice, half of the course is devoted to a classroom situation where an introduction to education, its history and philosophy is given. The second half of the course is devoted to a "in-school experience", giving the student realistic guidance in his career choice.

EED 303 Experience in Elementary Teaching II (3) i, ii
 (Applicable to all teacher education students) A continuation of the off-campus experiences in cooperating schools as a teacher associate. To be taken concurrently with EED 305 or SED 304.
Prerequisite: Approved admission to the Teacher Education Program and Education 202. For elementary majors, EED 310 is a prerequisite.

EED 305 Psychology in Elementary Teaching (4) i, ii
 A study of psychological principles as applied to educational settings. To be taken concurrently with EED 303.
Prerequisite: PSY 101 and EED 202.

EED 310 Teaching of Reading in the Elementary School (3) i, ii
 Developmental reading, the techniques of teaching reading in the elementary grades.
Prerequisite: ENG 104 and 108 or 112.

EED 311 Teaching Reading in the Secondary School (3) ii
 Techniques of teaching upper-level reading.
Prerequisite: ENG 104 or 108 or 112.

EED 320 Language Arts Methods (3) i, ii
 A general survey course to integrate the skills of listening, writing, and speaking with the reading skills.

EED 322* Language Arts Components (1-6) i
 A componently-sectioned course designed to give students in-depth experiences in selected sections to meet special needs and interests. A student may take as many sections as desired.
 a. Creative Dramatics b. Written Expression c. Poetry d. Listening e. Speech Development f. Handwriting g. Oral Communication h. Spelling i. Grammar and Linguistics j. Language Arts for Children.

SED 331* Audio-Visual Education (1-3) i
 (See Secondary Education)

EED 342 Measurement and Evaluation in Education (3) i, ii
 Principles and techniques of administration, application and interpretation of tests, test results, and data for education majors.
Prerequisite: EED 303 and EED 305 — SED 304, MAT 201 or consent of Department Chairman.

EED 383 Diagnostic and Corrective Reading for the Classroom Teacher (3) i, ii
 Evaluation and diagnosis of basic problems.
Prerequisite: EED 310 or 311.

EED 385* Explorations in Reading Approaches (1-6) ii
 A componently-sectioned course designed to give students in-depth experiences in selected sections to meet special needs and interests. The refinement of teaching techniques using particular reading methods to prepare teachers for those programs which are currently used in area schools. It is recommended that a student take no more than six sections. Each section is one semester hour.
 a. Phonic Methods b. Linguistic Methods c. Enrichment Methods d. Language Experience e. Individual Methods f. Basal Programs
Prerequisite: EED 310 or 311.

EED 403 Foundations in Elementary Education i, ii
 An introduction and appraisal of the problems facing the teacher in the classroom, school, and society. To be taken concurrently with EED 408.

EED 408 Elementary Student Teaching III (10) i, ii
 A semester of clinical experience in an off-campus situation under a cooperating teacher. To be taken concurrently with EED 403.
Prerequisite: EED 202, 303, 305.

EED 410 Psychology and Education of the Exceptional Child (2) i, ii
 A course designed to give all teachers background and experience in working with the exceptional child in the regular classroom.
Prerequisite: EED 305.

EED 413 Speech Correction for the Classroom Teacher (3) ii
 Methods and techniques of speech correction applied and utilized by the classroom teacher.

EED 414 Methods of Teaching the Mentally Retarded (3) i
 Special techniques for teaching a typical child.
Prerequisite: EED 303, 305, or approval of the Department Chairman.

EED 415 Methods of Teaching the Emotionally Disturbed (3) ii
 Special techniques for teaching the emotionally disturbed child.

Prerequisite: EED 303, 305 or approval of the Department Chairman.

EED 416 Methods — Learning Disabilities (3) ii
Special techniques for teaching the child with learning disabilities.
Prerequisite: EED 303, 305 or approval of the Department Chairman.

EED 440* Early Childhood Education (1-6) i, ii
A componently-sectioned course designed to give the student in-depth understanding of early childhood education. A student may elect one or more sections.
a. Creativity and the Preschooler b. Language Development c. Early Childhood Special Education d. Curriculum Development for Early Childhood e. Working with Parents of Young Children f. Utilization of Community Resources for the Young Child and his Parents.
Prerequisite: Approval of the Education Chairman.

EED 450 Independent Study (credit hours open) i, ii
A research-oriented involvement intended to extend the competencies of the student in a particular area of education.
Prerequisite: Approval of the Education Chairman.

EED 483 Practicum I in Reading (Diagnosis of Reading Difficulties) (4) i, ii
A clinical diagnosis in evaluation of reading and learning problems.
Prerequisite: EED 310, 383 and consent of the Education Chairman. (2 hours lecture, 3 hours laboratory.) Courses can only be taken on Missouri Western State College campus.

EED 484 Practicum II in Reading (Remediation of Reading Difficulties) (4) ii
A clinical treatment of identified reading and learning problems.
Prerequisite: EED 483. (2 hours lecture, 3 hours laboratory.) Course can only be taken on Missouri Western State College campus.

EED 490 Applied Education Practices (1-9)
Workshops will be developed in selected areas in accordance with interest and felt needs.

*Student's desires and needs will determine the selection of the three components offered in any one semester.

**** SAMPLE PROGRAM
ELEMENTARY EDUCATION**

**Freshman Year
First Semester**

ENG 104	English	3
MAT 101	Math.....	3
HIS 140	Am. History.....	3
SPH 104	Speech.....	3
PED 101	P.E. Concepts.....	1
PED 300	El. School Health.....	2
		<hr/>
		15

Second Semester

ENG 108	English	3
HIS 150	Am. History.....	3
BIO 101	Biology	5
GEO 100	Geography.....	3
	P.E. Activity.....	1
		<hr/>
		15

Sophomore Year

First Semester

EED 202	Participation I.....	3
EED 310	Elem. Reading.....	3
PSC 101	Pol. Sci. (Govt.).....	3
	Physical Sci.	4-5
	P.E. Activity.....	1
	Elective.....	2
PSY 101	Gen. Psych.....	3
		<hr/>
		19-20

Second Semester

MAT 300	Math.....	3
ENG 210	App. to Lit.	3
*PSY 312	Psych. of Ex. Child	3
	P.E. Activity.....	1
EED 383	Diag. Reading.....	3
	Elective.....	3
*EED 342	Meas./Eval.	3
		<hr/>
		19

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Junior Year

First Semester

EED 303	Experience II.....	3
EED 305	Psych. in Teaching.....	4
MUS 300	Music.....	3
ENG 300	Child. Lit.....	3
EED 320	Language Arts.....	3
		<hr/>
		16

Second Semester

MAT 400	Math.....	4
ESC 304	Environ. Sci.	4
ART 300	Art.....	3
PED 382	P.E.....	3
EED 410	Psy. and Ed. of Except. Child	2
	*EED 414, or EED 415, or EED 416.....	3
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		19

Senior Year

First Semester

EED 403	Foundations.....	2
EED 408	Student Teaching.....	10
	Elective	2
*SOC 110	Sociology	3
		<hr/>
		17

Second Semester

	Electives	3
*PSY 301	Child Psychology	3
*PSY 309	Abnormal Psychology	3
		9

The Department of Education has an overall objective of providing the secondary schools with the best possible teachers to staff the classrooms. In accordance with this overall objective are the specific objectives of producing secondary education graduates who are capable of:

teaching in one or more fields, so their backgrounds will allow them to bring expertise in the discipline to the students.

implementing the idea that "teachers

DEGREE REQUIREMENTS

The general studies requirements must be completed satisfactorily.

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The specific requirements in the major field are set by the departments. Secondary education majors are available in the following fields: Art, Biology, Business, Mathematics, Music, English, Chemistry, Physical Education, Social Science, Speech and Theatre. Certification in a second teaching area is available in the majority of the above named fields. Degree requirements for the B.S. in Ed successfully completed according to departmental standards, fulfill certification requirements of the Missouri State Department of Education. Missouri Western State College is accredited by the National Council for Accreditation of Teacher Education (NCATE).

The professional sequence is as follows:

Course		Semester Hrs.
SED 202	Introduction to Secondary Education	2
SED 203	Participation in Secondary Teaching I	1
SED 303	Experience in Secondary Teaching II	3
SED 304	Psychology in Secondary Teaching	4
SED 404	Seminar in Secondary Education and Human Relations	3

*For those interested in Special Education Certification.

**The above is a suggested program. An individual's course of study should be developed in consultation with his Elementary Education Advisor. The normal academic load is 15 credit hours per semester.

SECONDARY EDUCATION

teach students, not subject matter." The professional preparation in secondary education is well attuned to the human aspects of the educational process.

functioning in a variety of teaching situations, from the traditional to the innovative. In the professional preparation, attention is given to the new and different approaches to secondary education along with an exposure to the time-tested methods of teaching.

SED 407	Psychology and Education of the Exceptional Student	2
SED 409	Secondary Student Teaching III	9
		24

THE PROFESSIONAL SEMESTER

Secondary Student Teaching III (SED 409) is to be taken during the student's senior year.

Seminar in Secondary Education and Human Relations (SED 404) and Psychology and Education of the Exceptional Student (SED 407) are to be taken concurrently with Secondary Student Teaching III. This semester is designated as a Professional Education semester.

Course work during the Professional Education semester is usually limited to SED 404, SED 407, and SED 409.

Petition for any additional course work must be submitted to the Coordinator of Student Teaching in the semester prior to Secondary Student Teaching III. If granted, approval will be endorsed by the cooperating teacher to whom the student petitioner is to be assigned.

A student enrolled in Secondary Student Teaching III will assume the daily teaching schedule of the cooperating teacher.

- SED 100 Introduction to Personal Development (2) i**
An intensive eight week course designed to increase the participant's understanding of his/her unique role as a learner and to stimulate his/her desire to set and achieve personal learning goals. Specific activities will enhance the participant to become self-motivated and to pursue personal learning goals, to develop a positive, realistic self-concept, to develop positive interpersonal skills, and to examine his/her personal values.
(Pass/Fail)
- SED 202 Introduction to Secondary Education (2) i, ii**
A basic introduction to professional education. An on-campus exploratory course to aid the participant in deciding whether or not to become a teacher and provide for basic information and attitude development necessary to successful teaching. Taken the same semester as SED 203.
- SED 203 Participation in Secondary Teaching I (1) i, ii**
A laboratory course following SED 202 in the same semester. During this off-campus experience, the participant will serve as a teacher assistant. This exploratory course will provide the participant with concrete exposure to teaching, to students, and to the school.
Prerequisite: SED 202 — Approved admission to the Teacher Education Program.
- SED 303 Experience in Secondary Teaching II (3) i, ii**
A continuation of the off-campus experience in a cooperating school as a teacher associate. To be taken concurrently with SED 304.
Prerequisite: PSY 101, SED 202, and SED 203.
- SED 304 Psychology in Secondary Teaching (4), i, ii**
A course designed to study psychological principles as applied to educational settings. To be taken concurrently with SED 303.
Prerequisite: PSY 101, SED 202 and 203.
- SED 331 Audio-Visual Education (1-3) i**
A component course designed to give students in-depth experiences in selected areas of instructional Media/Audio-Visual Education: (1) Classroom Utilization and Selection of Instructional Media (2) Preparation of Instructional Materials (3) Equipment Operation. Students are required to provide their own supplies for preparing instructional materials. Components can be taken independently but it is recommended that all three components be taken during one semester. A lab fee will be charged.
- SED 404 Seminar in Secondary Education and Human Relations (3) i, ii**
A study of philosophical, ethical, and legal problems related to Secondary Education. Instructional strategies, including classroom and laboratory experiences are explored. Consideration is given to interpersonal relations as applied to teaching. To be taken concurrently with SED 407 and SED 409.
Prerequisite: SED 303 and SED 304.
- SED 407 Psychology and Education of the Exceptional Student (2) i, ii**
An introduction to the various areas of exceptionality and the methodology of working with these students. To be taken concurrently with SED 404 and SED 409.
Prerequisite: SED 303 and SED 304.
- SED 409 Student Teaching III (Secondary) (9) i, ii**
Full-time off-campus teaching experiences working with a cooperating teacher. To be taken concurrently with SED 404 and SED 407.
Prerequisite: SED 303, SED 304, and special methods course in the major.
- SED 410 Student Teaching IV (6)**
An on-campus course designed for the experienced teacher. Activities will include micro teaching and human relations training. Not open to baccalaureate degree candidates.
Prerequisite: one full academic year of teaching experience plus completion of a baccalaureate degree.
- SED 450 Independent Study (credit hours open) i, ii**
A research-oriented involvement intended to extend the competencies of the student in a particular area of education.
Prerequisite: Approval of the Education Chairman.
- SED 490 Applied Education Practices (1-9)**
Workshops will be developed in selected areas in accordance with demonstrated interest and need.
- EED 311 Teaching Reading in the Secondary School (3) i**
(See Elementary Education)

ENGINEERING TECHNOLOGY

V. Donnelly
J. Fuller
Dr. R. Holman

Dr. A. Kassimali
C. Kramer

The Department of Engineering Technology offers both two and four year programs in Engineering Technology with concentrations in either Civil-Construction or Electronics. Pre-

professional programs are also offered in architecture or engineering with transfer coordinated closely with a number of university programs.

ENGINEERING TECHNOLOGY:

Engineering Technology has been defined as that part of the technological field which requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the craftsman and the engineer at the end of the spectrum closest to the engineer.

82 Engineering technology is oriented less toward theory and more toward practical applications. The associate of science degree prepares the student to be an engineering technician, and the baccalaureate degree program prepares the student to be an engineering technologist. Both the four and two year programs are designed to prepare the student to work in meaningful jobs.

Graduates from other institutions with associate degrees in electrical-electronics or civil-construction engineering technology are eligible for transfer into the four year programs in engineering technology.

ENGINEERING (TRANSFER)

Engineering has been defined as the profession in which a knowledge of the mathematical and natural sciences gained by study, experience, and practice is applied with judgement to develop ways to utilize, economically, the material and forces of nature for the benefit of mankind.

The engineering transfer program is closely coordinated with the University of Missouri-Columbia and the University of Missouri-Rolla. Professional engineering

is very mathematical and depends heavily on a rigorous study of the natural and engineering sciences. More and more often the professional engineer finds that a master of science degree is necessary to do his work.

The sample program shown in this section is intended only as an example. The exact program followed will depend on the specialized area (civil, architecture, mechanical, electrical, etc.) and the engineering school to which transfer is planned. Also, many students are not prepared for calculus their first semester and special programs can be arranged. Therefore, an advisor in the Department of Engineering Technology will set up a suitable program for each pre-engineering or pre-architecture student.

FOUR YEAR DEGREE REQUIREMENTS

All four year graduates are required to take the exam given by the Institute for the Certification of Engineering Technicians, and will not be required to take the Graduate Record Exam.

For the Bachelor of Science in Technology Degree with a Major in:

CONSTRUCTION ENGINEERING TECHNOLOGY:

EGT 100, 103, 104, 154, 202, 204, 250, 258, 356, 456; CET 150, 206, 252, 304, 308, 354, 358, 406, 408, 458; MAT 105, 106, 204; CSC 188; PHY 110; ESC 204 or BIO 101; 3 hours free electives and 31 additional hours of general education.

ELECTRONIC ENGINEERING TECHNOLOGY:

EGT 100, 103, 104, 240, 250, 380, 456; EET 220, 230, 270, 300, 340, 350, 360, 370, 420, 430, 460, 480, 2nd class FCC License, MAT 105, 106, 204; CSC 188; PHY 110, 111; CHE 101; 5 hours free electives; 6 hours approved technical electives; and 31 additional hours of general education.

TWO YEAR DEGREE REQUIREMENTS

For the Associate of Science Degree with a Major in:

ENGINEERING, COMMON AND GENERAL TECHNOLOGY

EGT 100 Introduction to Engineering and Technology (1) i, ii

The occupational spectrum of the technical world of work is studied emphasizing the role of the engineering technician, the engineering technologist and the professional engineer. Although the course emphasizes the work done by these practitioners, some orientation is given to the kind of education required and what MWSC can provide. Lectures, slides, films, and field trips. One hour lecture. Open to all majors.

EGT 103 Electrical Systems (3) i

The student is exposed to electrical and electronic terminology including component names, electrical units, instrumentation and devices. Component characteristics, electrical measurements, electrical circuits and the application of electricity to other areas are also studied. Emphasis is on power generation and distribution, introductory electrical code. A laboratory section is provided to reinforce the theory as well as provide a practical hands-on approach to gain the student's interest. Two hours lecture, three hours lab.

Prerequisite: MAT 100 or consent of instructor.

EGT 104 Engineering Graphics I (3) i, ii

An introduction to the fundamentals of drawing, drafting room practices and technical communication through graphics. Technique is developed through the graphical solution of many current, practical problems in the engineering and technical areas. Two hours lecture, four hours lab.

EGT 154 Engineering Graphics II (3) ii

A continuation of EGT 104, but with an extension of graphical problem solution in three dimensional space. Problem solving techniques are developed through the solution of numerous in-class, practical problems in the engineering and technology areas. Two hours lecture, four hours lab.

Prerequisite: EGT 104.

CONSTRUCTION ENGINEERING TECHNOLOGY:

EGT 100, 104, 154, 202, 204, 250, 258; CET 150, 206, 256, 304, 354; MAT 105, 106, 204; PHY 110; 2 hours free electives and 14 additional hours of general education.

ELECTRONIC ENGINEERING TECHNOLOGY:

EGT 100, 103, 104, 240; EET 210, 220, 230, 270, 300, 340; MAT 105, 106, 204; PHY 110; 3 hours free electives and 14 hours of general education.

EGT 202 Surveying I (3) i

An introduction to the basic principles of plane surveying with applications to engineering and construction problems. Laboratory periods will be utilized for in-the-field application of introductory surveying techniques. Two hours lecture, three hours lab.

Prerequisite: MAT 105, 106.

EGT 204 Architectural Graphics I (3) i

Introduction to architectural graphics with an emphasis on residential type dwellings. Topics include lettering, shades-shadows, free hand sketching, planning and working drawings. Emphasis on technique and methodology. Two hours lecture, four hours lab.

Prerequisite: EGT 104 or consent of instructor.

EGT 230 Mechanics of Materials (3) on demand

The concept of stress and strain at a point; geometric interpretation of stress and strain; axial, shear, bending and torsional stresses; deflections; introduction to indeterminate structures; elementary column theory. Three hours lecture.

Prerequisite: EGT 258.

EGT 235 Materials Testing Lab II (1) on demand

Includes compression, tension, shear, and flexure tests of steel, wood, plastics, and concrete. Three hours lab.

Prerequisite: Concurrent with EGT 230.

EGT 240 Electrical Circuits (3) ii

Circuit analysis provides a mathematical approach for solving the current flows and voltages in both A.C. and D.C. circuits. Methods used include mesh analysis, nodal analysis, superposition, voltage and current divider rules, Thevenin's Theorem, Norton's Theorem, and Millman's Theorem. R-C and R-L circuits are also analyzed for transient conditions. Whenever possible practical applications are used for illustrations. The computer is used to show the labor saving techniques that are possible for electronic calculations. Two hours lecture, three hours lab.

Prerequisite: EGT 103, MAT 105, 106.

EGT 250 Technical Report Writing (2) ii

The study of various types and forms of reports. Practical projects in preparing reports of various lengths and degrees of

complexity. Oral presentation of report material. Emphasis on clear communication of technical ideas. Two hours lecture.
Prerequisite: ENG 104.

EGT 258 Statics and Strength of Materials (4) i
Topics of study include elements of statics in two and three dimensions; laws of equilibrium applied to structures and machines; simple stresses and strains; torsion, shear and bending; mechanical behavior of materials. Laboratory experience to supplement the theory. Three hours lecture, three hours lab.
Prerequisite: MAT 204.

EGT 300 Dynamics (3) on demand
Motion of a particle; kinetics of rigid bodies; work and energy; impulse and momentum; impact. Three hours lecture.
Prerequisite: EGT 258.

EGT 340 Thermodynamics (3) ii
Fluid properties, work and heat, first law, second law, entropy, applications to vapor and ideal gas processes. Three hours lecture.
Prerequisite: PHY 210 or consent of instructor.

EGT 356 Fluids and Hydraulics (3) ii
An introduction to fluid mechanics including fluid statics and elementary fluid dynamics. Typical topics of study include energy equations of steady flow, steady flow of incompressible fluids in pipes, and open channel flow. Three hours lecture.
Prerequisite: MAT 204, PHY 110.

84 EGT 375 Applied Hydraulics and Pneumatics (3) on demand
Provides the student with a familiarity of industrial hydraulic and pneumatic components and circuits. Identification, functions, and interchangeability of components are areas emphasized in conjunction with drawing schematics, building circuits from schematics, building circuits for specific purposes, and tracing industrial circuits. Two hours lecture, three hours lab.
Prerequisite: EGT 240.

EGT 380 Refrigeration and Air Conditioning (3) i
Principles of Refrigeration and Air Conditioning. Study of heat loads and assigning of equipment for specific applications. Electrical circuits and motors. Intensive coverage of mechanical refrigeration systems and service. Two hours lecture, three hours lab.
Prerequisite: EET 220 or consent of instructor.

EGT 390 Technological Projects (1-3) i, ii, iii
This course is intended for the advanced student who has a project which would add to his educational experience. Approval by the department chairman is required at least two weeks before the end of the previous term.

EGT 456 Electrical Systems of Buildings (3) ii
A more detailed study of the electrical and lighting systems of buildings. Design, code requirements and personnel safety are covered. Three hours lecture.
Prerequisite: EGT 103.

EGT 490 Technological Practices (1-3) i, ii, iii
This course is intended for the advanced student who can procure a job which adequately reinforces and extends his knowledge and skills in his chosen field. Approval by the department chairman is required at least two weeks before the end of the previous term.

CONSTRUCTION ENGINEERING TECHNOLOGY

CET 150 Blueprint Reading (1) ii
The course provides a short but intense coverage of various aspects of blueprint reading from the general and heavy construction field. Topics covered include heavy timber, structural steel and reinforced concrete. One hour lecture.
Prerequisite: EGT 104 or consent of instructor.

CET 206 Structural Drawing (2) ii
An introduction to the drawing and detailing of various structural elements used in construction. Topics include beams, columns, trusses, frames and slabs with emphasis on the various connections involved in each case. One hour lecture, three hours lab.
Prerequisite: EGT 154 or consent of instructor.

CET 252 Surveying II (3) ii
Intermediate and advanced surveying techniques and procedures with applications to engineering and construction problems. Topics include mapping, hydrography and photogrammetry. Laboratory periods will be utilized for in-the-field applications of the techniques. Two hours lecture, three hours lab.
Prerequisite: EGT 202.

CET 256 Bituminous, Concrete, & Soils (3) ii
A study of the properties and engineering applications of prime materials used in structural and roadway construction, including classification, basic quality control, and construction practices used with respect to asphalt, concrete, and soils. Two hours lecture, three hours lab.
Prerequisite: MAT 105, 106.

CET 304 Methods and Materials of Construction (3) i
An introduction to the methods and materials used in the various areas of the construction industry. Laboratory hours will be utilized for plant trips and field trips. Two hours lecture, three hours lab.
Prerequisite: EGT 204 or consent of instructor.

CET 306 Model Building (3) on demand
Presents the basic techniques and standard procedures of model building in the construction field. The student will construct a model of his choice. Two hours lecture, three hours lab.
Prerequisite: EGT 204.

CET 308 Structural Analysis (3) i
Introduction to various methods used in the elastic analysis of statically determinate beams, trusses, frames and arches. Introduction to statically indeterminate

structures. Three hours lecture.

Prerequisite: EGT 258.

CET 354 Construction Estimating (3) ii
An introduction to the field of construction estimating. Emphasis is placed on the accurate and systematic analysis of working drawings and specifications as they pertain to quantity takeoffs. Three hours lecture.

Prerequisite: CET 304.

CET 358 Structural Steel Design (4) ii
An introduction to elementary structural steel design. The design of individual members and their connections as dictated by various specifications (AISC, AASHO, etc.) is stressed. The laboratory period will include an introduction to the use of the computer in the area of structural analysis. Three hours lecture, three hours lab.

Prerequisite: CET 308.

CET 406 Mechanical Systems of Buildings (3) i
An introduction to the mechanical systems of buildings. Principles of water supply, sanitation systems, plumbing, heating and air conditioning are studied. Three hours lecture.

Prerequisite: EGT 356.

CET 408 Reinforced Concrete Design (4) i
An introduction to the design of reinforced concrete elements and structures. Topics include beams, columns, slabs and footings. The designs are based on the current ACI Code provisions for elastic and ultimate design. Three hours lecture, three hours lab.

Prerequisite: CET 308 or consent of instructor.

CET 410 Production Drafting (4) on demand
Drafting practices and terminology peculiar to working drawings. General mechanisms, cams, gears and power transmission. Emphasis is placed on developing speed and accuracy in the production of detail and working drawings for practical application. Two hours lecture, six hours lab.

Prerequisite: EGT 104.

CET 458 Soil Mechanics (4) ii
A study of the properties of soils with applications in civil engineering design and construction. Laboratory experiences to supplement theory. Three hours lecture, three hours lab.

Prerequisite: EGT 258.

ELECTRONIC ENGINEERING TECHNOLOGY

EET 210 Electronic Design and Fabrication (3) ii
The student selects a construction project subject to the approval of the instructor. Only routine design or re-design is expected with the emphasis on fabrication. Two hours lecture, three hours lab.

Prerequisite: At least ten semester hours of electronics.

EET 220 Instruments & Measurements (3) i
An in-depth study is made of the electronic circuitry and usage of the equipment for circuit evaluation, maintenance, and repairs in most electronics facilities.

Equipment studied includes: oscilloscopes, signal sources, meters (digital and analog), bridges, power supplies, digital frequency counters, and special purpose instruments. There is also some discussion of calibration requirements and techniques. The student also gives a demonstration of some electronic test instruments. Two hours lecture, three hours lab.

Prerequisite: EET 230, EGT 240, prefer completion of or concurrent EET 270.

EET 230 Introduction to Electronics (3) ii
The theory of operation of various solid state devices are studied: diodes, transistors, FET's, SCR's and monolithic integrated circuits. The student performs laboratory training sessions in which he evaluates many of the solid state devices. Two hours lecture and three hours lab.

Prerequisite: EGT 103, concurrent EGT 240 preferred.

EET 270 Electronics (4) i
This course provides the student with exposure to complete electronic circuits, including: rectifiers, regulators, SCR controls, amplifiers using transistors and FET's, oscillators, waveshaping circuits, clippers, limiters, and basic logic. The laboratory section consists of the following experiments: power supplies, filters, regulators, SCR controls, transistor characteristics, FET characteristics, push-pull amplifiers, oscillators, amplifiers, and logic gates. Three hours lecture, three hours lab.

Prerequisite: EET 230.

EET 300 Digital Electronics (4) ii
Number systems, computer codes, fundamentals of combinational logic circuits, sequential logic circuits, and special topics. Three hours lecture, three hours lab.

Prerequisite: EET 270 or consent of instructor.

EET 340 Communication Systems (4) ii
Analysis of various types of circuits used in equipment such as: AM and FM receivers and transmitters, TV receivers and transmitters, and microwave equipment. Antennas and transmission lines are also studied. Three hours lecture, three hours lab.

Prerequisite: EET 270.

EET 350 Advanced Communications Systems (3) ii (even numbered years)
A study of communications theory emphasizing the relationship of information transmission with band width and noise. A further study of transmission line theory, electromagnetic fields and wave guides. Three hours lecture.

Prerequisite: EET 340, EET 360, EET 370, MAT 204.

EET 360 Network Analysis (3) i
Advanced study of steady state network analysis, and transients by classical and Laplace methods with applications to special topics in the fields of power and electronics. Three hours lecture.

Prerequisite: EGT 240, MAT 204.

EET 370 Microwave Systems (3) i (odd numbered years)
VHF and UHF components, circuits and measurement techniques; distributed ele-

ments, wageguides, microwave links, radar and similar systems. Two hours lecture, three hours lab.

Prerequisite: EET 340.

EET 420 Control Systems (3) ii (odd numbered years)

The application of electronic control circuits to industrial needs. This includes control of manufacturing processes, measurement and counting of components and servo control. The laboratory section consists of experiments which support the theory presented in the lectures. Two hours lecture, three hours lab.

Prerequisite: EET 300.

EET 430 Advanced Electronics (4) i

An advanced treatment of discrete and integrated circuit electronics. Small signal, large signal and digital circuit topics are extended beyond the level of EET 270 and EET 300. Three hours lecture, three hours lab.

Prerequisite: EET 270, EET 300.

EET 460 Rotating Machinery (4) i (even numbered years)

This course provides instruction in the construction, theory of operation, and application of the following: various types of A.C. and D.C. motors and generators, synchros, and servo systems, and motor controllers. Also covered are mathematical computations dealing with motor efficiency, power requirements, horsepower, torque, and power factor correction. The laboratory consists of working with various types of A.C. and D.C. motors and generators to observe the actual performance as compared to the theoretical performance. Three hours lecture, three hours lab.

Prerequisite: EGT 103, EGT 240, prefer EGT 456.

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EET 480 Design & Fabrication (3) ii

With the instructors approval, the senior student selects an electronic system or sub-system that he would like to design. The student draws on his basic electronic background to begin his task. He will have to build a functional prototype to demonstrate his design concept. The system design is not a trial and error process since a written paper is required which supports the project. The paper will require the student to develop some research techniques and an ability to document his sources. Two hours lecture, three hours lab.

Prerequisites: thirty hours of electrical courses.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN
TECHNOLOGY DEGREE**

**MAJOR IN
CONSTRUCTION ENGINEERING TECHNOLOGY**

Freshman Year

Fall Semester

EGT 104	Engineering Graphics I	3
EGT 100	Introduction to Engineering & Technology	1
	Humanities Elective	3

MAT 105-6	College Algebra, Trigonometry	5
ENG 104	Composition and Thetoric I	3
PED 101	P.E. Concepts	1

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Spring Semester

PHY 110	College Physics	5
CET 150	Blue Prints	1
EGT 154	Engineering Graphics II	3
	P.E. Activity	1
MAT 204	Applied Calculus	5

15

Sophomore Year

Fall Semester

EGT 204	Architectural Graphics	3
EGT 202	Surveying I	3
EGT 103	Electrical Systems	3
EGT 258	Statics and Strength of Materials	4
	Social Science Elective	3

16

Spring Semester

CET 252	Surveying II	3
CET 206	Structural Drawing	2
EGT 250	Technical Report Writing	2
SPH	Speech (104, 105, or 106)	3
	*Approved Technical Elective	3
	PE Activities	2

15

Junior Year

Fall Semester

CET 308	Structural Analysis	3
CSC 188	Fortran IV Programming	3
CET 304	Methods & Materials of Construction	3
	*Approved Technical Elective	3
	General Studies IV elective	4 or 5

16 or 17

Spring Semester

CET 358	Structural Steel Design	4
EGT 356	Fluids & Hydraulics	3
CET 354	Construction Estimating	3
ENG 108	Composition and Rhetoric II	3
	General Studies III Elective	3

16

Senior Year

Fall Semester

CET 408	Concrete Design	4
CET 406	Mechanical Systems of Building	3
	Economics (Elective)	3
	*Approved Technical Elective	3
	General Studies III Elective	3

16

Spring Semester

CET 458	Soil Mechanics.....	4
EGT 456	Electrical Systems of Buildings.....	3
	*Approved Technical Elective.....	3
	General Studies II Elective.....	3
	Free Elective.....	3
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*See suggested CET option list for management, art, computer science, electronics, geology and special.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN
TECHNOLOGY DEGREE
MAJOR IN ELECTRONIC
ENGINEERING TECHNOLOGY**

Freshman Year

Fall Semester

EGT 103	Electrical Systems.....	3
EGT 104	Engineering Graphics I.....	3
EGT 100	Introduction to Engineering & Technology.....	1
MAT 105-6	College Algebra, Trigonometry.....	5
PED 101	P.E. Concepts.....	1
ENG 104	Composition and Rhetoric I.....	3
		<hr/>
		16

Spring Semester

EGT 240	Electrical Circuits.....	3
EET 230	Introduction to Electronics.....	3
MAT 204	Applied Calculus.....	5
PHY 110	College Physics.....	5
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		16

Sophomore Year

Fall Semester

CSC 188	Fortran Programming.....	3
EET 270	Electronics.....	4
EET 220	Instruments & Measurements.....	3
CHE 101	Introductory Chemistry.....	5
	P.E. Activities.....	1
		<hr/>
		16

Spring Semester

EET 340	Communication Systems.....	4
EET 300	Digital Electronics.....	4
EGT 250	Technical Report Writing.....	2
SPH	104, 105, or 106.....	3
	General Studies II Elective.....	3
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		16

Junior Year

Fall Semester

ECO 260	Economics (Elective).....	3
EET 360	Network Analysis.....	3
EET 370	Microwave Systems (odd numbered	
		<hr/>
		15

or	years).....	3
EET 460	Rotating Machinery (even numbered	
	years).....	4
	Approved Technical Elective.....	3
	General Studies III Elective.....	3
	P.E. Activities.....	1
		<hr/>
		16 or 17

Spring Semester

EET 350	Advanced Communications Systems	
or	(even numbered years).....	3
EET 420	Control Systems (odd numbered years).....	3
EGT 456	Electrical Systems of Buildings.....	3
PHY 111	College Physics II.....	3
ENG 108	Composition and Rhetoric II.....	3
	General Studies III Elective.....	3
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		15

Senior Year

Fall Semester

EET 430	Advanced Electronics.....	4
	Approved Technical Elective.....	3
	General Studies III Elective.....	3
EET 460	Rotating Machinery (even numbered	
or	years).....	4
EET 370	Microwave Systems (odd numbered	
	years).....	3
	Free Elective.....	3
		<hr/>
		16 or 17

Spring Semester

EET 480	Design & Fabrication.....	3
EET 420	Control Systems	
or	(odd numbered years).....	3
EET 350	Advanced Communications Systems	
	(even numbered years).....	3
EGT 380	Refrig. & Air Conditioning.....	3
	General Studies II Elective.....	3
	Free Elective.....	2
	P.E. Activities.....	1
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		15

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
MAJOR IN CONSTRUCTION
ENGINEERING TECHNOLOGY**

Freshman Year

Fall Semester

EGT 104	Engineering Graphics I.....	3
EGT 100	Introduction to Engineering & Technology.....	1
	General Studies III Elective.....	3
MAT 105-6	College Algebra, Trigonometry.....	5
ENG 104	Composition and Rhetoric I.....	3
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		15

Spring Semester

PHY 110	College Physics	5
CET 150	Blueprint Reading.....	1
EGT 154	Engineering Graphics II.....	3
PED 101	P.E. Concepts.....	1
MAT 204	Applied Calculus	5
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		15

Sophomore Year

Fall Semester

EGT 204	Architectural Graphics	3
EGT 202	Surveying I.....	3
CET 304	Methods & Materials of Construction	3
EGT 258	Statics and Strength of Materials	4
	General Studies II Elective	3
		—
		16

Spring Semester

CET 354	Construction Estimating.....	3
CET 206	Structural Drawing.....	2
EGT 250	Tech. Report Writing	2
SPH	104, 105, or 106	3
	P.E. Activity	1
CET 256	Bituminous, Concrete & Soils.....	3
	Free Elective	2
		—
		16

**SAMPLE PROGRAM
ASSOCIATE OF SCIENCE DEGREE
MAJOR IN
ELECTRONIC ENGINEERING TECHNOLOGY**

Freshman Year

Fall Semester

EGT 100	Introduction to Engineering & Technology.....	1
EGT 103	Electrical Systems.....	3
EGT 104	Graphics I.....	3
MAT 105-6	College Algebra, Trigonometry.....	5
PED 101	P.E. Concepts.....	1
ENG 104	Composition and Rhetoric I.....	3
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		16

Spring Semester

EET 230	Introduction to Electronics.....	3
EGT 240	Electrical Circuits.....	3
MAT 204	Applied Calculus	5
PHY 110	College Physics	5
		—
		16

Sophomore Year

Fall Semester

EET 220	Instruments & Measurements	3
EET 270	Electronics	4
	Approved Elective	3
SPH	104, 105, or 106	3
	General Studies III Elective	3
		—
		16

Spring Semester

EET 210	Electronic Design & Fabrication	3
EET 340	Communication Systems	4
EET 300	Digital Electronics	4
	General Studies II Elective	3
	P.E. Activity	1
		—
		15

**SAMPLE PROGRAM
PRE-ENGINEERING TRANSFER PROGRAM**

Freshman Year

Fall Semester

ENG 104	Composition and Rhetoric I.....	3
EGT 104	Engineering Graphics I.....	3
MAT 107	Calculus with Analytic Geometry I.....	5
CHE 111	General Chemistry I.....	5
		—
		16

Spring Semester

EGT 240	Electrical Circuits.....	3
PHY 210	University Physics I.....	5
MAT 108	Calculus with Analytic Geometry II.....	5
ECO 260	Principles of Economics	3
		—
		16

Sophomore Year

Fall Semester

MAT 209	Calculus with Analytic Geometry III.....	5
PHY 211	University Physics II.....	4
PSC 101	American National Government	3
CSC 188	Fortran IV Programming.....	3
		—
		15

Spring Semester

MAT 312	Differential Equations.....	3
EGT 258	Statics and Strengths of Materials.....	4
EGT 340	Thermodynamics	3
	General Studies III Elective.....	3
EGT 356	Fluids and Hydraulics	3
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		16

department of

**HEALTH, PHYSICAL EDUCATION, AND
RECREATION**

Dr. C. Erickson — chairman	
J. Adcox	R. Hicklin
Dr. D. Deaton	V. Keegstra
C. Faust	Dr. D. Laudie
G. Filbert	J. Long
J. Grechus	D. Minnis
B. Greene	L. Shear
G. Hazelrigg	Dr. J. Terry

Whether programming intramural competition, offering a planned sequence of exercises and sports activities to help students develop strong active bodies, or working with students majors in physical education or leisure management, the Department of Health, Physical Education, and Recreation is interested in assisting all students to become healthy and productive members of society.

Every student at Missouri Western State College, as a part of the general education requirement, must take a course in "Concepts of Physical Activity" from

which he or she becomes acquainted with basic knowledges, understandings and values as they affect the student physiologically, psychologically, sociologically, and emotionally. Each student, based on self evaluation and guidance by the instructor during the concepts course, should take activity courses which will assist in areas which he/she has found personal deficiency.

These courses are of the physical conditioning, aquatics, sport, dance, combative, self-testing, gymnastics, adaptive, recreational and adventure types.

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Adaptive Activities may be repeated as often as needed for students with handicaps which restrict them from the regular activity program. Repeats in this course will satisfy General Education activity requirements.

Intercollegiate Sports I and II are offered for intercollegiate team members only. These courses may be repeated up to four times each. They count as electives but will not satisfy the General Education Physical Education activity requirements.

The department offers a Bachelor of Science in Education degree with an all level (elementary, secondary) major in health and physical education. Majors in this department must meet the requirements of general education, teacher education, and health and physical education. Students who desire a major in this department encounter the various strategies of successful team coaching, various techniques of planning, teaching, and evaluating physical education programs as well

as a scientific background of the discipline.

The department offers a Bachelor of Science degree with a major in leisure management. It offers a core of required courses as well as related course work in an area of professional emphasis as determined by the individual student's interest and upon approval of this advisor. It also offers a minor in leisure management.

Driver Education and Athletic Coaching certification courses are also offered by this department for any education majors who desire teaching certification in these areas.

**MAJOR IN HEALTH AND PHYSICAL
EDUCATION (57 Hours)**

Courses in Physical Education must total 52 hours and 5 hours in Biology. The specific courses required are BIO 250 and PE courses 148, 175, 176, 185, 191, 192, 201, 301, 302, 303, 304, 310, 373, 382, 385, 393; three semester hours from 311, 312, 313,

314, 315; four semester hours from 390, 391, 392; 13 semester hours from specific physical education activities as determined by the student's major advisor.

All Physical Education majors must pass a swimming proficiency test or show evidence of successfully passing a swimming course prior to being admitted into student teaching. The test consists of the following items:

Jump feet first into deep water and level off. Swim fifteen yards across the pool using the crawl stroke.

Change directions without touching the edge and swim back using the elementary back stroke.

BACHELOR OF SCIENCE DEGREE — MAJOR IN LEISURE MANAGEMENT (62 HOURS)

Individuals seeking a Bachelor of Science degree with a major in leisure management are required to take the following: LMA 220, 225, 230, 320, 323, 330, 420, 424, 430; PED 201, 395; and 30 hours within the professional emphasis area of choice (community, outdoor, private, commercial, special populations, or youth agency).

LEISURE MANAGEMENT — MINOR (22 HOURS)

To be considered a leisure management minor, a student must successfully com-

plete the following courses: LMA 220, 225, 230, 243, 320, 322, 323, 326, 424.

CERTIFICATION IN ATHLETIC COACHING (18 HOURS)

Majors in any department who receive a degree in Education may also receive Athletic Coaching Certification. The following are the specific courses required: PED 201, 304, 310, 373, and 385; three semester hours from 311, 312, 313, 314, and four semester hours from 390, 391, 392.

CERTIFICATION IN DRIVER EDUCATION (21 HOURS)

Majors in any department who receive a degree in Education may also receive certification in Driver Education. Courses must total 3 hours in Safety Education, 6 hours in Driver Education, 2 hours in First Aid and 4 hours in Psychology in Secondary Teaching. The following specific courses are required: PED 154, PED 201, PED 254, PED 354 and SED 304. Six hours of electives are to be taken from the following: LAW 140, LAW 160, SED 331, PED 385, LAW 100, PSY 325 and PSY 405.

FACILITY FEE

A facility fee of \$3.00 is required for all courses in this Department which entitles the student to utilization of the locker and shower rooms.

PHYSICAL EDUCATION THEORY:

- PED 101 Concepts of Physical Activity (1) i, ii, iii**
To acquaint students with basic knowledge, understandings and values of physical activity as it relates to optimal healthful living. (1 hour lecture and 1 hour lab).
- PED 191 Foundation of Physical Education (2) i, ii**
Meaning of physical education, opportunities in the field, and evaluation of aptitudes and abilities. Recommended for freshmen. (Two hours lecture).
- PED 192 Personal and Community Health (2) i, ii**
Personal health concerns, family and community health responsibilities. (Two hours lecture).
- PED 201 First Aid (2) i, ii, iii**
General emergency care, major disaster, civil defense; Red Cross standard, and instructor for standard certification included. (One hour lecture, two hours lab).
- PED 300 Elementary School Health Education (2) i, ii**
Emphasis on content, methods, and materials at the elementary grade levels. De-

signed for the elementary school classroom teacher. (Two hours lecture).

- PED 301 Health Teaching in the Schools (2) i**
Emphasis on content, methods, and materials in health education at all levels (K through 12). (Two hours lecture.)
Prerequisite: PED 192.
- PED 302 Methods of Physical Education (2) i, ii**
Methods and materials of teaching physical education in the secondary schools. Students are required to assist in the physical education activity program. (One hour lecture, two hours lab.)
Prerequisite: PED 101 plus 8 hours of Physical Education activities.
- PED 303 Kinesiology (3) i**
The analysis of movement from a study of the anatomical structure and the mechanical principles of the human body. (Three hours lecture.)
Prerequisite: BIO 250.
- PED 304 Physiology of Exercise (3) i**
Basic physiology applied to physical education and the training and conditioning of athletes. (Two hours lecture, two hours

lab.)

Prerequisite: BIO 250.

PED 310 Principles of Coaching (2) i, ii

A course covering the various principles of coaching in today's public school system.

Prerequisite: Junior classification.

PED 311 Coaching of Football (1) ii

Theory and fundamentals of football dealing with team selection, organization, and control as well as fundamentals and strategies of the game. (One hour lecture, one hour lab.)

Prerequisite: Sophomore classification.

PED 312 Coaching of Basketball (1) i

Theory and fundamentals of basketball dealing with team selection, organization, and control as well as fundamentals and strategies of the game. (One hour lecture, one hour lab.)

Prerequisite: Sophomore classification.

PED 313 Coaching of Baseball and Softball (1) i

Theory and fundamentals of baseball and softball dealing with team selection, organization, and control as well as fundamentals and strategies of the game. (One hour lecture, one hour lab.)

Prerequisite: Sophomore classification.

PED 314 Coaching of Track and Field (1) ii

Theory and fundamentals of track and field dealing with team selection, organization, and control as well as fundamentals and strategies of the sport. (1 hour lecture, 1 hour lab.)

Prerequisite: Sophomore classification.

PED 315 Coaching of Volleyball and Tennis (1) i

Theory and fundamentals of volleyball and tennis dealing with team selection, organization, and control as well as fundamentals and strategies of the game. (1 hour lecture, 1 hour lab.)

Prerequisite: Sophomore classification.

PED 373 Organization and Administration of Physical Education and Athletics (2) i, ii

Programming, staff selection, principles of administration, public relations, budget making, purchase and care of equipment, facilities and organization of physical education and athletic programs. (Two hours lecture).

PED 381 Outdoor Education (2) On Demand

Development of competencies in teaching in an outdoor learning environment. (Two hours lecture.)

PED 382 Elementary School Physical Education (3) i, ii, iii

Rhythmic activities, movement education, fundamental skills, and sports and games for the elementary school physical education program. (Two hours lecture, two hours lab.)

Prerequisite: Sophomore classification.

PED 383 Adaptive Physical Education (2) ii

Theory and methods of programming activities for handicapped students. Recognition and prevention of, and practical experience with structural deviations from normal body mechanics. (Two hours lecture.)

PED 385 Athletic Training (2) i, ii

Prevention and care of common athletic injuries; protective equipment, training methods. (Two hours lecture.)

Prerequisite: Biology 250.

PED 390 Sports Officiating in Football and Wrestling (2) i

Rules and techniques used in the officiating of football and wrestling. Officiating in the intramural program is required. (One hour lecture, two hours lab.)

PED 391 Sports Officiating in Baseball, Softball, and Basketball (2) ii

Rules and techniques used in the officiating of baseball, softball, and basketball. Officiating in the intramural program is required. (One hour lecture, two hours lab.)

PED 392 Sports Officiating in Field Sports and Volleyball (2) i

Rules and techniques used in officiating field sports and volleyball. Officiating in the intramural program is required. (One hour lecture, two hours lab.)

PED 393 Measurement in Physical Education (3) i, ii

Methods in evaluation of the product and process; special emphasis on physical fitness, motor ability, posture, and specific sport skills. (Three hours lecture).

PED 395 Intramural Management (2) i

Organization and administration of intramural and extramural activities. Assistance in the intramural program is required. (1 hour lecture, 2 hours lab.)

PED 450 Independent Study in Physical Education (1-5 hours) i, ii, iii

A research-oriented involvement intended to extend the competencies of the student in a particular area of education.

Prerequisite: Approval of the Department Chairman.

PED 465 Theory and Methods of Teaching Rhythms (2) Upon Demand

Methods and procedures for instruction of folk, square, social, modern and tap dancing. (One hour lecture and two hours lab.)

Prerequisite: PED 148 and 153.

PED 480 Practicum in Physical Education (2) i, ii, iii

Individualized in-depth study of a subject in which the student is particularly interested.

Prerequisite: Senior classification or approval of the Department Chairman.

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DRIVER EDUCATION AND SAFETY THEORY

PED 154 Principles and Practice of Safety (3) ii, iii

Safety education must meet the challenges of rapid social changes. Safety education is directed toward all persons with leadership role in working with people, administrative responsibilities, teachers and school administrators responsibility of protecting children during school activities.

Course directed at preparing students to assume responsibility for safety education and accident prevention programming in school, industry, and/or public service. (Three hours lecture.)

PED 254 Developmental Traffic Education (3) i, iii
Introductory course to prepare teachers of Driver Education. Classroom instruction representing a broad approach to the teaching of drivers, both in knowledge and skills essential to successful driving in the teaching of good citizenship on streets and highways. Classroom instruction, laboratory experiences and driving skills are involved.

PED 354 Advanced Traffic Education (3) ii, iii
Advanced course to prepare teachers of Driver Education. Actual experience in teaching beginning drivers in both the classroom and the car. (Two [2] hours lecture, two [2] hours lab arranged)
Prerequisite: PED 254.

LEISURE MANAGEMENT

LMA 220 Introduction to Recreation (3) i, ii
History and foundations of organized recreation including objectives, responsibilities, scope, economic, and social aspects; tours of specific recreation agencies. (Two hours lecture, two hours lab.)

LMA 225 Philosophy of Leisure (2) ii
Analysis of fundamental philosophical concepts as they relate to principles and practices of leisure patterns in modern society. (Two hours lecture.)

LMA 230 Recreation; Field Experience I (2) i, ii, iii
Practical, exploratory view of three recreation agencies from an on-the-job perspective. (One hour lecture, five hours lab.)
Prerequisite: LMA 220.

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LMA 243 Outdoor Living (3) ii
To develop knowledge and basic skills in Outdoor Recreation Activities. Emphasis on camping, outdoor cookery, backpacking, conservation, rock climbing, and orienteering. It includes weekend outings. (Two hours lecture, two hours lab.)

LMA 320 Science of Leisure Management (2) ii
Social science research of principles, practices, and ethics of management techniques as they relate to leisure organizations. (Two hours lecture.)
Prerequisite: LMA 220.

LMA 322 Social Recreation (2) i
The principles and techniques of administering and conducting social events. Emphasis on planning, discussion, demonstration, and participation. (Two hours lecture.)

LMA 323 Foundations for Recreation Programs (3) i
Basic principles and practices in planning recreation programs in a variety of settings; additionally, practical application of the planning principles. (Three hours lecture.)
Prerequisite: LMA 220, 225.

LMA 326 Recreational Arts, Crafts, and Music (2) i
A survey of various arts, craft, and music involved in recreation settings. Students must furnish their own supplies. (One hour lecture, two hours lab.)

LMA 330 Recreation; Field Experience II (3) i, ii, iii
Supervised leadership assignment in one leisure agency leading to a deeper conceptual view of intended professional aspirations. (One hour lecture, eight hours

lab.)
Prerequisite: LMA 220, 230.

LMA 420 Seminar in Recreation (1) i
Practical preparation for profession including job finding skills, interview techniques, values of recreation associations, and visits from field professionals. (One hour lecture.)
Prerequisite: LMA 220, 225.

LMA 424 Organization and Administration of Leisure Agencies (3) ii
The internal operation of leisure organizations including staffing, finance, public relations, areas and facilities, decision making, and problem solving. (Three hours lecture.)
Prerequisites: LMA 220, 225, 323.

LMA 430 Recreation; Field Experience III (9) i, ii, iii
Full-time summer internship with mutually agreed upon leisure agency to develop and utilize skills learned in the classroom.
Prerequisites: LMA 220, 225, 230, 323, 330.

LMA 450 Independent Study in Leisure Management (1-5) i, ii, iii
Individual research investigation on selected topics or problems in the leisure field.
Prerequisite: Approval of the Department Chairman.

LMA 480 Practicum in Recreation (2) i, ii, iii
An individualized approach to acquire entry-level skills not acquired during curriculum course work. This course may be required by the advisor during a student's senior year.

ELECTIVE PHYSICAL EDUCATION ACTIVITIES

No activity course can be repeated for credit. (Exceptions: 110, 158, 159.) Elective Physical Education activities will be offered during semesters when staff and facilities are available.

Classes may be offered for women, men, or co-educational.

All sport activities are designed for the development of techniques, knowledges, appreciation, and skills used during one's lifetime for recreation and fitness.

PED 110 Adaptive Activities (1)
A program of activities adapted to the needs of the handicapped and physically restricted student. By permission of the coordinator of adaptive activities only.

PED 114 Beginning Tumbling and Trampoline (1)

PED 115 Beginning Apparatus Gymnastics (1)

PED 116 Beginning Bait and Fly Casting (1)

PED 117 Beginning Riflery and Trap Shooting (1)
Students must purchase their own shells.

PED 118 Beginning Bowling (1)
House fee required.

PED 119 Beginning Golf (1)
Students must furnish four new golf balls.

- PED 120 Beginning Tennis (1)**
Students must furnish one can of new tennis balls.
- PED 121 Beginning Badminton (1)**
Students must furnish three new shuttlecocks.
- PED 122 Beginning Orienteering — Map and Compass (1)**
- PED 123 Beginning Judo (1)**
Students must furnish Gi.
- PED 124 Beginning Survival and Primitive Living (1)**
- PED 125 Beginning Handball (1)**
Students must furnish their own glove.
- PED 126 Beginning Squash (1)**
- PED 127 Beginning Archery (1)**
Students must furnish matched set of six arrows.
- PED 128 Beginning Backpacking (1)**
- PED 129 Beginning Mountaineering (1)**
- PED 130 Beginning Swimming (1)**
Basic skills in swimming. Swim suit required.
Prerequisite: Non-swimmers only.
- PED 132 Intermediate Swimming (1)**
Development of swimming strokes. Swim suit required.
Prerequisite: Ability to swim.
- PED 133 Advanced Swimming and Diving (1)**
Advanced swimming skills and diving as well as competitive swimming. Swim suit required.
Prerequisite: Above average ability to swim.
- PED 134 Life Saving (1)**
Life saving techniques as prescribed by American Red Cross Senior Life Saving Certification for those who qualify. Swim suit required.
Prerequisite: Above average ability to swim.
- PED 135 Skin and Scuba Diving (1)**
Techniques and safety for skin and scuba diving. Swim suit required. Special fee required.
Prerequisite: Above average ability to swim.
- PED 136 Recreational Water Sports (1)**
Water Polo, Water Basketball, and Water Volleyball, with some small craft activity. Swim suit required.
Prerequisite: Above average ability to swim.
- PED 137 Water Safety Instructor (1)**
Water safety techniques as prescribed by the American Red Cross. W.S.I. Certification for those who qualify. Swim suit required.
Prerequisite: Current Senior Life Saving Certification.
- PED 138 Beginning Sailing and Canoeing (1)**
Prerequisite: Above average ability to swim.
- PED 139 Beginning Skiing (1)**
Intersessions when facility and staff are available. Special fee required.
- PED 140 Beginning Ice Skating (1)**
Special fee required.
- PED 141 Beginning Karate (1)**
Students must furnish Gi.
- PED 144 Beginning Recreational Games (1)**
Shuffleboard, table tennis, horseshoes, croquet, and others.
- PED 146 Beginning Social Dance (1)**
- PED 148 Beginning Folk and Square Dance (1)**
- PED 153 Beginning Modern Dance (1)**
Students must furnish leotard.
- PED 156 Beginning Tap Dance (1)**
Students must furnish tap shoes.
- PED 158 Intercollegiate Sports I (1)**
Intercollegiate athletic team members who are on the men's football, men's basketball, or women's volleyball teams only. Will not satisfy general educational requirements in Physical Education. Must have permission of coach.
- PED 159 Intercollegiate Sports II (1)**
Intercollegiate athletic team members who are on the men's baseball, men's golf, men's tennis, women's tennis, women's basketball, and women's softball teams only. Will not satisfy general educational requirements in Physical Education. Must have permission of coach.
- PED 173 Beginning Softball (1)**
- PED 174 Beginning Field Hockey (1)**
- PED 175 Beginning Volleyball (1)**
- PED 176 Beginning Soccer and Speedball (1)**
- PED 177 Beginning Basketball and Flag Football (1)**
- PED 183 Beginning Wrestling (1)**
- PED 184 Beginning Body Dynamics (Figure Improvement) (1)**
- PED 185 Beginning Weight Training and Conditioning (1)**
- PED 186 Aerobics (1)**
- PED 187 Beginning Cycling (1)**
Students must furnish bicycle.
- PED 190 Special Activity (1)**
Special Activities to be offered when specific instructors and facilities are available.
- PED 215 Intermediate Apparatus Gymnastics (1)**
Prerequisite: PED 115 or permission of instructor.
- PED 218 Intermediate Bowling (1)**
Prerequisite: PED 118 or permission of instructor.
- PED 219 Intermediate Golf (1)**
Students must furnish four new golf balls.
Prerequisite: PED 119 or permission of instructor.
- PED 220 Intermediate Tennis (1)**
Students must furnish one can of new tennis balls.
Prerequisite: PED 120 or permission of instructor.
- PED 223 Intermediate Judo (1)**
Student must furnish Gi.
Prerequisite: PED 123 or permission of instructor.
- PED 253 Intermediate Modern Dance (1)**
Students must furnish leotards.
Prerequisite: PED 153 or permission of instructor.
- PED 275 Intermediate Volleyball (1)**
Prerequisite: PED 175 or permission of instructor.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN PHYSICAL EDUCATION**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
HIS 140, 150	History or	
PSC 101	Political Science.....	3
BIO 101	Biology.....	5
MAT 101	or higher.....	3
PED 191	Found. of Physical Education.....	2
PED 101	Concepts of Physical Activity.....	1
		—
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Spring Semester

ENG 108	English Composition.....	3
PED 192	Personal & Community Health.....	2
	General Studies II Elective.....	3
	General Studies III Elective.....	3
	General Studies IV Elective.....	4-5
	Physical Education Activities.....	1
		—
		16-17

Sophomore Year

Fall Semester

SPH	104, 105 or 106.....	3
PSY 101	General Psychology.....	3
BIO 250	Anatomy and Physiology.....	5
PED 201	First Aid.....	2
	Physical Education Activities.....	2
		—
		15

Spring Semester

PED 382	Elementary School Physical Education.....	3
	General Studies II Elective.....	3
	General Studies III Electives.....	6
	Physical Education Activities.....	4
		—
		16

Junior Year

Fall Semester

SED 202	Intro. to Secondary Ed.....	2
SED 203	Participation in Secondary Teaching I.....	1
SED 310	Principles of Coaching.....	2
PED 304	Physiology of Exercise.....	3
PED 302	Methods of Physical Education.....	2
	Coaching Courses.....	2
	Physical Education Activities.....	3
		—
		15

Spring Semester

PED 310	Health Teaching in the Schools.....	2
PED 303	Kinesiology.....	3
	Coaching Course.....	1
SED 303	Experience in Secondary Teaching II.....	3
SED 304	Psychology in Secondary Teaching.....	4
	Physical Education Activities.....	2
		—
		15

Senior Year

Fall Semester

PED 393	Measurements in Phys. Ed.....	3
PED 385	Athletic Training.....	2
	Physical Education Electives (Upper Division).....	4
	Free Electives.....	6
	Physical Education Activities.....	1
		—
		16

Spring Semester

SED 409	Student Teaching III (Secondary).....	9
SED 404	Foundations in Secondary Education.....	3
SED 407	Psych. & Ed. of the Except. Student.....	2
		—
		14

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN LEISURE MANAGEMENT**

Freshman Year

Fall Semester

HIS 150	History or	
PSC 101	Political Science.....	3
CSC 182	Intro. to Data Processing.....	3
LMA 220	Intro. to Recreation.....	3
PED 101	Concepts of Physical Activity.....	1
ENG 104	English Composition.....	3
	General Studies III Elective.....	3
		—
		16

Spring Semester

LMA 225	Philosophy of Leisure.....	2
LMA 243	Outdoor Living.....	3
PSY 101	Psychology.....	3
	General Studies III Elective.....	3
	Activity Class.....	1
ENG 108	English Composition.....	3
		—
		15

Sophomore Year

Fall Semester

LMA 322	Social Recreation	2
	Activity Class	1
PED 201	First Aid	2
LMA 230	Recreation; Field Experience I.....	2
	General Studies IV Elective.....	4-5
	General Studies III Elective.....	3
	—	
		14-15

Spring Semester

LMA 320	Science of Leisure Management.....	2
	Activity Class	1
	General Studies IV Elective.....	4-5
SOC 110	General Sociology	3
SPH 105	Business and Professional Speech	3
	Elective	3
	—	
		16-17

Junior Year

Fall Semester

LMA 326	Recreational Arts, Crafts, and Music	2
LMA 323	Foundations for Recreation Programs	3
	Professional Emphasis Electives	6
	Free Electives	3
	—	
		14

Spring Semester

LMA 330	Recreation; Field Experience II	3
	Professional Emphasis Electives	7
	Free Electives	4
	—	
		14

Senior Year

Fall Semester

LMA 420	Seminar in Recreation	1
PED 393	Intramural Management	2
	Professional Emphasis Electives	6
	Free Electives	5
	—	
		14

Spring Semester

LMA 424	Organization and Administration of Leisure Agencies	3
	Professional Emphasis Electives	7
	Free Electives	3-4
	—	
		13-14

Senior Year

Summer Semester

LMA 430	Recreation; Field Experience III	9
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MILITARY SCIENCE

Lt. Col. F. Flesher — chairman
 Major L. Snyder
 Captain R. Lovelace
 Captain R. Sauve
 MSG P. Adair
 SFC J. Crumbliss

The department of Military Science administers the Reserve Officer's Training Corps (ROTC) program to those students desiring to enroll in Army ROTC. The purpose of Army ROTC is to develop qualities of leadership and skills in college-trained men and women in order to provide the Army and the civilian community with well-rounded leaders. The Army ROTC program is designed to provide broad leadership education rather than to develop military specialists. All courses are open to any student regardless of whether or not they enroll in the ROTC program.

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The general military science curriculum at Missouri Western State College provides the cadet with the general leadership management and military skills needed to qualify for a commission in any of the

branches of the Army. The student is afforded the opportunity to apply this training during field training, conducted off campus. This curriculum alone does not lead to a degree, but is to be utilized in conjunction with another department granting a degree.

A commission as a Second Lieutenant in the United States Army Reserve is granted to the individual who completes either the Two-Year or Four-Year ROTC Program and obtains a baccalaureate degree from this college. Currently, a college graduate who is commissioned through ROTC is placed on active duty for either three months or three years depending on his desires and on needs of the service at the time of graduation. A contract guaranteeing the three-month program is available.

FOUR-YEAR ROTC PROGRAM: This course of study consists of MIL 100, 110, 200, 210, 300, 310, 400, 410. In addition, a student must attend a six-week advanced camp (MIL 350) at Fort Riley, Kansas, normally between junior and senior years. During this camp, the student receives pay of approximately \$500 plus travel expenses. A student incurs no service obligation for attendance in MIL 100, 110, 200, or 210. The Department Chairman may award placement credit on an individual for successful completion of selected courses in lieu of MIL 100, 110, and 200. Entrance to the advanced course is subject to the approval of the Department Chairman.

TWO-YEAR ROTC PROGRAM: This course of study is for students who were unable to enroll in ROTC during their first two academic years. This program substitutes a six-week basic camp for MIL 100, 110, 200, and 210. The remainder of the

course is the same as the four-year program. Pay for students while attending basic camp is approximately \$516 plus travel expenses.

PLACEMENT FOR VETERANS: Prior service personnel desiring a commission through ROTC may have the 100 to 200 level Military Science course waived and enter directly into the advanced course (last two years of Military Science). The monthly financial aid of \$100 does not affect other financial benefits available to veterans. Interested Veterans should contact the Director of Military Science for permission to enter the advanced course.

MONETARY ALLOWANCES: All ROTC students are furnished texts for their military science courses and uniforms for wear during leadership laboratory. Students enrolled in the last two years of military science receive \$100 per month, during the school year, not to exceed the

months per year. In addition, those cadets attending summer camps receive travel pay to and from the camp and monthly financial aid as previously described.

FINANCIAL ASSISTANCE:

Scholarship

One, two, three, and four-year scholarships are awarded each year to selected students who are enrolled or will enroll in the Army ROTC Program. The scholarships provide payment of all tuition fees, textbooks, and a monthly, tax-free payment of \$100 for the duration of the scholarship, not to exceed 10 months for each year of the scholarship.

Department of Military Science Scholarship. This scholarship has been established by the college and is to be given to

a deserving freshman or sophomore who is enrolled in the ROTC program as a cadet. One scholarship will be given in each of the fall and spring semesters based on availability of funds. The recipient will receive \$100 towards payment of registration fees. Further qualifications for receipt of this award are as follows: must have a minimum of 2.3 high school or college GPA; must not be in receipt of another scholarship from any other source. Application should be made to the scholarship committee.

Fee Waivers: Fee waiver scholarship. See Department Chairman.

MILITARY SCIENCE MINOR: A minor in Military Science will total 20 credit hours. The following specific courses are required: MIL 100, 110, 200, 210, 300, 310, 400, 410, and two hours of electives as approved by the Department Chairman.

MIL 010 Practicum In Leadership (0) i, ii, iii

Each semester that a student is enrolled in Military Science, he/she must enroll in MIL 010, Practicum in Leadership. This Course provides the student with the practical setting in which to learn and practice Leadership Techniques, Small Unit Tactics, Rappelling, Marksmanship, Orienteering, and Water Survival. It is an extension of other classroom instruction in the same areas.

MIL 100 Development of the Defense Establishment (1) i, ii, iii

An examination of the evolution of the United States Military Defense System and the citizen soldier concept to include the evolution of warfare and development of weapons.

MIL 110 The Defense Establishment in National Security (1) i, ii, iii

A study of the organization and functions of the defense establishment of the United States to include the interrelations between services under the Department of Defense and the relationship of the Department of Defense to constitutional civil authority.

MIL 120 Precision Military Drill (1) i, ii

Introduction to the conduct of military drill and ceremonies, individual, small unit, drill team and Color Guard drill, The Manual of Arms with infantry weapons; teaching and instructing techniques of military drill. Lecture/Laboratory four hours per week. May be repeated for credit with the approval of the Professor of Military Science.

MIL 200 American Military History (2) i, ii, iii

A general study and application of the development of the American Military System from colonial times to the present.

MIL 210 Map Reading and Small Unit Tactics (2) ii, iii

The study of map reading and analysis, offensive and defensive principles, small unit organization and tactics.

MIL 300 Leadership and Management I (3) i

An investigation into the study of organizational leadership; organizational and individual psychology in the military environment; application of academic theory to specific military management. Practical application of the military instruction methodology concludes the course.

Prerequisite: Basic course or permission of Department Chairman.

MIL 310 Fundamentals and Dynamics of the Military Team I (3) ii

The study of the principles and fundamentals of military operations, the decision making process, planning, communications and tactics of military units.

Prerequisite: ML 300 or permission of Department Chairman.

MIL 350 Practicum in Advanced Leadership Training (3) iii

A six week practical experience in field training environment to develop and demonstrate leadership capabilities in various situations.

Prerequisite: An advanced ROTC cadet and MIL 300 and MIL 310 or permission of the Department Chairman.

MIL 400 Fundamentals and Dynamics of the Military Team II (3) i

Discussion and application of the principles of military organization and management. Includes the comprehensive study of executive decision-making and communication; operation; training; logistics; intelligence; and personnel.

Prerequisite: MIL 310 or permission of Department Chairman.

MIL 410 Leadership and Management II (3) ii
Advanced study of leadership and management in examining the areas of administration at the company level and military justice. Also an inter-disciplinary seminar on the military implications of world change. Concludes with an overview of the obligations and responsibilities of an Officer.

Prerequisite: MIL 400 or permission of Department Chairman.

MIL 450 Independent Study in Military Science (1-5) i, ii, iii

Investigation of selected problems or topics on an individual or conference basis.
Prerequisite: Permission of the Department Chairman.

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department of PSYCHOLOGY

Dr. E. Shutts — chairman
J. Bargar
J. Ison

Dr. M. Johnson
P. Wann

The ancient adage "Know Thy Self," along with the admonition "Know Thy Fellowman," succinctly state the philosophy of the Psychology Department. Our Orientation is humanistic. Our objective is to provide a deeper and broader understanding of human nature.

The purpose of the psychology curriculum is to give the student a better understanding of himself and others, and to better prepare him to meet the complexi-

ties of life. Either the Bachelor of Arts or the Bachelor of Science degrees can be achieved with a major in psychology. Either degree, with a major in psychology, signifies that the student is prepared to pursue graduate study in psychology at the Master's or Doctorate level.

The department also serves other disciplines by offering courses which meet their needs.

BACHELOR OF ARTS OR BACHELOR OF SCIENCE

MAJOR IN PSYCHOLOGY

A minimum of 36 credit hours of Psychology is required. Required courses totaling 21 credit hours are: PSY 101, 200, 300, 301, 330, 401, 490. The additional 15 credit hours to meet the 36 credit hour requirement must consist of electives in Psychology.

Candidates for either degree must also comply with the appropriate baccalaureate degree program and meet all other requirements as outlined elsewhere in this catalog. (See 30 hours upper division requirement and general education requirements.)

MINOR OR EMPHASIS IN PSYCHOLOGY

A minimum of 22 credit hours in Psychology is required. Required courses totaling 16 credit hours are: PSY 101, 200, 300, 301, 330. The additional 6 credit hours to meet the 22 credit hour requirement must consist of electives in Psychology.

A COGNATE IN PSYCHOLOGY

Students in the Two plus Two program (explained elsewhere in this catalog) who elect psychology as a cognate field will obtain an advisor from the psychology department and may be asked to take up to 16 hours of required courses. A minimum of 24 credit hours in psychology is recommended for a cognate in psychology.

PSY 101 General Psychology (3) i, ii, iii
A general information course about psychology in everyday life, designed to correct misconceptions and to give the student a better understanding of himself and others. May be repeated once.

PSY 200 Intermediate Psychology (3) i, ii, iii
An introduction to scientific psychology with emphasis on methodology.
Prerequisite: PSY 101.

PSY 201 Applied Psychology (3) i
Considers the applications of psychology in everyday life.
Prerequisite: PSY 101, 200 or consent of instructor.

PSY 210 Mental Hygiene (3) i, ii
Considers principles and techniques for maintaining good mental health. The approach is practical rather than descriptive.
Prerequisite: PSY 101.

PSY 300 Psychological Measurements and Appraisals (3) i, (ii odd years).
Considers contemporary methods of inventorying individual differences, and the theoretical basis for criteria in constructing, standardizing, and using test instruments, with a brief historical introduction and critique of the misuse of psychological tests.
Prerequisite: PSY 101, 200.

- PSY 301 Experimental Psychology (4) i, ii**
Provides training in the techniques and methods of scientific psychology. Emphasis is on the construction of hypotheses, experimental design, data interpretation and style of reporting research. Three hours lecture and two hours lab.
Prerequisite: PSY 101, 200.
- PSY 304 Child Psychology (3) i, ii, iii**
The psychological growth of the child from conception to puberty, emphasizing the origins and principles of normal personality development.
Prerequisite: PSY 101, 200 or consent of instructor.
- PSY 309 Abnormal Psychology (3) i, ii**
A descriptive and explanatory consideration of abnormal behavior, with a survey of past and present theories, classifications, and therapies.
Prerequisite: PSY 101.
- PSY 310 Industrial Psychology (3) ii**
Psychology for management and employees in business and industry, with emphasis on psychological principles helpful to people working with people or serving the public.
Prerequisite: PSY 101.
- PSY 312 Psychology of the Exceptional Child (3) ii**
Considers problems and needs of children who noticeably deviate from accepted physical, psychological, and social norms.
Prerequisite: PSY 101, 200, or consent of instructor.
- 100 PSY 320 Adolescent Psychology (3) ii**
A descriptive and explanatory consideration of adolescence, with emphasis on motivation and frustration.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 325 Psychology of Personality (3) i**
Dynamics of personality development and human behavior, with emphasis on theories of personality.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 330 Systematic Psychology (3) i**
Consideration of the major ways of defining, organizing, and explaining psychological phenomena.
Prerequisite: PSY 101, 200.
- PSY 335 Learning Theories (3) i even years**
A survey of the major theories of learning in contemporary psychology, with a brief historical introduction.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 345 Animal Behavior (3) i odd years.**
Introduction to the comparative method in exploring and classifying psychological behavior in the Animal Kingdom.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 350 Physiological Psychology (3) i even years**
Investigates the physiological correlates of psychological behavior in man.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 401 Social Psychology (3) i (ii even years)**
Considers the individual in relation to his society. The course covers theoretical foundations, socialization, social cognition, group dynamics and leadership.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 405 Psychology of Communication (3) ii odd years**
Analyzes the elements of interpersonal communication with emphasis on techniques of communicating thoughts and ideas, listening techniques, understanding meaning, the utilization of feedback, and reasons for failures to communicate. Designed to improve the student's interpersonal relationships.
Prerequisite: PSY 101, 200, or consent of instructor.
- PSY 415 Intermediate Statistics for the Behavioral Sciences (3) i, even years or on demand**
An application of basic statistical procedures to behavioral research. Some statistical procedures not taught in Math 201, and the use of computers in data analysis are also considered. Two hours lecture and 2 hours lab.
Prerequisite: PSY 200, MAT 201.
- PSY 420 Practicum in Psychology (4) i**
To provide senior students in psychology the experience of applying their knowledge to an actual work situation in the field. An additional 4 credit hours may be earned by taking PSY 421.
Prerequisite: Senior status in Psychology, and consent of department.
- PSY 421 Practicum in Psychology (4) ii**
To provide senior students in psychology the experience of applying their knowledge to an actual work situation in the field. An additional 4 credit hours may be earned by taking PSY 420.
Prerequisite: Same as PSY 420.
- PSY 422 Behavioral Management (2) ii**
Explores the application of behavioristic principles to human problems.
Prerequisite: PSY 101, 200 or consent of instructor.
- PSY 450 Independent Study (credit hours open) i, ii**
By arrangement. Open only to seniors as a means of taking a required course which is not otherwise available during their senior year. Requires consent of the department chairman.
- PSY 480 Independent Research (1-5) i, ii**
Research of selected topics or problems on an individual conference basis.
Prerequisite: Consent of chairman.
- PSY 490 Senior Seminar (2) i, ii**
A course designed for seniors majoring in psychology. Emphasis will be on discussion of current areas of interest in psychology. In addition present vocational and educational opportunities will be brought to the attention of students.
Prerequisite: Consent of instructor.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN PSYCHOLOGY**

Freshman Year

Fall Semester

PSY 101	General Psychology	3
ENG 104	English	3
MAT 101	Fund. Concepts of Math.....	3
BIO 101	Principles of Biology.....	5
PED 101	Concepts of P.E.....	1
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Spring Semester

PSY 200	Intermediate Psychology.....	3
ENG 108	English	3
MAT 105	College Algebra	3
SOC 101	General Sociology.....	3
HIS 140	American History.....	3
	P.E. Activity.....	1
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		16

Sophomore Year

Fall Semester

PSY 210	Mental Hygiene	3
MAT 201	Elementary Statistics	3
SPH 104	Oral Communications.....	3
GEO 100	World Geography.....	3
	P.E. Activity.....	1
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		16

Spring Semester

PSY 300	Psychological Measurements and Appraisals.....	3
SOC 120	Cultural Anthropology.....	3
PHY 101	Concepts and Principles of Physics.....	4
HUM 210	Intro. to Philosophy	3
	Elective	3
		<hr/>
		16

Junior Year

Fall Semester

PSY 310	Experimental Psych.....	4
	Psychology Elective.....	3
ENG 210	Approaches to Lit	3
HUM 203	Humanities I.....	3
	Elective	3
		<hr/>
		16

Spring Semester

PSY 330	Systematic Psychology.....	3
ENG 220	Classical Backgrounds for Literature.....	3
HUM 205	Humanities II.....	3
	P.E. Activity	1
	Psychology Elective.....	3
	Elective	3
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		16

Senior Year

Fall Semester

ENG 220	Classical Backgrounds for Literature.....	3
	Psychology Electives	6
	Elective 300 or 400 level.....	3
	Foreign Language	4
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		16

Spring Semester

PSY 401	Social Psychology	3
PSY 490	Senior Seminar	2
	Electives, 300 or 400 level	6
	Foreign Language	4
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**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN PSYCHOLOGY**

Freshman Year

Fall Semester

PSY 101	General Psychology	3
ENG 104	English	3
MAT 101	Fund. Concepts of Math.....	3
BIO 101	Principles of Biology.....	5
PED 101	Concepts of P.E.....	1
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Spring Semester

PSY 200	Intermediate Psychology.....	3
ENG 108	English	3
MAT 105	College Algebra	3
SOC 101	General Sociology.....	3
HIS 140	American History.....	3
	P.E. Activity.....	1
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		16

Sophomore Year

Fall Semester

PSY 210	Mental Hygiene	3
MAT 201	Elementary Statistics	3
SPH 104	Oral Communications.....	3
GEO 100	World Geography.....	3
	Elective	3
	P.E. Activity.....	1
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		16

Spring Semester

PHY 101	Concepts and Principles of Physics.....	4
PSY 300	Psychological Measurements and Appraisals.....	3
SOC 210	Cultural Anthropology.....	3
HUM 210	Intro. to Philosophy	3
	Elective	3
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		16

Junior Year

Fall Semester

	Psychology Electives	6
ENG 210	Approaches to Lit	3
HUM 203	Humanities I.....	3
	Foreign Language	4
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		16

Spring Semester

PSY 330	Systematic Psychology.....	3
HUM 205	Humanities II.....	3
	Foreign Language	4
PSY 301	Experimental Psychology	4
	P.E. Activity	1
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		15

Senior Year

Fall Semester

	Psychology Electives	6
PSY 350	Physiological Psych.....	3
	Electives, 300 or 400 level	6
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Spring Semester

PSY 401	Social Psychology	3
	Behavioral Sciences.....	3
PSY 490	Senior Seminar	2
	Electives, 300 or 400 level	6
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THE DIVISION OF LIBERAL ARTS AND SCIENCES

The division includes the departments of: Art, Biology, Chemistry, English and Modern Languages, Mathematical Sciences, Music, Social Science, and Speech/Theatre/Humanities.

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The division is the essential core of the College. While other divisions largely direct their work toward specific groups within the student body, the Division of Liberal Arts and Sciences is concerned with all students. In contrast with those divisions that are essentially vocational, technical, or professional in their orientation, Liberal Arts and Sciences is primarily concerned with knowledge as a liberating force in the lives of all human beings. Within its disciplines, knowledge is investigated as the sum of the human endeavor to understand the nature of man and the universe; as an essential agent in the attempt to develop both man and the universe to their full potential; and as the

goal in a never-ending effort to extend its limits.

To make its work more effective, the division must also be concerned with the application of its appropriate bodies of knowledge to specific pursuits, and to the development of competencies in those students who wish to make arts or sciences the basis of their life work. Since Missouri Western State is an open-door college with especially close ties to the community, certain obligations must be assumed by the division. It must both demand the right and demonstrate the willingness to provide appropriate opportunities for growth to those who are not only able to benefit from its offerings but also willing to accept the self-discipline required for progress; it must act as a catalyst in the cultural life of the community.

In all its activities, the division must strive, and lead others to strive, for academic excellence.

J. Estes — chairman
S. Conn
J. Harmon
J. Hughes

J. Nelson
R. Schaller

The department of Art is concerned with developing the skills and creative potentials of its majors, and provides the student with courses in art history, art education, seminars and studio. Basic skills for teaching at the elementary and secondary school levels are part of the expanding curriculum. Art training in the studio areas is presented with the aim of providing relevant skills and experience

in today's demands of becoming a professional artist.

In order to broaden the horizons of its students the Art department has a gallery exhibition program and endeavors to provide visiting artists and lecturers, when possible. Field trips to the Albrecht and Nelson Galleries are an integral part of many class experiences. Students are encouraged to take advantage of the many cultural events, both on campus and in the St. Joseph/Kansas City area.

BACHELOR OF ARTS DEGREE
(Requires 16 credit hours in a single foreign language)

work for examination by a committee of the art faculty.

BACHELOR OF SCIENCE IN EDUCATION DEGREE

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MAJOR IN ART

MAJOR IN ART

Courses in Art must total 57 credit hours. The following specific courses are required: ART 205, 206, plus 6 additional credit hours selected from courses in art history; ART 130, 170, 260, 310, 330, 340, 360, 370, 380, 390, 460, 485, and 495, plus 9 additional credit hours in one specific studio area.

Courses in Art must total 52 credit hours. The following specific courses are required: ART 205, 206, plus 3 additional credit hours selected from courses in art history; ART 130, 170, 260, 300, 310, 330, 340, 360, 370, 380, 400, 460, 485, 495, plus 5 additional credit hours selected from courses in studio art.

Each art major is responsible for contacting his advisor to schedule his Junior Review during the last semester of his junior year. For this review the student brings a representative sampling of his creative

Each art major is responsible for contacting his advisor to schedule his Junior Review during the last semester of his junior year. For this review the student brings a representative sampling of his creative work for examination by a committee of the art faculty.

HISTORY AND APPRECIATION OF ART

ART 206 Renaissance Through Modern Art (3) ii
History of art in western civilization: Renaissance through modern times.

ART 100 Introduction to Art (3) i, ii, iii
General background in the history, philosophy, principles, and techniques of the visual arts. Not for art majors.

ART 307 Art of Eastern Civilization (3) i (even numbered years)
The history of art in eastern civilization from earliest records to the present day; visual arts of India, China, and Japan.
Prerequisite: ART 205, 206, or consent of instructor.

ART 205 Ancient Through Medieval Art (3) i
History of art in western civilization: pre-historic times through the Middle Ages.

- ART 405 Nineteenth Century Art (3) i (odd numbered years)**
Major movements in nineteenth century painting, sculpture and architecture.
Prerequisite: Art 205, 206, or consent of instructor.
- ART 406 Twentieth Century Art (3) ii (even numbered years)**
Art in the twentieth century.
Prerequisite: ART 205, 206, or consent of instructor.
- ART 411 American Art (3) ii (odd numbered years)**
Development of Art in the United States.
Prerequisite: ART 205, 206, or consent of instructor.
- ART 450 Independent Study in Art (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.

STUDIO ART

- Art 130 Beginning Drawing (3) i, ii, iii**
Elementary drawing with the figure, still life, landscape, and perspective in various media. 6 studio hours.
- ART 170 Introduction to Tools and Techniques (2) i**
Basic skills with studio hand tools and power equipment. Emphasis on safety procedures. This course is a prerequisite for any studio art course except ART 130 and 260. 4 studio hours.
- ART 260 Two-Dimensional Design (3) i**
Design in two-dimensional problems in various media. 6 studio hours.
- ART 300 Art Teaching: Media and Concepts (3) i, ii, iii**
Media and concepts in elementary art for education majors.
Prerequisite: EED 202 or permission of instructor.
- ART 310 Beginning Ceramics (3) i, ii**
Basic foundation in ceramics: Theory, techniques, materials, processes. 6 studio hours. (Student must purchase the clay which he uses.)
- ART 320 Beginning Graphic Design (3) ii**
Basic layout work: emphasis in typography and symbology; their interrelationship in communicating ideas visually. 6 studio hours.
Prerequisite: ART 130, 260, 390.
- ART 325 Beginning Jewelry (2)**
Basic jewelry techniques relating to design and sheet stock fabrication. 4 studio hours.
- ART 330 Advanced Drawing (3) i, ii**
The figure in various media, and drawing as a complete form. May be repeated for credit.
Prerequisite: ART 130.
- ART 340 Beginning Printmaking (3) i, ii**
Wood block, etching, serigraphy. 6 studio hours.
Prerequisite: ART 130, 260, 330.

- ART 360 Three-Dimensional Design (3) ii**
Form in the third dimension; design principles and elements as they relate to three dimensions. 6 studio hours.
Prerequisite: ART 260.
- ART 370 Beginning Painting (3) i, ii**
Color, composition, technique; the figure and still life. 6 studio hours.
Prerequisite: 6 credit hours of drawing.
- ART 380 Beginning Sculpture (3) ii**
Basic foundations in sculpture; theory, techniques, materials, processes. 6 studio hours.
Prerequisite: ART 130.
- ART 390 Beginning Photomedia (3) i**
Basic black and white photographic processes that relate visual art principles to the environment. Student must have access to camera with adjustable aperture and shutter speed. 6 studio hours.
Prerequisite: ART 130, 260.
- ART 400 Secondary Art Education: Philosophy and Methods (2) ii (even numbered years)**
Presentation of unique problems and duties of the secondary school art teacher.
Prerequisite: 20 credit hrs. art.
- ART 410 Advanced Ceramics (3) i, ii**
Advanced techniques and problems in ceramics. 6 studio hours. May be repeated for credit. (Student must purchase the clay which he uses.)
Prerequisite: ART 310 and permission of instructor.
- ART 420 Advanced Graphic Design (3) ii**
Advanced layout work: camera ready-work, mechanicals; emphasis in typography and symbology, their interrelationship in communicating ideas visually. May be repeated for credit. 6 studio hours.
Prerequisite: ART 320.
- ART 425 Advanced Jewelry (2)**
Continuation of basic jewelry-making techniques. Emphasis on various casting techniques, handling of different metals and related materials. May be repeated for credit. 4 studio hours.
Prerequisite: ART 325.
- ART 440 Advanced Printmaking (3) i, ii**
Continuation of ART 340. 6 studio hours. May be repeated for credit.
Prerequisite: ART 340.
- ART 460 Composition in Art (3) i**
A sequel to Art 260 and 360. Re-definition and sophistication of the elements of design in problem solving; examination of master works, critiques; emphasis on college techniques. 6 studio hours.
Prerequisite: ART 360 and 6 hours drawing.
- ART 470 Advanced Painting (3) i, ii**
Continuation of ART 370. 6 studio hours. May be repeated for credit.
Prerequisite: ART 370.
- ART 480 Advanced Sculpture (3) ii**
Advanced techniques in various media. 6 studio hours. May be repeated for credit.
Prerequisite: ART 380.
- ART 485 Senior Exhibit (1) i, ii, iii**
Preparation and presentation of an exhibition of personal art work under the direction and approval of a faculty supervisor.

Prerequisite: Permission of the Junior Review Committee.

ART 490 Advanced Photomedia (3) i
Advanced problems and techniques in black and white photographic processes. Student must have access to camera with adjustable aperture and shutter speed.

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN ART**

Freshman Year

Fall Semester

ART 130	Beginning Drawing	3
ART 170	Introduction to Tools and Techniques	2
ART 260	Two-Dimensional Design	3
	General Studies IV Elective	4
ENG	English 104, 108, or 112	3
PED 101	P.E. Concepts	1
		16

Spring Semester

ART 330	Advanced Drawing	3
ART 360	Three-Dimensional Design	3
SPH	104, 105 or 106	3
ENG	English 108 or 112	3
	General Studies II Elective	3
	P.E. Activity	1
		16

Sophomore Year

Fall Semester

ART 205	Ancient Through Medieval Art	3
ART 310	Beginning Ceramics	3
ART 390	Beginning Photomedia	3
	General Studies III Elective	3
	Foreign Language	4
		16

Spring Semester

ART 206	Renaissance Through Modern Art	3
ART 380	Beginning Sculpture	3
ART 370	Beginning Painting	3
	General Studies III Elective	3
	Foreign Language	4
		16

Junior Year

Fall Semester

ART 307 or ART 405	Art of Eastern Civilization (Even years)	3
ART 340	19th Century Art (Odd years)	3
ART 460	Beginning Printmaking	3
MAT 101	Composition in Art	3
	or higher	3
	Foreign Language	4
		16

May be repeated for credit. 6 studio hours.
Prerequisite: ART 390.

ART 495 Seminar in Art (3) i
Topics to vary each year: relating art history, criticism, and studio problems.
Prerequisite: 9 credit hours art history and 12 credit hours studio art.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN ART**

Freshman Year

Fall Semester

ART 130	Beginning Drawing	3
ART 170	Introduction to Tools and Techniques	2
ART 260	Two-Dimensional Design	3
ENG	English 104, 108 or 112	3
	General Studies II Elective	3
PED 101	P.E. Concepts	1
		15

Spring Semester

ART 330	Advanced Drawing	3
ART 360	Three-Dimensional Design	3
ENG	English 108 or 112	3
	General Studies IV Elective	5
	P.E. Activity	1
		15

Sophomore Year

Fall Semester

ART 205	Ancient Through Medieval Art	3
ART 310	Beginning Ceramics	3
SPH	104, 105, or 106	3
	General Studies II Elective	3
	General Studies III Elective	3
	P.E. Activity	1
		16

Spring Semester

ART 206	Renaissance Through Modern Art	3
ART 340	Beginning Printmaking	3
ART 370	Beginning Painting	3
	General Studies II Elective	3
SED 202	Intro. to Sec. Ed	2
SED 203	Part. in Sec. Teach. I	1
	P.E. Activity	1
		16

Junior Year

Fall Semester

ART 405 or ART 307	19th Century Art (Odd years)	3
ART 307	Art of Eastern Civilization (Even years)	3
ART 300	Art Teaching: Media and Concepts	3
ART 460	Composition in Art	3
	General Studies II Elective	3
	General Studies III Elective	3
		15

	Spring Semester	
ART 411	American Art (Odd years).....	3
or		
ART 406	20th Century Art (Even years)	
	Art Elective.....	3
	General Studies II Elective.....	3
	Foreign Language.....	4
	General Studies III Elective.....	3
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		16

	Senior Year	
	Fall Semester	
ART 495	Seminar in Art.....	3
	Art Elective.....	3
	General Studies II Elective.....	3
	Free Electives.....	6
	P.E. Activity.....	1
		<hr/>
		16

	Spring Semester	
ART 485	Senior Exhibit.....	1
	Art Elective.....	3
	General Studies IV Elective.....	5
	Free Electives.....	6
	P.E. Activity.....	1
		<hr/>
		16

	Spring Semester	
*ART 400	Secondary Art Education.....	2
	Art Elective.....	3
ART 380	Beginning Sculpture.....	3
SED 303	Exp. in Sec. Teach. II.....	3
SED 304	Psy. in Sec. Teach.....	4
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		15

	Senior Year	
	Fall Semester	
ART 495	Seminar in Art.....	3
	Art Elective.....	2
SED 311	Audio Vis. Education.....	2
	General Studies IV Elective.....	4
	Free Electives.....	6
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		17

	Spring Semester	
ART 485	Senior Exhibit.....	1
SED 404	Foundations in Sec. Ed.....	3
SED 407	Psychology and Ed. of the Exceptional Student.....	2
SED 409	Sec. Student Teach. III.....	9
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*For graduation in an even numbered year, ART 400 must be taken in spring semester of the sophomore year.

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department of

BIOLOGY

H. Force — chairman

Dr. W. Andresen

R. Boutwell

Dr. R. Crumley

Dr. L. Galloway

Dr. T. Rachow

Dr. D. Robbins

Biology students study all forms of life at the molecular as well as the organismal and population levels of complexity. These students work in new laboratories using modern tools and techniques, and in the department's wilderness area studying life in its natural environment. Independent study and special problems are offered for advanced students.

BACHELOR OF ARTS DEGREE **(Requires 16 credit hours in a single foreign language)**

MAJOR IN BIOLOGY

Courses in Biology must total 36 credit hours. The following specific courses are required: BIO 111, 112, 309, 310, 311, 312, 411, 412, plus 9 additional credit hours selected from Biology courses numbered 300 or higher, of which a minimum of 3 credit hours must be in plant science; CHE 111, 120, 310, 311, 370; MAT 105 and 201; PHY 101 or 110.

MAJOR IN NATURAL SCIENCE **(BIOLOGY EMPHASIS)**

Courses in Biology must total 27 credit hours. The following specific courses are required: BIO 111, 112, 310, 312, 412, plus 12 additional credit hours selected from Biology courses numbered 300 or higher; CHE 111, 120, 310, 311, 312, 313, 370; PHY 101, or 110, MAT 107, 201.

BACHELOR OF SCIENCE DEGREE

MAJOR IN BIOLOGY

Courses in Biology must total 40 credit hours. The following specific courses are required: BIO 111, 112, 309, 310, 311, 312,

The biology curriculum consists of core courses which are taken by all biology majors regardless of specialization, followed by biology electives in specific areas. These core courses are designed to give students a rigorous and sophisticated introduction to the principles of all important areas of modern biology.

411, 412, plus 13 additional credit hours selected from Biology courses numbered 300 or higher, of which a minimum of 3 credit hours must be in plant science; CHE 111, 120, 310, 311, 370, MAT 105 and 210; PHY 101 or 110.

BACHELOR OF SCIENCE IN EDUCATION 107 **DEGREE**

MAJOR IN BIOLOGY

Courses in biology must total 36 credit hours. The following specific courses are required: BIO 111, 112, 260, 309, 310, 311, 312, 380, 411, 412, plus 3 additional credit hours selected from BIO 350, 405, 406; CHE 111, 120, 310, 311, 370; MAT 105 and 201; PHY 101 or 110.

MINOR IN BIOLOGY

A minor in biology consists of a minimum of 20 credit hours, including BIO 101 or 111, plus at least one course from each of the four areas listed below.

Environmental Biology: BIO 305, 309;

Physiology: BIO 250, 311;

Taxonomic Biology: BIO 350, 405, 406, 415, 416;

Biology Electives: BIO 252, 260, 310, 320, 399, 411.

Careful attention must be given to course prerequisites in the planning of the minor program.

BIOLOGY

- BIO 101 Principles of Biology (5) i, ii, iii**
Principles of living phenomena; meets the general education biological science requirement. Will substitute for BIO 111 for a student who earns a grade of "C" or better and subsequently majors in biology. 4 hours lecture, 2 hours lab.
- BIO 111 General Biology (3) i**
Phenomena associated with living organisms; primarily for biology majors. 2 hours lecture, 3 hours lab.
- BIO 112 General Biology (3) ii**
Continuation of BIO 111; 2 hours lecture, 3 hours lab.
- BIO 250 Anatomy and Physiology (5) i, ii, iii**
Concepts of human function and structure and relationship of these concepts to cells, tissues, organs, and systems. 4 hours lecture, 3 hours lab. Credit for this course is not applicable toward a major in biology.
Prerequisite: BIO 101 or consent of instructor.
- BIO 251 Medical and Public Health Microbiology (4) i, ii, iii**
Introductory concepts of microorganisms; their characteristics, relationships to disease, means of transmission, and methods of control. 3 hours lecture, 3 hours lab. Credit for this course is not applicable toward a major in biology.
- BIO 252 Basic Nutrition (3) ii**
The science of human nutrition and its importance in the maintenance of health; translation of the basic principles of nutrition to the needs of individuals. Credit for this course is not applicable toward a major in biology.
- BIO 260 Human Sexuality (3) i, ii, iii**
Biological, sociological, and psychological aspects of human sexuality. Credit for this course is not applicable toward a major in biology.
- BIO 301 Ecology Seminar (1) Spring intercession**
Interrelationships of fish, game, forest, the physical environment, and man. May be repeated for maximum of 2 credit hours. Course grades assigned on pass-fail basis.
- BIO 305 Human Ecology (3) ii, iii**
Man and his environment: ecological principles, population, pollution, resources.
Prerequisite: BIO 101.
- BIO 309 Environmental Biology (4) i**
Basic concepts and field techniques used in studying the relationships of organisms to their environment. 3 hours lecture, 3 hours lab.
Prerequisite: BIO 111 or 112 or consent of instructor.
- BIO 310 Cellular Biology (4) i**
Molecular cell structure with relationship to such cell functions as transport, chemical transformations, growth, and reproduction. 3 hours lecture, 2 hours lab.
Prerequisite: BIO 111 and CHE 120, or consent of instructor.
- BIO 311 Animal Physiology (4) ii**
The physiological systems, their functions and inter-actions in human physiology; comparisons within the animal kingdom. 3 hours lecture, 2 hours lab.
Prerequisite: BIO 111 or consent of instructor.
- BIO 312 Genetic Biology (4) ii**
Hereditary and adaptive principles as applied to plants and animals. 3 hours lecture, 3 hours lab.
Prerequisite: BIO 310 and MAT 210, or consent of instructor.
- BIO 320 Histology (3) i (even numbered years)**
Identification and description of microscopic structure, organization of tissues and organs, preparation of tissues for observation and study. 2 hrs. lecture, 3 hrs. lab.
Prerequisite: BIO 111 or consent of instructor.
- BIO 350 Plant Systematics (3) i**
Identification, characteristics and importance of seed plants. Study of classification, techniques and literature of taxonomy. A plant collection and field trips will be required. 2 hours of lecture, 2 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 380 Science Teaching: Materials and Methods (3) ii**
Curricula, evaluation, laboratory equipment, supplies and techniques.
Prerequisite: 20 hours of science, or consent of instructor.
- BIO 399 Microbiology (5) i**
Identification, characteristics and importance of common forms of microorganisms; their application to the needs of man, infectious diseases and immunity, microbiology of air, water, foods, and their uses in industrial and scientific process. 3 hours lecture, 4 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 400 Microbiology of Human Disease (5) ii (odd numbered years)**
Pathogenic microorganisms, medically important parasites of man; immunological principles, collection, isolation and identification techniques. 3 hours lecture, 4 hours lab.
Prerequisite: BIO 399.
- BIO 405 Plant Morphology: Nonvascular Plants (3) i (odd numbered years)**
Structure, development, and relationships of the algae, fungi and the bryophytes. 2 hours lecture, 2 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 406 Plant Morphology: Vascular Plants (3) ii (even numbered years)**
Structure, development and relationships of the vascular plants. 2 hours lecture, 2 hours lab.
Prerequisite: BIO 111 or 112.

- BIO 411 Developmental Biology (4) ii**
Plant and animal development; formation of organs and organ systems. 3 hours lecture, 3 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 412 Seminar in Biology (1) i, ii**
Individual reports and group discussion on problems and current research in biology. May be repeated for a maximum total of 2 credit hours. Biology majors are expected to attend during the Junior and Senior years whether or not they are enrolled for credit.
Prerequisite: Consent of instructor.
- BIO 415 Invertebrate Zoology (3) i (even numbered years)**
Comparative anatomy and biological principles of the invertebrates. 2 hours lecture, 2 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 416 Vertebrate Zoology (3) ii (odd numbered years)**
Principles and evolution of vertebrate structure and function. 2 hours lecture, 2 hours lab.
Prerequisite: BIO 111 or 112.
- BIO 420 Biology Practicum (1) i, ii, iii**
Supervised experience in the development and use of laboratory materials for biology classes. Student will serve as a resource person in beginning biology laboratories.
Prerequisite: Consent of instructor.
- BIO 450 Independent Study in Biology (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.
- BIO 470 Literature of Biology (2) ii (even numbered years)**
Research in major journals and other literature in the area of biology. For biology majors.
Prerequisite: Consent of instructor.
- BIO 495 Special Problems in Biology (1-5) i, ii, iii**
Research problems in biology.
Prerequisite: Consent of instructor.

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN BIOLOGY**

**Freshman Year
Fall Semester**

*BIO 111	General Biology	3
ENG	104, 108, or 112	3
*102	Foreign Language	4
CHE 111	General Chemistry I	5
	—	15

Spring Semester

**BIO 112	General Biology	3
ENG	104, 108, or 112	3
**112	Foreign Language	4
CHE 120	General Chemistry II	5
	—	15

**Sophomore Year
Fall Semester**

*BIO 309	Environmental Biology	4
*CHE 310	Organic Chemistry I	3
*CHE 311	Organic Chemistry Lab. I	2
202	Foreign Language	4
MAT 105	College Algebra	3
	—	16

Spring Semester

**CHE 370	Biochemistry	4
**212	Foreign Language	4
	General Studies II Elective	3
MAT 201	Statistics	3
	P.E. Concepts	1
	—	15

**Junior Year
Fall Semester**

*BIO 310	Cellular Biology	4
PHY 101	or 110 Physics	5
	General Studies II Elective	3
*BIO 350	Plant Systematics or	3
***BIO 406	or 407 Plant Morphology	3
	—	15

Spring Semester

**BIO 311	Animal Physiology	4
**BIO 312	Genetic Biology	4
	General Studies III Elective	3
	Elective	3
	P.E. Activity	1
	—	15

**Senior Year
Fall Semester**

BIO 412	Seminar in Biology	1
	General Studies III Elective	3
	Biology Electives	6
	P.E. Activity	1
	Free Electives	6
	—	17

Spring Semester

**BIO 411	Developmental Biology	4
	General Studies III Elective	3
	General Studies II Elective	3
	Biology Electives	6
	P.E. Electives	1
	—	17

*Courses offered only Fall Semester.
**Courses offered only Spring Semester.
***Courses offered on alternate years.

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN NATURAL SCIENCE
(BIOLOGY EMPHASIS)**

Freshman Year

Fall Semester

*BIO 111	General Biology	3
ENG 104, 108 or 112	.....	3
102	Foreign Language	4
CHE 111	General Chemistry I	5
	—	15

Spring Semester

**BIO 112	General Biology	3
ENG 104, 108 or 112	.....	3
**112	Foreign Language	4
CHE 120	General Chemistry II	5
	—	15

Sophomore Year

Fall Semester

MAT 105	College Algebra	3
*CHE 310	Organic Chemistry I	3
*CHE 311	Organic Chemistry Lab. I	2
*202	Foreign Language	4
SPH 104, 105, or 106	.....	3
	P.E. Concepts	1
	—	16

Spring Semester

MAT 106	Trigonometry	2
**CHE 312	Organic Chemistry II	3
**CHE 313	Organic Chemistry Lab. II	2
**212	Foreign Language	4
	General Studies II Elective	3
	P.E. Activity	1
	—	15

Junior Year

Fall Semester

*BIO 310	Cellular Biology	4
MAT 201	Elementary Statistics	3
PHY 101	.....	5
or 110	Physics	5
	Biology Elective	4
	—	16

Spring Semester

**BIO 312	Genetic Biology	4
**CHE 370	Biochemistry	4
	General Studies III Elective	3
	General Studies II Elective	3
	P.E. Activity	1
	—	15

Senior Year

Fall Semester

MAT 107	Calculus I	5
*BIO	Plant Science	3
	General Studies III Elective	3
	P.E. Activity	1
	Biology Elective	4
	—	16

Spring Semester

BIO 412	Seminar in Biology	1
	General Studies III Elective	3
	Biology Electives	9
	General Studies II Elective	3
	—	16

*Courses offered only Fall Semester.

**Courses offered only Spring Semester.

***Courses offered on alternate years.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN BIOLOGY**

Freshman Year

Fall Semester

*BIO 111	General Biology	3
ENG 104, 108 or 112	.....	3
MAT 105	College Algebra	3
CHE 111	Chemistry I	5
PED 101	P.E. Concepts	1
	—	15

Spring Semester

**BIO 112	General Biology	3
ENG 104, 108 or 112	.....	3
PHY 101	or 110 Physics	5
CHE 120	Chemistry II	5
	—	16

Sophomore Year

Fall Semester

*BIO 309	Environmental Biology	4
*CHE 310	Organic Chemistry	3
CHE 311	Organic Chemistry Lab	2
SPH 104, 105 or 106	.....	3
	General Studies III Elective	3
	P.E. Activity	1
	—	16

Spring Semester

**CHE 370	Biochemistry	4
	General Studies II Elective	3
	General Studies III Elective	3
	Biology Electives	4
	P.E. Activity	1
	—	15

Junior Year
Fall Semester

*BIO 310	Cellular Biology.....	4
*BIO 350	Plant Systematics of	3
**BIO 406	or 407 Plant Morphology	3
	General Studies II Elective	3
	General Studies III Elective	3
	—	16

Spring Semester

**BIO 311	Animal Physiology.....	4
**BIO 312	Genetic Biology	4
	General Studies II Elective	3
	General Studies III Elective	3
	P.E. Activity	1
	—	15

Senior Year
Fall Semester

	Biology Elective.....	8
	Free Electives.....	8
	—	16

Spring Semester

**BIO 411	Developmental Biology.....	4
BIO 412	Seminar in Biology	1
	Biology Electives	4
	Free Electives.....	6
	—	15

*Courses offered only Fall Semester.

**Courses offered only Spring Semester.

***Courses offered on alternate years.

SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN BIOLOGY

Freshman Year
Fall Semester

*BIO 111	General Biology	3
ENG	104, 108, or 112	3
MAT 105	College Algebra	3
CHE 111	General Chemistry I	5
	P.E. Concepts.....	1
	—	15

Spring Semester

**BIO 112	General Biology	3
ENG	104, 108, or 112	3
PHY 101	or 110 Physics	5
CHE 120	General Chemistry II	5
	—	16

Sophomore Year
Fall Semester

*BIO 309	Environmental Biology	4
*CHE 310	Organic Chemistry I.....	3
*CHE 311	Organic Chemistry Lab I	2
MAT 201	Elementary Statistics	3
	General Studies III Electives	3
	P.E. Activity	1
	—	16

Spring Semester

**CHE 370	Biochemistry.....	4
SED 202	Intro. to Sec. Ed.....	2
SED 203	Participation in Secondary Teaching I	1
	General Studies II Elective	3
	General Studies III Elective	3
BIO 260	Human Sexuality.....	3
	—	16

Junior Year
Fall Semester

SED 303	Exp. in Sec. Teach. II.....	3
SED 304	Psy. in Sec. Teach.....	4
*BIO 310	Cellular Biology.....	4
	General Studies II Elective	3
	P.E. Activity	1
	—	15

Spring Semester

**BIO 380	Science Teach: Materials and Methods..	3
**BIO 311	Animal Physiology.....	4
**BIO 312	Genetic Biology	4
**BIO 411	Developmental Biology.....	4
	P.E. Activity	1
	—	16

Senior Year
Fall Semester

*BIO 350	Plant Systematic or	
**BIO 405	or 406 Plant Morphology	3
	General Studies III Electives	3
	General Studies II Elective	3
	Biology Elective.....	3
BIO 412	Seminar in Biology	1
	Speech.....	3
	—	16

Spring Semester

SED 404	Foundation in Sec. Ed.....	3
SEC 407	Psychology and Educ. of the	
	Exceptional Student	2
SED 409	Secondary Student Teach. III.....	9
	—	14

*Courses offered Fall Semester only.

**Courses offered Spring Semester only.

***Courses offered on alternate years.

Dr. G. Zweerink — chairman

L. Archer

A. Heckel

Dr. L. Lambing

J. Redmond

Dr. R. Schwarz

Dr. R. Smith

The department of Chemistry deals with a core knowledge that is essential to much of the scientific experimentation that influences our daily lives in the modern world. From atomic theories to basic chemical structures, the prospective chemist studies that material which forms a basis for important work in engineering,

pharmacy, medicine, medical technology, dentistry, and research chemistry.

The department also assists in the preparation of prospective science teachers. These students, as well as those who study chemistry as a part of their basic education, work in new facilities fully equipped for investigating contemporary chemistry topics in both classroom and laboratory.

BACHELOR OF ARTS DEGREE
(Requires 16 credit hours in a single foreign language)

MAJOR IN CHEMISTRY

112

Courses in Chemistry must total 35 credit hours. The following specific courses are required: CHE 111, 120, 310, 311, 312, 313, 321, 431, 432, 495, plus an additional 5 credit hours from Chemistry courses numbered 300 or higher; MAT 107, 108, 209; PHY 110; GER 102, 112, 202, 212.

BACHELOR OF SCIENCE DEGREE

MAJOR IN CHEMISTRY

Courses in Chemistry must total 45 credit hours. The following specific courses are required: CHE 111, 120, 310, 311, 312, 313, 321, 326, 341, 431, 432, 433, 434, 440, 495, MAT 107, 108, 209; PHY 210, 211, 212; GER 102, 112.

MAJOR IN MEDICAL TECHNOLOGY

Courses in the Natural Sciences and Mathematics must total 57 credit hours; courses in Medical Technology must total 31 credit hours. The following specific courses are required: CHE 111, 120, 310, 311, 321, 326, 370; BIO 111, 311, 399, 400, plus 4 credit hours selected from Biology courses numbered 300 or higher; MAT 105, 106; PHY 101 or 110; MTE 105, 451, 452, 453.

MAJOR IN NATURAL SCIENCE
(CHEMISTRY EMPHASIS)

Courses in the Natural Sciences and Mathematics must total 70 credit hours. The following specific courses are required: CHE 111, 120, 310, 311, 321, 370, 495, plus an addition 7 credit hours selected from Chemistry courses numbered 300 or higher; BIO 111, 310, 311 plus an additional 12 credit hours selected from Biology courses numbered 300 or higher; PHY 110, 111; MAT 105, 106, 201 or MAT 107, 201.

BACHELOR OF SCIENCE IN
EDUCATION DEGREE

MAJOR IN CHEMISTRY

Courses in Chemistry must total 32 credit hours. The following specific courses are required: CHE 111, 120, 310, 311, 321, 431, 432, 465, 495, plus an additional 5 credit hours from Chemistry courses numbered 300 or higher; MAT 107, 108, 209; PHY 110, 111.

MINOR IN CHEMISTRY

A minor in Chemistry consists of 18 credit hours in Chemistry, including CHE 111 and CHE 120 plus elective courses in chemistry numbered 300 or higher.

CHEMISTRY

- (Student must furnish required laboratory apron and safety glasses in laboratory courses. A \$2.00 refundable laboratory deposit is also required.)
- CHE 100 Introduction to the Metric System (1) i, ii**
The metric system including history of measurements, relationships within the metric system and conversions between the English and metric systems.
- CHE 101 Introductory Chemistry (5) i, ii, iii**
Chemistry for Arts and Science students; meets the minimum physical science requirement. 3 hours lecture, 1 hour discussion, 2 hours lab.
- CHE 104 Fundamentals of Chemistry (4) i, ii**
A survey of chemistry with special emphasis in solution and biochemistry; for students majoring in scientific and technological fields such as nursing, agriculture. 3 hours lecture, 2 hours lab.
- CHE 111 General Chemistry I (5) i, ii**
Basic concepts of chemistry; atomic theory and periodic system, chemical calculations, oxidation-reduction, states of matter, theory of chemical bonding, atomic structures. 3 hours lecture, 1 hour discussion, 3 hours lab.
Prerequisite: 2 units algebra. High school chemistry is also recommended.
- CHE 120 General Chemistry II (5) i, ii**
Continuation of CHE 111; thermochemistry, equilibrium, electro-chemistry, radio-chemistry, coordination chemistry and a survey of the main group elements and their compounds. Laboratory includes the topics above along with the separation and identification of some of the more common anions and cations by qualitative analysis. 3 hours lecture, 6 hours laboratory.
Prerequisite: CHE 111 with a grade of C or better.
- CHE 204 Agricultural Organic Chemistry (4) ii (odd numbered years)**
The aliphatic and aromatic series; fundamentals and reactions, relationship to the life processes and to the agricultural sciences. 3 hours lecture, 3 hours lab.
Prerequisite: CHE 104 with a grade of C or better.
- CHE 304 Biochemistry and Natural Products (3) i (odd numbered years beginning fall 1979)**
Chemistry of biologically important compounds, special emphasis on their relationship to agriculture. 3 hours lecture.
Prerequisite: CHE 204.
- CHE 310 Organic Chemistry I (3) i, ii**
Methods of synthesis of organic compounds, reaction paths, chemical bonding and geometry of organic molecules; aliphatic and aromatic compounds studies concurrently. 3 hours lecture.
Prerequisite: CHE 120 with a grade of C or better.
- CHE 311 Organic Chemistry Laboratory I (2) i, ii**
Laboratory course to accompany CHE 310. 6 hours lab.
Prerequisite: CHE 310 concurrently.
- CHE 312 Organic Chemistry II (3) ii**
Continuation of CHE 310. 3 hours lecture.
Prerequisite: CHE 310 with a grade of C or better.
- CHE 313 Organic Chemistry II (2) ii**
Laboratory course to accompany CHE 312. 6 hours lab.
Prerequisite: CHE 312 concurrently.
- CHE 321 Quantitative Analysis (4) i**
Analytical chemistry; gravimetric, volumetric, colorimetric, and electro-analytical determinations. The instrumental approach to analysis is emphasized. 2 hours lecture, 6 hours lab.
Prerequisite: CHE 120 with a grade of C or better.
- CHE 326 Instrumental Analysis (4) ii**
Theories and methods in modern instrumental analysis. 2 hours lecture, 6 hours lab.
Prerequisite: CHE 321 with a grade of C or better.
- CHE 341 Advanced Inorganic Chemistry (3) i (even numbered years)**
Modern concepts of inorganic chemistry, encompassing chemical bonding theories, acid-base theories, mechanisms of inorganic chemistry, symmetry in molecules, inorganic thermodynamics and atomic and molecular structure. 3 hours lecture.
Prerequisite: CHE 120 with a grade of C or better.
- CHE 370 Biochemistry (4) ii**
Chemistry of biological compounds, metabolism and biochemical genetics. 3 hours lecture, 3 hours lab.
Prerequisite: CHE 310 and 311 with a grade of C or better.
- CHE 431 Physical Chemistry I (3) i**
Thermodynamics, properties of solutions, phase equilibria, chemical equilibrium and conductivity. 3 hours lecture.
Prerequisite: CHE 311, 321 with a grade of C or better; PHY 210; MAT 209 (MAT 209 may be taken concurrently).
- CHE 432 Physical Chemistry Laboratory I (2) i**
Laboratory course to accompany CHE 431. 6 hours lab.
Prerequisite: Concurrent enrollment in CHE 431.
- CHE 433 Physical Chemistry II (3) ii**
A continuation of CHE 431; Electrochemistry, chemical kinetics, absorption and emission spectroscopy and introduction to quantum chemistry. 3 hours lecture.
Prerequisite: CHE 431 with a grade of C or better.
- CHE 434 Physical Chemistry Laboratory II (2) ii**
Laboratory course to accompany CHE 433. 6 hours lab.
Prerequisite: Concurrent enrollment in CHE 433.

CHE 440 Advanced Organic Chemistry (3) ii (even numbered years)

Modern mechanistic interpretations of the relations between structure and reactivity; the roles of reactive intermediates such as carbonium ions, carbanions, carbenes and radicals in reactions; molecular orbital theory, Hammett acid-base theory; factors which influence the equilibria and reaction mechanisms of organic molecules.

Prerequisite: CHE 310, 312, 431 or consent of instructor.

CHE 450 Independent Study in Chemistry (1-5) i, ii
Investigation of selected problems or topics on an individual conference basis.

Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.

CHE 465 Chemistry Teaching: Methods and Techniques (2) ii

Modern techniques in teaching high school chemistry: use of audio-visual equipment, project approach, lesson planning and difficulties in chemistry instruction at the secondary level.

Prerequisite: Senior standing.

CHE 490 Research in Chemistry (1-3) i, ii

Original research on problems in various fields of chemistry. Hours arranged.

Prerequisite: Consent of department chairman.

CHE 495 Seminar in Chemistry (1) i

Individual reports and group discussion on modern topics in chemistry.

Prerequisite: Senior standing or consent of instructor.

MEDICAL TECHNOLOGY

MTE 105 Introduction to Health Science (1) i

A survey of the various health fields; job descriptions, employment opportunities, educational requirements, personal qualifications. 1 hour lecture.

MTE 451 Medical Technology Internship (12) i

Practical training and theoretical instruction in all phases of medical laboratory work; microbiology, basal metabolism, blood banking, chemistry, cytology, hematology, histology, serology, and urinalysis.

Prerequisite: Completion of 94 hours course work as required for B.S. degree in Medical Technology.

MTE 452 Medical Technology Internship (12) ii

Continuation of MTE 451.

MTE 453 Medical Technology Internship (6) iii

Continuation of MTE 452.

Full internship program, including MTE 451, 452, and 453, is of twelve months duration in a hospital affiliated with Missouri Western State College and approved by the American Society of Clinical Pathologists.

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN CHEMISTRY**

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
ENG	104, 108, or 112	3
	General Studies II Elective	3
		<hr/>
		16

Spring Semester

CHE 120	General Chemistry II	5
MAT 108	Calculus II	5
ENG	108 or 112	3
	General Studies II Elective	3
		<hr/>
		16

Sophomore Year

Fall Semester

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab. I	2
MAT 209	Calculus III	5
GER 102	Elementary German I	3
	General Studies II Elective	3
		<hr/>
		16

Spring Semester

CHE 312	Organic Chemistry II	3
CHE 313	Organic Chemistry Lab. II	2
GER 112	Elementary German II	3
SPH	104, 105, or 106	3
PED 101	Physical Education Concepts	1
	General Studies III Elective	3
		<hr/>
		15

Junior Year

Fall Semester

CHE 321	Quantitative Analysis	4
GER 202	Intermediate German	3
	Electives	3
PHY 110	College Physics I	5
	P.E. Activity	1
		<hr/>
		16

Spring Semester

CHE 326	Instrumental Analysis	4
	German Elective	3
	General Studies III Elective	3
	Electives	6
		<hr/>
		16

Senior Year

Fall Semester

CHE 431	Physical Chemistry I	3
CHE 432	Physical Chemistry Lab. II	2
CHE 495	Seminar in Chemistry	1
	Electives	6
	P.E. Activity	2
		<hr/>
		14

Spring Semester

CHE 370	Biochemistry	4
	Electives	11
		<hr/>
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN CHEMISTRY**

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
ENG	104, 108 or 112	3
	General Studies II Elective	3
		<hr/>
		16

Spring Semester

CHE 120	General Chemistry II	5
	General Studies II	5
ENG	English 108 or 112	3
	General Studies II Elective	3
		<hr/>
		16

Sophomore Year

Fall Semester

CHE 321	Quantitative Analysis	4
MAT 209	Calculus II	5
GER 102	Elementary German I	3
SPH	104, 105 or 106	3
	P.E. Concepts	1
		<hr/>
		16

Spring Semester

CHE 326	Instrumental Analysis	4
PHY 210	University Physics I	5
GER 112	Elementary German II	3
	General Studies II Elective	3
	P.E. Activity	1
		<hr/>
		16

Junior Year

Fall Semester

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab. I	2
CHE 341	Advanced Inorganic Chemistry	3
PHY 211	University Physics II	4
	Elective	3
	P.E. Activity	1
		<hr/>
		16

Spring Semester

CHE 312	Organic Chemistry II	3
CHE 313	Organic Chemistry Lab. II	2
PHY 212	University Physics III	3
CSC 188	Fortran Language	3
ENG 210	Approaches to Literature	3
	P.E. Activity	1
		<hr/>
		15

Senior Year

Fall Semester

CHE 431	Physical Chemistry I	3
CHE 432	Physical Chemistry Lab. I	2
CHE 495	Seminar in Chemistry	1
	Elective	6
CHE 490	Research in Chemistry	3
		<hr/>
		15

Spring Semester

CHE 370	Biochemistry	4
	Elective	4
CHE 433	Physical Chemistry II	3
CHE 434	Physical Chemistry Lab. II	2
CHE 440	Advanced Organic Chemistry	3
		<hr/>
		14

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN MEDICAL TECHNOLOGY**

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
BIO 111	General Biology I	3
ENG	104, 108, or 112	3
	General Studies II Elective	3
MTE 105	Introduction to the Health Sciences	1
PED 101	P.E. Concepts	1
		<hr/>
		16

Spring Semester

CHE 120	General Chemistry II	5
MAT 106	Trigonometry	2
ENG	108 or 112	3
MAT 105	College Algebra	3
	P.E. Activity	1
	Elective	1
		<hr/>
		15

Sophomore Year

Fall Semester

CHE 321	Quantitative Analysis	4
BIO 312	Genetic Biology	4
	General Studies II Elective	3
SPH	104, 105, or 106	3
	P.E. Activity	1
		<hr/>
		15

Spring Semester

116	CHE 326	Instrumental Analysis	4
	BIO 311	Animal Physiology	4
	PHY 101	Concepts and Principles of Physics	4
		General Studies III Elective	3
		P.E. Activity	1
			<hr/>
			16

Junior Year

Fall Semester

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab I	2
BIO 399	Microbiology	5
	General Studies II Elective	3
	General Studies III Elective	3
		<hr/>
		16

Spring Semester

CHE 370	Biochemistry	4
	General Studies III Elective	3
	Elective	4
BIO 400	Microbiology of Human Disease	5
		<hr/>
		16

Senior Year

Taken at an affiliated hospital

MTE 451	Medical Technology Internship I	12
MTE 452	Medical Technology Internship II	12
MTE 453	Medical Technology Internship III	6
		<hr/>

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN NATURAL SCIENCE
(CHEMISTRY EMPHASIS)**

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
BIO 111	General Biology I	3
ENG	104, 108 or 112	3
		<hr/>
		16

Spring Semester

CHE 120	General Chemistry II	5
BIO 112	General Biology II	3
	General Studies II Elective	3
ENG	108 or 112	3
PED 101	P.E. Concepts	1
		<hr/>
		15

Sophomore Year

Fall Semester

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab. I	2
BIO 399	Microbiology	5
	General Studies II Elective	3
		<hr/>
		13

Spring Semester

MAT 201	Elementary Statistics	3
CHE 370	Biochemistry	4
BIO 311	Animal Physiology	4
	General Studies II Elective	3
	P.E. Activity	1
		<hr/>
		15

Junior Year

Fall Semester

CHE 321	Quantitative Analysis	4
PHY 110	College Physics I	5
	General Studies III Elective	3
SPH	Speech 104, 105 or 106	3
	P.E. Activity	1
		<hr/>
		16

Spring Semester

CHE 326	Instrumental Analysis	4
PHY 111	College Physics II	3
BIO 312	Genetic Biology	4
	Elective	3
	P.E. Activity	1
		<hr/>
		15

Senior Year

Fall Semester

BIO 310	Cellular Biology	4
CHE 495	Seminar in Chemistry	1
CHE 341	Advanced Inorganic Chemistry	3
	General Studies III Elective	3
	Electives	4
		<hr/>
		15

Spring Semester

	General Studies III Elective	3
	Electives	13
		<hr/>
		16

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN CHEMISTRY**

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
ENG	104, 108 or 112	3
	General Studies II Elective	3
	<hr/>	
		16

Spring Semester

CHE 120	General Chemistry II	5
MAT 108	Calculus II	5
ENG	108 or 112	3
	General Studies II Elective	3
	<hr/>	
		16

Sophomore Year

Fall Semester

CHE 321	Quantitative Analysis.....	4
MAT 209	Calculus III	5
SHP	104, 105 or 106	3
PED 101	P.E. Concepts.....	1
	General Studies III Elective	3
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		16

Spring Semester

SED 202	Intro. to Sec. Ed.....	2
SED 203	Part. in Sec. Teach. I	1
CHE 326	Instrumental Analysis.....	4
	General Studies III Elective	6
	General Studies II Elective	3
	P.E. Activity	1
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		17

Junior Year

Fall Semester

CHE 310	Organic Chemistry I.....	3
CHE 311	Organic Chemistry Lab. I.....	2
CHE 341	Advanced Inorganic Chemistry	3
PHY 110	College Physics I.....	5
	P.E. Activity.....	1
	Elective.....	3
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		17

Spring Semester

PHY 111	College Physics II.....	3
CHE 465	Chemistry Teaching: Methods.....	2
	Electives	3
	P.E. Activity.....	1
SED 303	Exp. in Sec. Teaching II.....	3
SED 304	Psy. in Sec. Teaching.....	4
	<hr/>	
		16

Senior Year

Fall Semester

CHE 431	Physical Chemistry I.....	3
CHE 432	Physical Chemistry Lab. I.....	2
CHE 495	Seminar in Chemistry.....	1
	Elective	8
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		14

Spring Semester

SED 404	Foundations in Sec. Ed.....	3
SED 407	Psychology and Ed. of the Ex. Student	2
SED 409	Sec. Stu. Teaching III.....	9
	<hr/>	
		14

department of ENGLISH
and MODERN LANGUAGES

Dr. G. Matthews — chairman	
Dr. J. Castellani	Dr. C. McCay
W. Chellin	M. McIntosh
M. Drummond	M. Magoon
Dr. F. Flanagan	R. Miller
M. Frick	E. Sawin
Dr. R. Galloway	Dr. R. Shell
Dr. J. Gilgun	I. Sparks
R. Hoffman	R. Taylor

The department of English and Modern Languages is organized to meet the needs of all students. Through its participation in the general studies program, the department offers work in composition, basic literary study, and language; through the Learning Skills Center; it provides opportunities for improvement in basic skills and habits of study. Major and minor sequences may include work in literature, writing, and language. In its endeavors, the department works toward a fourfold goal: the improvement of writ-

ing; the development of skill in organizing and expressing ideas and in the interpretations of ideas expressed by others; the development and refinement of habits of critical and perceptive reading; and the increase of language awareness and precision. In all its pursuits, the department works toward the general end of encouraging the student to grow in self-knowledge and the knowledge of others through its emphasis on the humane and liberal characteristics of its offerings.

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BACHELOR OF ARTS DEGREE
(Requires 16 credit hours in a single foreign language)

MAJOR IN ENGLISH

In addition to at least 9 credit hours of English included in the general studies program, a minimum of 36 credit hours of course work in English must be completed. The following specific courses are required: ENG 224, 332, 310 or 312 plus an additional 3 hour course in English literature; ENG 360 or 362 plus an additional 3 hour course in American literature; ENG 368 and 486. An additional 12 credit hours must be selected from English courses numbered above 300. The student and his advisor must plan a program that includes some work beyond that encountered in basic survey courses in fiction, drama, and poetry, and at least one course providing a major emphasis in each of the following periods: pre-eighteenth century, eighteenth century, nineteenth century, and twentieth century. Although the appropriate English-Education courses

may be presented as part of a degree program, they may not be used to fulfill the requirements listed above.

MINOR IN ENGLISH

In addition to at least 9 hours of English from the general studies program, a minimum of 21 credit hours of English must be completed. Specific requirements are ENG 224; 310 or 312, plus an additional course in English literature; ENG 360 or 362, plus an additional course in American literature; 368, and 3 hours elected form courses numbered above 300 (excluding courses in English-Education).

BACHELOR OF SCIENCE IN
EDUCATION DEGREE

MAJOR IN ENGLISH

In addition to general studies requirements, a minimum of 32 hours of course work must be completed. The following specific courses are required: ENG 224, 234, 310, 312, plus an additional course in English literature; ENG 360 or 362 plus an additional course in American literature.

ENG 368, 400, 465, 486; EED 311. An additional 6 credit hours must be selected from English courses numbered above 300. Courses should be selected so that the student's program includes work in each of the major genres and significant selections from major literary periods.

MINOR IN ENGLISH

Since the bachelor of science minor is specifically offered for the purpose of preparing the student for a second teaching field, it is structured to meet certification requirements and basic needs of teachers of English in grades seven through twelve. In addition to general studies courses, the following specific courses are required: ENG 224; 6 hours of English literature including ENG 310 or 312; 6 hours of American literature, including 360 or 362; 400; 234 and EED 311. The minor must total 24 hours.

MINOR IN JOURNALISM

The minor in journalism requires the completion of the following program for a total of 24 credit hours: JOU 102, 202, 210 or 212, 304, 306, 310 or 312, 314, plus 5 credit hours of journalism electives. ENG 224 and 338 are acceptable electives in the journalism minor. Journalism students are encouraged to increase their typing proficiency and learn to handle a camera as soon as possible.

ENGLISH COMPOSITION AND LANGUAGE

ENG 100 Basic Written Communication Skills (3) i, ii

Instruction in reading and writing open to any student, but mandatory as first course for students scoring below 14 on ACT English test. Does not fulfill the English Composition requirement for baccalaureate degree.

ENG 104 Composition and Rhetoric (3) i, ii, iii

Instruction and practice in reading and writing, with emphasis given to expository prose.

ENG 108 Composition and Rhetoric II (3) i, ii, iii

Instruction in reading various literary genres and continued practice in writing.
Prerequisite: ENG 104.

ENG 112 Honors Composition and Rhetoric (3) i

An enriched course open to students with ACT English scores above 23. This course fulfills the English communications requirement for regularly enrolled students.

MINOR IN FRENCH

The minor in French requires the completion of the following program for a total of 24 credit hours: FRE 102, 112, 202, 212, 300 (two semesters).

MINOR IN GERMAN

The minor in German requires the completion of the following program for a total of 24 credit hours: GER 102, 112, 202, 212, 300 (two semesters).

MINOR IN SPANISH

The minor in Spanish requires the completion of the following program for a total of 24 credit hours: SPA 102, 112, 202, 212, 300 (two semesters).

TEACHER CERTIFICATION IN FOREIGN LANGUAGE

State certification to teach foreign language in grades K-12 in Missouri requires 30 credit hours in foreign language, including 24 credit hours in the language taught, or 24 credit hours in one language plus two or more high school units in a foreign language.

State certification to teach foreign language in grades K-9 in Missouri requires 21 credit hours in foreign language, including 18 credit hours in the language taught, or 18 credit hours plus 2 or more high school units in a foreign language.

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ENG 200 College Learning Skills Workshop (3) i, ii

An intensive 12-week skills course in reading, writing, and studying. For freshman and upper classmen.

ENG 224 Advanced Composition and Literature (3) i

Required for English majors and minors, this course offers systematic instruction in writing about literature.
Prerequisite: ENG 108 or 112.

ENG 332 History of the English Language (3) ii (odd numbered years)

Growth and structure of the English language.
Prerequisite: Sophomore standing.

ENG 338 Creative Writing (3) i

Intensive practice in writing poetry, fiction, or drama, in accordance with the interests of the student. May be repeated for a maximum total of 6 credit hours.
Prerequisite: ENG 108 or 112.

ENGLISH EDUCATION

English Education courses may not be used to fulfill any requirement for the

Bachelor of Arts degree with a major in English.

ENG 234 Modern English Grammar (3) i
A systematic study of traditional, structural, and transformational grammar. Designed to meet the needs of the elementary and secondary teacher.
Prerequisite: ENG 108 or 112.

ENG 300 Children's Literature (3) i, ii, iii
Children's books; the use of literature with children. Does not fulfill any requirement for the major in English.
Prerequisite: ENG 108 or 112.

ENG 400 Literature for Adolescents (3) ii
Contemporary and traditional materials suitable for middle and secondary schools; standards of evaluation; listings and reliable reviews of appropriate books.
Prerequisite: Junior standing.

ENG 465 English Teaching: Methods and Materials (2) i
Techniques, materials, and resources used in the English curriculum in the secondary schools.
Prerequisite: Junior standing.

ENGLISH LITERATURE

ENG 210 Approaches to Literature (3) i, ii, iii
A general studies course providing practice in reading poetry, prose fiction, and drama. Various thematic approaches may be offered. Primarily for the non-English major.
Prerequisite: ENG 108 or 112, or consent of instructor.

ENG 220 Classical Backgrounds for Literature (3) ii
Interdisciplinary in content, this course attempts to help the student establish a foundation for meaningful study of English literature. Recommended for majors but open to all students.
Prerequisite: ENG 108, or 112, or consent of instructor.

ENG 248 Approaches To Film Literature (3) ii
Themes, ideas, and techniques in film.
Prerequisite: ENG 108 or 112.

ENG 310 English Literature (3) i
Beowulf to 1785.
Prerequisite: ENG 108 or 112.

ENG 312 English Literature (3) ii
A continuation of English 310; 1785 to 1930.
Prerequisite: ENG 108 or 112.

ENG 360 American Literature to 1865 (3) i
American literature from Bradford to Lincoln.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 362 American Literature since 1865 (3) ii
American literature from Whitman to the present.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 368 Shakespeare (3) i
Shakespearean drama.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 370 Medieval Literature (3) i (odd numbered years)
England's medieval culture and literature; special emphasis on Chaucer.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 372 Seventeenth Century English Literature (3) ii (even numbered years)
Poetry and prose of the seventeenth century, including Milton.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 374 Eighteenth Century English Literature (3) ii (odd numbered years)
The major literary movements and writers of the eighteenth century.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 380 Romantic Poetry and Prose (3) i (even numbered years)
Reading and criticism of representative works of the period.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 382 Victorian Literature (3) i (odd numbered years)
Reading and criticism of the works of major poets and prose writers of the period.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 390 Modern European Literature (3) i (even numbered years)
Study of translations of major works in various genres.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 420 The American Short Story (3) ii (odd numbered years)
Representative selections.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 422 The American Novel (3) ii (even numbered years)
A study of selected works of the Nineteenth and Twentieth Centuries.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 426 Contemporary Poetry (3) i (odd numbered years)
Poetry from 1945 to the present.
Prerequisite: ENG 210 or 220, or consent of instructor.

ENG 450 Independent Study in English (1-5) i, ii, iii
Independent research on a topic or problem which the student wishes to pursue in depth.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.

ENG 468 The English Novel: Defoe to Austen (3) i (odd numbered years)
The beginnings of the English Novel in the eighteenth century, its history as major literary genre and its development into various modes from Defoe to Austen.
Prerequisite: ENG 210 or 220, or consent of instructor.

- ENG 470 The English Novel: Scott to the Present (3) i (even numbered years)**
The development of the English novel from the Romantic period, through the Victorian Age to the present.
Prerequisite: ENG 210 or 220, or consent of instructor.
- ENG 478 Modern Drama (3) ii (even numbered years)**
Ibsen to the present.
Prerequisite: ENG 210 or 220, or consent of instructor.
- ENG 486 Theory and Practice of Criticism (3) ii**
History of criticism, and practice in the application of theory.
Prerequisite: ENG 210 or 220, or consent of instructor.
- ENG 488 Seminar in English (1-4) i, ii**
Study of selected topics or problems in English. Open to advanced juniors or seniors with the consent of the instructor and department chairman.

JOURNALISM

Note: A maximum total of 8 credit hours may be earned in combinations of journalism laboratories, JOU 210, 212, 310, 312.

- JOU 102 Principles of Journalism and Mass Media (3) i**
Analysis of the communications process: the role of newspapers, magazines, radio, television; their impact on contemporary society.
- JOU 104 Photography Fundamentals (3) i (odd numbered years)**
Basic techniques of picture-taking, film-developing and printing. Students are required to provide their own camera equipment, film and printing paper.
- JOU 202 Basic News Reporting (3) i**
Introduction to journalistic practices; gathering information, taking notes, interviewing, writing; basic journalistic style and story structures; practice in copy editing.
- JOU 210 Journalism Laboratory: Newspaper Production (2) i, ii**
Supervised experience in field reporting and techniques used in producing a newspaper. Students work on the campus newspaper. May be repeated for credit a maximum of 3 semesters.
Prerequisite: JOU 202 or permission of instructor.
- JOU 212 Journalism Laboratory: Specialized Publication Production (2) i, ii**
Supervised experience in field reporting and techniques used in producing such specialized publications as the campus yearbook and business or industrial house organs. May be repeated for credit a maximum of 3 semesters.
- JOU 302 Advanced Reporting: Opinion Writing (3) ii**
Writing editorials and expanded features: interpretive and investigative reporting.
Prerequisite: JOU 202 or permission of instructor.

- JOU 304 Photojournalism (3) ii (even numbered years)**
Pictures as reportorial or interpretive statements of human events; photo-scripts, outlines, photo essays. **Prerequisite:** JOU 102 and 202 or permission of the instructor.
- JOU 306 Newspaper & Magazine Production Management (3) ii (odd numbered years)**
Principles of publication management: determining editorial objectives, identifying publics, defining content and physical format; personnel and production management; packaging the news for accuracy, clarity, and effective communication. **Prerequisites:** JOU 202, 210 or 212, or permission of the instructor.
- JOU 310 Journalism Laboratory: Newspaper Production Management (2) i, ii**
Supervised experience in managerial positions on the campus newspaper: application of the principles of professional journalism.
Prerequisites: JOU 210 and 306 (may be taken concurrently) or permission of the instructor.
- JOU 312 Journalism Laboratory: Specialized Publications Production Management (2) i, ii.**
Supervised experience in managerial positions on the campus yearbook or on business or industrial house organs: application of principles of professional journalism.
Prerequisite: JOU 212 and 306 (may be taken concurrently) or permission of the instructor.
- JOU 314 Special Topics in Journalism (3) i (even numbered years).**
An advanced course in journalism. Topics will vary from semester to semester. May be repeated for credit.
Prerequisite: Consent of instructor.

MODERN LANGAUGES

A study with extensive background in a language is encouraged to attempt credit by examination. Two years of high school study in a language should provide background for testing out of the first semester course, and three to four years of study should enable the student to test out of the second basic course.

FRENCH

- FRE 102 Elementary French (4) i**
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.
- FRE 112 Elementary French II (4) ii**
Continuation of FRE 102. 3 hours lecture, 2 hours lab.
Prerequisite: FRE 102 or equivalent.
- FRE 202 Intermediate French (4) i**
Continuation of French 112; completion of essential grammar. 3 hours lecture, 2 hours lab.

Prerequisite: FRE 112 or consent of instructor.

- FRE 212 French Conversation and Composition (4) ii**
Refinement of writing and speaking skills through review of structural patterns, mastery of idiomatic usages and study of vocabulary distinctions. 3 hours lecture, 2 hours lab.
Prerequisite: FRE 202 or consent of instructor.

- FRE 300 Topics in French (4) i, ii**
An advanced course in French literature, language, or culture. Topics will vary from semester to semester. May be repeated for credit (with permission of instructor). 3 hrs lecture and 2 hrs lab, or 4 hrs lecture.
Prerequisite: FRE 212 or consent of instructor.

GERMAN

- GER 102 Elementary German I (4) i**
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.
- GER 112 Elementary German II (4) ii**
Continuation of GER 102. 3 hours lecture, 2 hours lab.
Prerequisite: GER 102 or equivalent.
- GER 202 Intermediate German (4) i**
Continuation of GER 112; completion of essential grammar. 3 hours lecture, 2 hours lab.
Prerequisite: GER 112 or consent of instructor.
- GER 212 German Conversation and Composition (4) ii**
Use of short literary works as a basis for conversation and short compositions. 3 hours lecture, 2 hours lab.

Prerequisite: GER 202 or consent of instructor.

- GER 300 Topics in German (4) i, ii**
An advanced course in German literature, language, or culture. Topics will vary from semester to semester. May be repeated for credit (with permission of instructor). 3 hrs. lecture and 2 hrs. lab, or 4 hrs. lecture.
Prerequisite: GER 212 or consent of instructor.

SPANISH

- SPA 102 Elementary Spanish I (4) i**
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.
- SPA 112 Elementary Spanish II (4) ii**
Continuation of SPA 102. 3 hours lecture, 2 hours lab.
Prerequisite: SPA 102 or equivalent.
- SPA 202 Intermediate Spanish (4) i**
Continuation of SPA 112; completion of essential grammar. 3 hours lecture, 2 hours lab.
Prerequisite: SPA 112 or consent of instructor.
- SPA 212 Spanish Conversation and Composition (4) ii**
Conversations and written compositions based on textual materials as well as contemporary topics. 3 hours lecture, 2 hours lab.
Prerequisite: SPA 202 or consent of instructor.
- SPA 300 Topics in Spanish (4) i, ii**
An advanced course in Spanish literature, language, or culture. Topics will vary from semester to semester. May be repeated for credit (with permission of instructor). 3 hrs. lecture and 2 hrs. lab, or 4 hrs. lecture.
Prerequisite: SPA 212 or consent of instructor.

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN ENGLISH**

Freshman Year

Fall Semester

ENG 104	Eng. Comp.....	3
102	French, Spanish, or German	4
MAT 101	or higher.....	3
SPH	104, 105 or 106	3
PED 101	P.E. Concepts.....	1
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		14

Spring Semester

ENG 108	Eng. Comp.....	3
112	French, Spanish, or German	4
	General Studies IV Elective.....	5
	General Studies II Elective	3
	P.E. Activity	1
		—
		16

Sophomore Year

Fall Semester

202	French, Spanish, or German	4
	General Studies III Elective.....	3
ENG 224	Adv. Comp.....	3
ENG 310	Eng. Lit. or Eng. Lit. Elective	3
	General Studies II Elective	3
	P.E. Activity	1
		—
		17

Spring Semester

212	French, Spanish, or German	4
	General Studies III Elective.....	3
ENG 220	Classical Backgrounds	3
ENG 312	Eng. Lit. or Eng. Lit. Elective	3
	Elective or Minor	3
		—
		16

Junior Year

Fall Semester

ENG 368	Am. or Eng. Lit. Elective	3
	Shakespeare.....	3
	English Elective	3
	General Studies IV Elective.....	4
	Elective or Minor	3
		—
		16

Spring Semester

ENG 332	Hist. of Eng. Lange.....	3
	Am. Lit. Elective	3
	Am. Hist. or Nat'l Gov't	3
	Eng. Electives or Minor	6
		—
		15

Senior Year

Fall Semester

Electives or Minor.....	9
English Electives.....	6
	—
	15

Spring Semester

ENG 486	Theory, Prac. Critic.....	3
	English Elective	3
	Electives or Minor.....	9
		—
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN ENGLISH**

Freshman Year

Fall Semester

ENG 104	English Comp.	3
MAT 105	College Algebra	3
SPH	104, 105, or 106	3
	Social Science or Nat'l Gov't	3
PED 101	P.E. Concepts.....	1
PSY 101	General Psychology	3
		—
		16

Spring Semester

ENG 108	English Comp.	3
	General Studies IV elective.....	5
	General Studies III elective.....	3
	General Studies II elective	3
	P.E. Activity	1
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		15

Sophomore Year

Fall Semester

ENG 224	Advanced Comp.	3
ENG 234	Modern English Grammar	3
ENG 310	English Lit. (or elective)	3
	English Elective	3
	General Studies II elective.....	3
	P.E. Activity	1
		—
		16

Spring Semester

SED 202	Introduction to Secondary Educ.....	2
SED 203	Participation in Secondary Teaching I	1
ENG 220	Classical Backgrounds	3
ENG 312	English Lit. (or elective)	3
	General Studies IV elective.....	4
	P.E. Activity	1
	Elective	1
		—
		15

Junior Year
Fall Semester

SED 303	Exp. in Secondary Teaching II	3
SED 304	Psy. in Secondary Teaching	4
ENG 360	Am. Lit. (or elective)	3
	Electives or Minor	6
	—	16

Spring Semester

ENG 362	Am. Lit. (or elective)	3
ENG 400	Adol. Literature	3
ENG 486	Theory, Prac. Critic.	3
	English Elective	3
EED 311	Teaching of Reading	3
	—	15

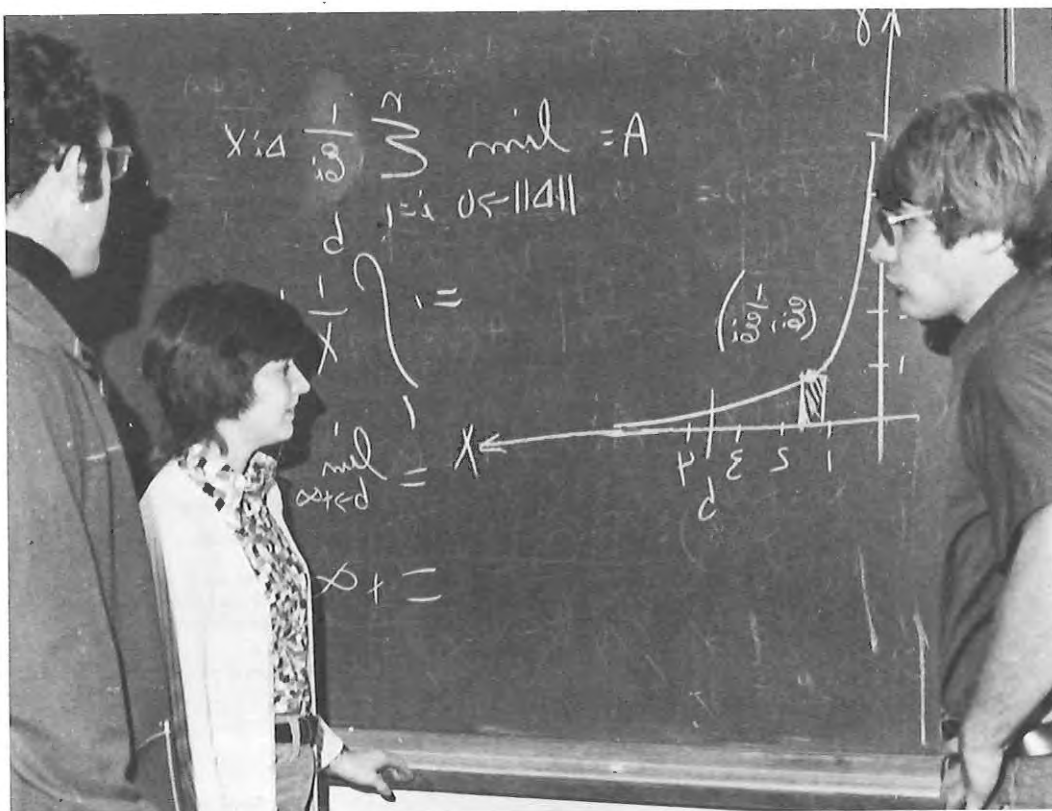
Senior Year
Fall Semester

ENG 368	Shakespeare	3
ENG 465	English Teaching	2
	Electives or Minor	12
	—	17

Spring Semester

SED 404	Foundations in Secondary Educ.	3
SED 407	Psychology & Ed. of the Exceptional Student	2
SED 409	Secondary Student Teaching III	9
	—	14

Students are encouraged, though not require to take eight or more electives in foreign language.



MATHEMATICAL SCIENCES

Dr. K. Klose — chairman

G. Bishop
S. Hinrichs
B. Huston
D. John
K. Johnson
E. Johnston
B. Kelley

Dr. K. Lee
Dr. J. Leech
L. Parmalee
L. Schmitz, Jr.
Dr. T. Scott
J. Wilkerson

The department of Mathematical Sciences contributes to the liberal education of all students and, in addition, provides specialized programs in computer science, data processing, mathematics and physics

for those students who desire a more thorough preparation in these areas for jobs in business, government, industry and educational institutions.

BACHELOR OF ARTS DEGREE

(Requires 16 credit hours in a single foreign language)

MAJOR IN MATHEMATICS

Courses in mathematics must total 36 credit hours; courses in physics must total 11 credit hours. The following specific courses are required: MAT 107, 108, 209, 305, 312, 316, 420, 430 plus an additional 6 credit hours of upper division mathematics electives; PHY 210, 211, 212.

BACHELOR OF SCIENCE DEGREE

MAJOR IN COMPUTER SCIENCE

The major in Computer Science requires completion of the following program for a total of 54 credit hours: CSC 182, 188, 240 or 255, 245, 284, 286; MAT 107, 108, 201, 209, 305, 312, 417, plus 9 credit hours of Computer Science electives (excluding CSC 250).

MAJOR IN DATA PROCESSING

The major in Data Processing requires the completion of the following program for a total of 54 credit hours: CSC 182, 188, 240, 245, 284, 286; plus 12 credit hours of Computer Science electives (excluding CSC 250); MAT 201 or MGT 210; and an approved program of 21 credit hours in a related area. (The student must meet with the Computer Science faculty to design and obtain approval for this program.)

MAJOR IN MATHEMATICS

Courses in mathematics must total 36 credit hours; courses in physics must total 11 credit hours; courses in computer science must total 6 credit hours. The following specific courses are required: MAT 107, 108, 209, 305, 312, 316, 420, 430, plus an additional 6 credit hours of upper division mathematics electives; PHY 210, 211, 212; CSC 188, plus an additional 3 credit hours of computer science electives (excluding CSC 182).

BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR IN MATHEMATICS

Courses in mathematics must total 35 credit hours. The following specific courses are required: MAT 107, 108, 209, 305, 312, 315, 316, 420, 430, 465.

MINORS

MINOR IN COMPUTER SCIENCE

The minor in Computer Science requires the completion of the following program for a total of 22 credit hours: MAT 107, 108; CSC 188, 284; plus 6-credit hours of Computer Science electives (excluding CSC 182).

MINOR IN DATA PROCESSING

The minor in Data Processing requires the completion of the following program for

a total of 21 credit hours; CSC 182, 240, 245, and 345; ACC 230; plus 6 credit hours of Computer Science electives.

MINOR IN MATHEMATICS

Courses in Mathematics must total 21 credit hours. The following specific courses are required: MAT 107 and 108

COMPUTER SCIENCE

- CSC 182 Introduction to Data Processing (3) i, ii, iii**
Overview of data processing and computer concepts as an area of general knowledge for the informed individual.
- CSC 188 Introduction to FORTRAN IV Programming (3) i, ii**
Structure and facilities of FORTRAN (FORMula TRANslation) programming.
Prerequisite: CSC 182 and MAT 105, or equivalent, or consent of instructor.
- CSC 240 Introduction to RPG Programming (3) i, ii**
Structure and facilities of RPG (Report Program Generator) programming.
Prerequisite: CSC 182.
- CSC 245 Introduction to COBOL Programming (3) i, ii**
Structure and facilities of COBOL (COmmon Business Oriented Language) programming.
Prerequisite: CSC 182.
- 126 **CSC 250 Computer Operations Practicum (3) ii**
Participation in computer operations in a local data processing installation. This course will not be accepted as a computer science elective for degree programs. Application for placement must be made at least 9 weeks before registration for this course.
Prerequisite: Sophomore standing and completion of at least one programming language course.
- CSC 255 Introduction to PL/I Programming (3) i**
Structure and facilities of PL/I (Programing Language/I)
Prerequisite: CSC 188 or 245.
- CSC 284 Symbolic Assembler Language I (3) i, ii**
Assembly language level programming: Symbolic machine instructions, dumps, assembly language instructions, subprogram linkage, and vendor supplied subprograms.
Prerequisite: CSC 188.
- CSC 286 Computer and Programming Systems (3) i, ii**
An introduction to machine organization, programming and operating systems.
Prerequisite: CSC 284.
- CSC 310 Character Processing with FORTRAN (3) i (odd numbered years)**
Study of subprograms designed to manipulate alphanumeric characters.
Prerequisite: CSC 188, with grade of C or better.
- CSC 345 Advanced COBOL Programming (3) i, ii**
Continuation of CSC 245; table handling, error-routine handling, tape processing, sequential and indexed-sequential disk

plus elective courses in Mathematics numbered 200 or higher.

MINOR IN PHYSICS

Courses in Physics must total 19 credit hours. The following specific courses are required: PHY 210, 211, 212, 310, 411.

processing, SORT AND REPORT WRITER features.

Prerequisite: CSC 245, with grade of C or better.

- CSC 370 Data Structures (3) i (even numbered years)**
Organization of data files, hierarchies of storage, sorting, searching, cross referencing, retrieval of information from files.
Prerequisite: CSC 188 with grade of C or better.

- CSC 384 Symbolic Assembler Language II (3) ii**
System Macro instructions, special-purpose instructions, macro definitions, conditional assembly, physical IOCS, and interrupt structure.
Prerequisite: CSC 284.

- CSC 388 Operations Research I (3) ii (even numbered years)**
Introduction to operations research techniques: linear programming, transportation and network theory, scheduling problems, inventory control, simulation.
Prerequisite: CSC 188 and MAT 201 or MGT 210.

- CSC 418 Operations Research II (3) i (odd numbered years)**
Queueing theory, game theory regression analysis, dynamic programming.
Prerequisite: CSC 388, MAT 107, 201.

- CSC 450 Application Projects (3) i, ii, iii**
The student will complete an independent project under the supervision of one of the members of the Computer Science faculty.
Prerequisite: Senior college standing and project approval *prior* to course registration.

- CSC 488 Data Processing Management (3) ii**
Basic management principles as applied to data processing. Assumes no prior management training.
Prerequisite: Senior college standing and one programming language course.

EARTH SCIENCE

- ESC 204 Introduction to Geology (4) i, ii**
Survey of physical and historical geology. 3 hours lecture, 2 hours lab.
- ESC 304 Environmental Earth Science (4) i, ii**
General survey of geology, meteorology, astronomy and oceanography. 3 hours lecture, 2 hours lab.
Prerequisite: 5 credit hours of Physical Science.

MATHEMATICS

- MAT 100 Basic Algebra (3) i, ii, iii**
A basic introduction to addition, subtraction, multiplication and division of real numbers and polynomials; linear equations; inequalities and graphs; systems of equations; factoring; exponents; radicals; quadratic equations. (Not open to the student who has credit in MAT 105 or above).
- MAT 101 Fundamental Concepts of Mathematics (3) i, ii, iii**
Tables and graphs, consumer mathematics, sets and logic probability, statistics, metric measure. (Not open to the student who has credit in MAT 107) *or above?*
- MAT 105 College Algebra (3) i, ii, iii**
Quadratic systems, exponents, radicals, ratio, proportion, variation, the binomial theorem, progressions, inequalities, permutations, and combinations. *Logarithms?*
Prerequisite: Two units of high school algebra or grade of C or better in MAT 100 or the equivalent. (Not open to the student who has credit in MAT 107).
- MAT 106 Trigonometry (2) i, ii, iii**
Trigonometric functions, trigonometric identities, trigonometric equations, logarithms, solution of triangles, inverse trigonometric functions.
Prerequisite: MAT 100 or the equivalent. (Not open to the student who has credit in MAT 107).
- MAT 107 Calculus with Analytic Geometry I (5) i, ii, iii**
Plane analytic geometry, differential calculus, and integral calculus.
Prerequisite: Grade of C or better in MAT 105 and 106 or the equivalent.
- MAT 108 Calculus with Analytic Geometry II (5) i, ii**
A continuation of MAT 107 with selected topics from analytic geometry and calculus.
Prerequisite: Grade of C or better in MAT 107 or the equivalent.
- MAT 201 Elementary Statistics (3) i, ii, iii**
A basic course for students in natural sciences, the behavioral sciences, and social sciences; tabulation of data, graphic representation, measures of central tendency and dispersion, probability, types of distributions, sampling, hypothesis testing, elementary aspects of correlation.
Prerequisite: MAT 100 or the equivalent.
- MAT 204 Applied Calculus (5) ii**
Functions; limits; the derivative; applications of the derivative; the integral; applications of the integral.
Prerequisite: MAT 105 and 106 or the equivalent. (Not open to the student who has credit in MAT 108).
- MAT 209 Calculus with Analytic Geometry III (5) i, ii**
Infinite series, vectors, solid analytic geometry, partial differentiation, and multiple integrals.
Prerequisite: Grade of C or better in MAT 108 or the equivalent.
- MAT 300 Mathematics for Elementary Teachers I (3) i, ii, iii**
A basic course in mathematics; emphasis on structure, meanings, relationships, and logical reasoning in elementary mathematics.
Prerequisite: MAT 101 or the equivalent. (Not open to major or minor in mathematics).
- MAT 305 Linear Algebra (3) i**
Vector spaces, linear transformations, matrix operations, determinants, matrix inversion, linear systems, eigenvalues, canonical forms.
Prerequisite: MAT 209 or the equivalent.
- MAT 312 Differential Equations (3) ii**
Common types of ordinary differential equations; differential operators; Laplace transforms; systems of differential equations; partial differential equations; Fourier series; applications.
Prerequisite: MAT 209 or the equivalent.
- MAT 315 Topics in Geometry (3) i**
Synthetic projective geometry; basic symbolic logic; mathematical systems and finite geometries; algebraic geometry; non-Euclidean geometry.
Prerequisite: MAT 209 or the equivalent.
- MAT 316 Abstract Algebra (3) ii**
Groups, rings, fields and vector spaces; definitions and fundamental theorems; homomorphisms and isomorphisms; polynomials and field extensions.
Prerequisite: MAT 209 or the equivalent.
- MAT 332 Mathematical Statistics (3) i (even numbered years)**
The theory of mathematical statistics; probability, distribution theory and point estimation.
Prerequisite: MAT 209 or the equivalent.
- MAT 400 Mathematics for Elementary Teachers II (4) i, ii, iii**
A continuation of MAT 300.
Prerequisite: MAT 300 or the equivalent. (Not open to major or minor in mathematics).
- MAT 417 Numerical Analysis (3) i**
The solution of algebraic and transcendental equations; finite differences; interpolation numerical differentiation and integration; numerical solutions of ordinary differential equations.
Prerequisite: MAT 312 and CSC 188 or the equivalent.
- MAT 420 Analysis I (3) i**
Sets and functions, sequences and series of real numbers, limits, metric spaces, limits in metric spaces, continuous functions on metric spaces.
Prerequisite: MAT 209 or the equivalent.
- MAT 430 Analysis II (3) ii**
Connectedness, compactness, the derivative, the Riemann integral, elementary transcendental functions, Taylor's theorem, sequences and series of functions.
Prerequisite: MAT 420 or the equivalent.
- MAT 450 Independent Study in Mathematics (1-5)**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a mini-

minimum 2.5 grade point average in his major field of study.

MAT 465 Mathematics Teaching: Methods and Materials (2) ii
Techniques, materials and resources used in the mathematics curriculum in secondary schools.
Prerequisite: SED 303 or the equivalent; candidate for Bachelor of Science in Education Degree.

MAT 470 Seminar in Mathematics (1)
Investigation and discussion of selected mathematical topics.
Prerequisite: MAT 209 or the equivalent.

PHYSICS

PHY 101 Concepts and Principles of Physics (4) i, ii, iii
A comprehensive treatment of the concepts and laws of physics using a non-mathematical approach. 3 hours lecture-demonstration, 2 hours laboratory.

PHY 104 Introduction to Astronomy (3) i, ii
A basic course in astronomy, mostly descriptive in nature; solar system, stellar astronomy, structure of galaxy and universe. 3 lecture hours per week.
Prerequisite: A basic knowledge of high school algebra and plane geometry.

PHY 110 College Physics I (5) i
Classical treatment of mechanics, waves, energy, electricity and magnetism. 4 hours lecture, 3 hours laboratory.
Prerequisite: MAT 105 or consent of instructor.

PHY 111 College Physics II (3) ii
Relativity, atomic physics and nuclear physics. 2 hours lecture, 3 hours laboratory.
Prerequisite: PHY 110 or consent of instructor.

PHY 210 University Physics I (4) ii
Calculus level mechanics, heat, and wave motion. 3 hours lecture, 3 hours laboratory.
Prerequisite: MAT 108 (may be taken concurrently) or consent of instructor.

PHY 211 University Physics II (4) i
Calculus level electricity, magnetism and optics. 3 hours lecture; 3 hours laboratory.
Prerequisite: PHY 210.

PHY 212 University Physics III (3) ii
Calculus level modern physics. 3 hours lecture.
Prerequisite: PHY 211.

PHY 310 Modern Physics (3) i (odd numbered years)
Selected topics dealing with the transition from classical physics to modern quantum physics. 3 hours lecture per week.
Prerequisite: PHY 212 and MAT 312 or consent of instructor.

PHY 411 Quantum Mechanics (5) ii (even numbered years)
Introduction to formal quantum mechanics; Schroedinger equation and introductory Heisenberg formulation. Laboratory in modern physics techniques. 3 hours lecture, 3 hours laboratory.
Prerequisite: PHY 310.

SAMPLE PROGRAM BACHELOR OF ARTS DEGREE MAJOR IN MATHEMATICS

Freshman Year

Fall Semester

MAT 107	Calculus I	5
ENG 104	Composition & Rhetoric I	3
	General Studies IV Elective	5
SPH	104, 105 or 106	3
		16

Spring Semester

MAT 108	Calculus II	5
PHY 210	University Physics I	4
ENG 108	Composition & Rhetoric II	3
	General Studies II Elective	3
		15

Sophomore Year

Fall Semester

MAT 209	Calculus III	5
PHY 211	University Physics II	4
PED 101	P.E. Concepts	1
	Elective	3
	Foreign Language	4
		17

Spring Semester

MAT 312	Differential Equations	3
PHY 212	University Physics III	3
ECO 260	Principles of Economics	3
	Foreign Language	4
	Elective	3
	P.E. Activity	1
		17

Junior Year

Fall Semester

MAT 305	Linear Algebra	3
	Humanities	3
	Advanced Math Elective	3
	Foreign Language	4
	Elective	3
	P.E. Activity	1
		17

Spring Semester

MAT 316	Abstract Algebra	3
PSY 101	General Psychology	3
	General Studies III Elective	3
	Foreign Language	4
	Elective	3
	P.E. Activity	1
		17

Senior Year

Fall Semester

MAT 420	Analysis I	3
	Advanced Math Elective.....	3
	Electives	9
		<hr/>
		15

Spring Semester

MAT 430	Analysis II	3
	General Studies III Elective	3
	Electives	9
		<hr/>
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN COMPUTER SCIENCE**

Freshman Year

Fall Semester

CSC 182	Introduction to Data Processing.....	3
ENG 104	Composition & Rhetoric I	3
PSY 101	General Psychology	3
	General Studies IV Elective	5
SPH	104, 105, or 106	3
		<hr/>
		17

Spring Semester

CSC 188	Intro. to FORTRAN IV Programming.....	3
MAT 107	Calculus I	5
ENG 108	Composition & Rhetoric II.....	3
ECO 260	Principles of Economics	3
	General Studies II Elective	3
		<hr/>
		17

Sophomore Year

Fall Semester

CSC 255	Introduction of PL/I Programming.....	3
CSC 284	Symbolic Assembler Language I	3
MAT 108	Calculus II	5
MAT 201	Elementary Statistics	3
PED 101	P.E. Concepts.....	1
		<hr/>
		15

Spring Semester

CSC 245	Introduction to COBOL Programming...3	
CSC 286	Computer & Programming Systems	3
MAT 209	Calculus III	5
	General Studies IV Elective	4
	P.E. Activity.....	1
		<hr/>
		16

Junior Year

Fall Semester

MAT 305	Linear Algebra	3
	Humanities	3
	General Studies III Elective	3
	Computer Science Elective	3
	Elective.....	3
	P.E. Activity	1
		<hr/>
		16

Spring Semester

MAT 312	Differential Equations.....	3
	Humanities	3
	Computer Science Elective.....	3
	Electives	6
	P.E. Activity	1
		<hr/>
		16

Senior Year

Fall Semester

MAT 417	Numerical Analysis	3
	Electives	12
		<hr/>
		15

Spring Semester

	Computer Science Elective	3
	Electives	9
		<hr/>
		12

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN DATA PROCESSING**

Freshman Year

Fall Semester

CSC 182	Introduction to Data Processing.....	3
MAT 105	College Algebra	3
ENG 104	Composition & Rhetoric I	3
SPH	104, 105, or 106	3
	General Studies IV Elective.....	4
		<hr/>
		16

Spring Semester

CSC 188	Intro. to FORTRAN IV Programming.....	3
MAT 201	Elementary Statistics	3
ENG 108	Composition & Rhetoric II.....	3
	General Studies II Social Science Elective	3
	General Studies IV Natural Science Elective	5
		<hr/>
		17

Sophomore Year

Fall Semester

CSC 284	Symbolic Assembler Language I	3
CSC 240	Introduction to RPG Programming	3
ECO 260	Principles of Economics	3
PED 101	P.E. Concepts.....	1
	Related Area Elective	3
	Elective	3
		<hr/>
		16

Spring Semester

CSC 286	Computer & Programming Systems	3
CSC 245	Introduction to COBOL Programming	3
	Related Area Elective	3
	Electives	6
	P.E. Activity	1
		—
		16

Junior Year

Fall Semester

PSY 101	General Psychology	3
	General Studies III Elective	3
	Computer Science Elective	3
	Related Area Elective	3
	Elective	3
	P.E. Activity	1
		—
		16

Spring Semester

	General Studies III Elective	3
	Computer Science Elective	3
	General Studies III Elective	3
	Related Area Elective	3
	Elective	3
	P.E. Activity	1
		—
		16

Senior Year

Fall Semester

	Computer Science Elective	3
	Related Area Electives	6
	Electives	6
		—
		15

Spring Semester

	Computer Science Elective	3
	Related Area Elective	3
	Electives	9
		—
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN MATHEMATICS**

Freshman Year

Fall Semester

MAT 107	Calculus I	5
ENG 104	Composition & Rhetoric I	3
	General Studies IV Elective	5
SPH	104, 105, or 106	3
		—
		16

Spring Semester

MAT 108	Calculus II	5
PHY 210	University Physics I	4
ENG 108	Composition & Rhetoric II	3
	General Studies II Elective	3
		—
		15

Sophomore Year

Fall Semester

MAT 209	Calculus III	5
CSC 188	Intro. to FORTRAN IV Programming	3
PSY 211	University Physics II	4
ECO 260	Principles of Economics	3
PED 101	P.E. Concepts	1
		—
		16

Spring Semester

MAT 312	Differential Equations	3
PHY 212	University Physics III	3
	Computer Science Elective	3
	Electives	6
	P.E. Activity	1
		—
		16

Junior Year

Fall Semester

MAT 305	Linear Algebra	3
PSY 101	General Psychology	3
	General Studies III Elective	3
	Advanced Math Elective	3
	Elective	3
	P.E. Activity	1
		—
		16

Spring Semester

MAT 316	Abstract Algebra	3
	General Studies III Elective	3
	Electives	6
	P.E. Activity	1
		—
		13

Senior Year

Fall Semester

MAT 420	Analysis I	3
	Advanced Math Elective	3
	Electives	6
		—
		12

Spring Semester

MAT 430	Analysis II	3
	General Studies III Elective	3
	Electives	6
		—
		12

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN MATHEMATICS**

Freshman Year

Fall Semester

MAT 107	Calculus I	5
ENG 104	Composition & Rhetoric I	3
SPH	104, 105, or 106	3
	General Studies IV Elective	5
		<hr/>
		16

Spring Semester

MAT 108	Calculus II	5
ENG 108	Composition & Rhetoric II	3
ECO 260	Principles of Economics	3
	General Studies IV Elective	4
		<hr/>
		15

Sophomore Year

Fall Semester

MAT 209	Calculus III	5
PSY 101	General Psychology	3
PED 101	P.E. Concepts	1
	General Studies II Elective	3
	Elective	3
		<hr/>
		15

Spring Semester

MAT 312	Differential Equations	3
SED 202	Intro. to Secondary Education	2
SED 203	Participation in Secondary Teaching I	1
	Electives	9
	P.E. Activity	1
		<hr/>
		16

Junior Year

Fall Semester

MAT 305	Linear Algebra	3
MAT 420	Analysis I	3
	General Studies III Elective	3
	Electives	6
	P.E. Activity	1
		<hr/>
		16

Spring Semester

MAT 316	Abstract Algebra	3
MAT 430	Analysis II	3
	General Studies III Elective	3
SED 303	Experience in Secondary Teaching II	3
SED 304	Psychology in Secondary Teaching	4
	P.E. Activity	1
		<hr/>
		17

Senior Year

Fall Semester

MAT 315	Topics in Geometry	3
	Education Elective	2
	General Studies III Elective	3
	Electives	9
		<hr/>
		17

Spring Semester

MAT 465	Math Teaching: Methods & Materials	2
SED 404	Foundations in Secondary Education	3
SED 407	Psychology & Education of the Exception Student	2
SED 409	Secondary Student Teaching III	9
		<hr/>
		16

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department of

MUSIC

Dr. M. Gilmour — chairman

J. Anderson

C. Crittenden

S. Groh

W. Mack

T. Price

R. Reimer

F. Thomas

The Department of Music provides a curriculum for the training of musicians and music educators. It is primarily concerned with improving the skills and disciplining the talents of music majors. The department also offers courses and activities for

all college students to enhance their appreciation and understanding of music.

Students are encouraged to broaden their contacts with music through attendance of the many cultural programs in St. Joseph and area concert halls and through participation in programs by student musicians.

BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR IN MUSIC — VOCAL EMPHASIS

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Courses in music must total 69 credit hours. The following specific courses are required: MUS 100 (seven semesters), MUS 146, 147, 160, 161, 162, 163, 169, 240, 241, 247, 260, 261, 262, 263, 330, 349 (2 hrs), 350, 449 (2 hrs), 462, 465, plus 8 credit hours applied voice. Degree candidates must pass piano proficiency examination at the conclusion of MUS 247 and prior to SED 409, participate in one major ensemble each semester (with the exception of the professional semester), and present a half-hour recital during the senior year.

240, 242, 247, 260, 261, 262, 263, 330, 351, 462, 465, plus 8 credit hours on the applied major instrument. Degree candidates must pass piano proficiency examination at the conclusion of MUS 247 and prior to SED 409, participate in one major ensemble each semester (with the exception of the professional semester), and present a half-hour recital during the senior year.

Vocal or instrumental majors may choose to take an elementary music education concentration by adding two courses: MUS 331 and 332.

Vocal majors may achieve instrumental certification with the addition of instrumental music courses. The following instrumental courses are suggested: MUS 140, 142, 143, 148, 242 and two semesters selected from MUS 135, 324, 333, 334.

MAJOR IN MUSIC — INSTRUMENTAL EMPHASIS

Courses in music must total 71 credit hours. The following specific courses are required: MUS 100 (seven semesters), 140, 141, 142, 143, 148, 160, 161, 162, 163, 169,

Instrumental majors may achieve vocal certification with the addition of vocal music courses. The following vocal courses are suggested: MUS 146, 147, 241, two semesters of MUS 370 and two semesters selected from MUS 110, 311, 312.

MUSIC

MUS 100 Recital (1) i, ii

Attendance at department sponsored or approved concerts. Required for all music majors.

MUS 101 Perspectives in Music (3) i, ii, iii

Music materials, forms, historical-social development of composers and compositions. For non-music majors.

MUS 160 Elementary Theory I (3) i

Simple chord progression, accessory tones, harmonizing melodies and figures

- bass. To be taken concurrently with MUS 100 and MUS 161.
- MUS 161 Elementary Sight-singing and Ear-training I (2) i**
Ear-training, sight-singing and keyboard application. To be taken with MUS 160.
- MUS 162 Elementary Theory II (3) ii**
Continuation of 160 adding modulation and seventh chords.
Prerequisite: MUS 160.
- MUS 163 Elementary Sight-singing and Ear-training II (2) ii**
Ear-training, sight-singing and keyboard application.
Prerequisite: MUS 161.
- MUS 169 Introduction to Music Literature (2) ii**
Historical survey of vocal, keyboard, symphonic, and chamber music. To be taken concurrently with MUS 162.
Prerequisite: MUS 160 or 300 or approval of instructor.
- MUS 240 Elements of Conducting (2) i**
Basic conducting techniques: patterns; cueing; left hand independence; ability to conduct legato, staccato and marcato styles.
Prerequisite: MUS 162.
- MUS 241 Choral Conducting (2) ii**
A laboratory course in problems of choral conducting. Supervised conducting experience is provided.
Prerequisite: MUS 240.
- MUS 242 Instrumental Conducting (2) ii**
A laboratory course in problems of instrumental conducting. Supervised conducting experience is provided.
Prerequisite: MUS 240.
- MUS 260 Advanced Theory I (3) i**
Continuation of Music 162 adding extended use of sevenths, accessory tones, and harmonic elaboration.
Prerequisite: MUS 162.
- MUS 261 Advanced Sight-singing and Ear-training I (2) i**
Ear-training, sight-singing and keyboard application.
Prerequisite: MUS 163.
- MUS 262 Advanced Theory II (3) ii**
Continuation of Music 260. Extended modulations, altered chords, introduction to present day harmonic practice.
Prerequisite: MUS 260.
- MUS 263 Advanced Sight-singing and Ear-training II (2) ii**
Ear-training, sight-singing and keyboard application.
Prerequisite: MUS 261.
- MUS 300 Fundamentals of Music (3) i, ii**
Music fundamentals: development of skills necessary for sight singing, writing simple songs, and playing simple instruments. Primarily for elementary education majors.
- MUS 330 Methods and Materials for Elementary Music Teachers (3) i**
Materials and procedures for teaching singing, music reading, rhythms, instrumental, listening, and creative activities.
Prerequisite: MUS 160 or 300.
- MUS 331 Music Activities for the Elementary Teacher (2) ii (odd numbered years)**
A study of music activities using rhythmic and melodic instruments and audio-visual aids.
Prerequisite: MUS 160 or 300.
- MUS 332 Supervising Elementary Teaching of Music (2) ii (even numbered years)**
Procedures for supervising the elementary music program and for assisting elementary teachers.
Prerequisite: MUS 330 or 331.
- MUS 335 Concert-Laboratory Band (1) ii**
Basic concert band literature with public performance: laboratory for conducting and arranging students; experience on secondary instruments. 3 hours.
Prerequisite: Approval of the director.
- MUS 337 Marching Band Techniques (1) i (odd numbered years)**
Materials and ideas in Marching Band Techniques.
Prerequisite: MUS 135.
- MUS 338 Instrument Care and Repair (1) ii (even numbered years)**
Techniques and experience in the repair of band and orchestra instruments. Emphasizes practical and economical use of materials, skill, and time.
Prerequisite: Two of the following: MUS 141, 142, 143, 148.
- MUS 349 Pedagogical Practices (1-3)**
Principles of teaching in the independent music studio. Content will be determined by student need: a. brass, b. keyboard, c. percussion, d. strings, e. voice, f. woodwinds. May be repeated for credit.
Prerequisite: Approval of instructor.
- MUS 350 History of Music: Primitive to Baroque (3) i**
Musical styles and techniques; from primitive music to baroque.
Prerequisite: MUS 169 and 262.
- MUS 351 History of Music: Classical to Modern (3) ii**
Musical styles and techniques; from classical to modern.
Prerequisite: MUS 169 and 262.
- MUS 449 Advanced Music Literature (1-3)**
Study in music literature and performance practices: a. chamber, b. choral, c. piano, d. organ, e. solo instrument, f. solo vocal. May be repeated for credit.
Prerequisite: Approval of instructor.
- MUS 450 Independent Study in Music (1-5)**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.
- MUS 462 Form and Analysis (3) i**
The elements, harmonic content, and formal structures of music; historical development.
Prerequisite: MUS 169 and 262.
- MUS 463 Arranging (2)**
Classification of instruments and voices; arranging for various combinations of in-

struments and voices.

Prerequisite: MUS 169, 262 or approval of instructor.

- MUS 465 Methods and Materials for Secondary Music Teachers (2) ii**
Problems and techniques of teaching music in junior and senior high schools; organization of instrumental and vocal groups; evaluation of materials.
Prerequisite: MUS 262.

MUSIC ENSEMBLES

Ensembles may be repeated for credit.

Major Ensembles

- MUS 110 Chorus (1) i, ii**
Group singing of various styles of music literature. 2 hours.
- MUS 135 Marching Band (1) i**
Performance of marching maneuvers. 5 hours per week. May be repeated for credit. Rehearsals commence about 2 weeks before beginning of semester.
Prerequisite: Approval of director.
- MUS 311 Choir (1) i, ii**
Emphasizes tone production and musicianship, public performance of sacred and secular works. 3 hours.
Prerequisite: Approval of the director.
- MUS 312 Vocal Ensemble (1) i, ii**
Madrigal group, trios, and quartets for public appearance. 3 hours.
Prerequisite: Approval of the director.
- MUS 323 String Ensemble (1)**
Chamber, music performance. 2 hours.
Prerequisite: Approval of the director.
- MUS 324 Symphony Orchestra (1) i, ii**
Performance with the St. Joseph Symphony Orchestra for students who qualify by audition. 3 hours.
- MUS 334 Symphonic Winds (1) ii**
Select ensemble emphasizing musicianship, playing skills; representative literature and public performance.
Prerequisite: Approval of the director.

Chamber Ensembles

- MUS 313 Swing Choir (1) i, ii**
Performance of popular music with choreography. 3 hours.
Prerequisite: Approval of director.
- MUS 320 Percussion Ensemble (1)**
Chamber music performance. 2 hours.
Prerequisite: Approval of the director.
- MUS 321 Brass Ensemble (1)**
Chamber music performance. 2 hours.
Prerequisite: Approval of the director.
- MUS 322 Woodwind Ensemble (1)**
Chamber music performance. 2 hours.
Prerequisite: Approval of the director.
- MUS 333 Jazz Ensemble (1) i, ii**
Select ensemble for public performance.
Prerequisite: Approval of the director.

APPLIED MUSIC

CLASS INSTRUCTION

- MUS 140 Class Strings I (2) i**
Class lessons to develop playing knowledge of upper strings; techniques of teaching instrumental groups.
- MUS 141 Class Strings II (2) ii**
Class lessons to develop playing knowledge of lower strings; techniques of teaching instrumental groups.
Prerequisite: MUS 140.
- MUS 142 Class Woodwinds (2) i**
Class lessons to develop playing knowledge of woodwinds; techniques of teaching instrumental groups.
- MUS 143 Class Brass (2) ii**
Class lessons to develop playing knowledge of brass; techniques of teaching instrumental groups.
- MUS 144 Class Piano I (2) i**
Sight reading, transposition, harmonization, reading music, playing by ear, improvisation. No piano background required.
- MUS 145 Class Piano II (2) ii**
Continuation of MUS 144.
Prerequisite: MUS 144 or approval of instructor.
- MUS 146 Foundations in Singing I (2) i**
Tone production, breath control, articulation, and interpretation. International phonetic alphabet and Italian pronunciation for singing.
- MUS 147 Foundations in Singing II (2) ii**
Continuation of MUS 146. German and French pronunciation for singing.
Prerequisite: MUS 146.
- MUS 148 Class Percussion (2) i**
Class lessons to develop playing knowledge of percussion; techniques of teaching instrumental groups.
- MUS 246 Class Piano III (2) i**
Continuation of MUS 145.
Prerequisite: MUS 145 or approval of instructor.
- MUS 247 Class Piano IV (2) ii**
Continuation of MUS 246.
Prerequisite: MUS 246 or approval of instructor.

INDIVIDUAL INSTRUCTION

Special Fees are assessed in these courses.

- MUS 370 Applied Voice (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree, ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 371 Applied Piano (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 372 Applied Strings (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.

- MUS 373 Applied Brass (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 374 Applied Percussion (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 375 Applied Woodwinds (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 376 Applied Organ (1-2) i, ii**
May be repeated for a total of 8 credit hours toward a degree. ½ hour for each credit hour.
Prerequisite: Approval of instructor.
- MUS 377 Composition (1-2) i, ii**
Private Lessons in composition, ½ hour lessons for each credit hour. May be repeated for credit.
Prerequisite: Approval of instructor.

SAMPLE PROGRAM

**BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN MUSIC (INSTRUMENTAL EMPHASIS)**

Freshman Year

Fall Semester

MUS 100	Recital.....	1
*MUS 135	Marching Band.....	1
*MUS 142	Class Woodwinds.....	2
	Applied Music.....	1
*MUS 160	Elementary Theory I.....	3
*MUS 161	Elementary Sight-Singing I.....	2
***MUS 144	Class Piano I.....	2
	General Studies II Elective.....	3
ENG 104, 108 or 112	.....	3
PED 101	P.E. Concepts.....	1
		<hr/>
		19

Spring Semester

MUS 100	Recital.....	1
MUS 334	Symphonic Winds.....	1
MUS 142	Class Brass.....	2
	Applied Music.....	1
MUS 162	Elementary Theory II.....	3
MUS 163	Elementary Sight-Singing II.....	2
MUS 169	Introduction to Music Literature.....	2
***MUS 145	Class Piano II.....	2
ENG 108, 112	.....	3
	P.E. Activity.....	1
		<hr/>
		18

Sophomore Year

Fall Semester

MUS 100	Recital.....	1
*MUS 135	Marching Band.....	1
*MUS 148	Class Percussion.....	2

Applied Music.....	1	
*MUS 240	Elements of Conducting.....	2
*MUS 260	Advanced Theory I.....	3
*MUS 261	Advanced Sight-Singing I.....	2
****MUS 246	Class Piano III.....	2
	General Studies III Electives.....	3
	P.E. Activity.....	1
		<hr/>
		18

Spring Semester

MUS 100	Recital.....	1
MUS 334	Symphonic Winds.....	1
	Applied Music.....	1
MUS 242	Instrumental Conducting.....	2
MUS 262	Advanced Theory II.....	3
MUS 263	Advanced Sight-Singing II.....	2
MUS 247	Class Piano IV.....	2
	General Studies II Elective.....	3
	P.E. Activity.....	1
SED 202	Introduction to Secondary Education.....	2
SED 203	Part. in Secondary Teaching I.....	1
		<hr/>
		19

Junior Year

Fall Semester

MUS 100	Recital.....	1
*MUS 135	Marching Band.....	1
	Applied Music.....	1
*MUS 330	El. Meth. & Mat.....	3
*MUS 140	Class Strings I.....	2
*MUS 462	Form & Analysis.....	3
**MUS 337	Marching Band Tech.....	1
SED 303	Experience in Teaching II.....	3
SED 304	Psychology in Secondary Teaching.....	4
		<hr/>
		19

Spring Semester

MUS 100	Recital.....	1
MUS 334	Symphonic Winds.....	1
	Applied Music.....	1
MUS 465	Secondary Meth. & Mat.....	2
MUS 141	Class Strings II.....	2
MUS 351	Music History II.....	3
**MUS 338	Inst. Care & Repair.....	1
	General Studies IV Elective.....	5
MAT 101	or higher.....	3
		<hr/>
		18

Senior Year

Fall Semester

MUS 100	Recital.....	1
*MUS 135	Marching Band.....	1
	Applied Music.....	1
*MUS 350	Music History I.....	3
	General Studies IV Elective.....	4
	General Studies II Elective.....	3
	General Studies III Elective.....	3
SPH 104, 105, or 106	3
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		19

Spring Semester

	Applied Music.....	1
SED 404	Found. in Secondary Education	3
SED 407	Psychology Ed. of Exceptional Student ...	2
SED 409	Secondary Student Teaching III	9
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*Courses offered only Fall Semester.

**Courses offered every other year.

***Student should audition for placement in piano sequence.

Majors must also pass piano proficiency, present a senior recital, and take the U.P. Music Test and Aural Music Test.

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN MUSIC (VOCAL EMPHASIS)**

Freshman Year

Fall Semester

MUS 100	Recital.....	1
*MUS 146	Class Voice I	2
*MUS 160	Elementary Theory I	3
*MUS 161	Elementary Sight-Singing I	2
MUS 370	Applied Voice	1
MUS 311	Choir.....	1
****MUS 144	Class Piano I	2
ENG 104, 108, or 112	.....	3
	General Studies III Electives	3
PED 101	P.E. Concepts.....	1
	—	19

Spring Semester

MUS 100	Recital.....	1
MUS 147	Class Voice II	2
MUS 162	Elementary Theory II	3
MUS 163	Elementary Sight-Singing II	2
MUS 169	Introduction Music Literature	2
MUS 370	Applied Voice	1
MUS 311	Choir.....	1
***MUS 145	Class Piano II	2
ENG 108 or 112	.....	3
	P.E. Activity	1
	—	18

Sophomore Year

Fall Semester

MUS 100	Recital.....	1
MUS 370	Applied Voice	1
*MUS 240	Elements of Conducting.....	2
*MUS 260	Advanced Theory I	3
*MUS 261	Advanced Sight-Singing I.....	2
****MUS 246	Class Piano III	2
MUS 311	Choir.....	1
SPH 104, 105, or 106	.....	3
	General Studies II Elective	3
	—	18

Spring Semester

MUS 100	Recital.....	1
MUS 241	Choral Conducting.....	2
MUS 247	Class Piano IV	2
MUS 262	Advanced Theory II	3
MUS 263	Advanced Sight-Singing II	2
MUS 370	Applied Voice	1
MUS 311	Choir.....	1
	P.E. Activity	1
	General Studies II Elective	3
SED 202	Introduction to Secondary Education.....	2
SED 203	Part. in Secondary Teaching I.....	1
	—	19

Junior Year

Fall Semester

MUS 100	Recital.....	1
MUS 311	Choir.....	1
*MUS 330	Elementary Methods & Materials.....	3
*MUS 462	Form & Analysis	3
MUS 370	Applied Voice	1
MUS 449	Advanced Music Literature (b)	2
SED 303	Experience in Secondary Teaching II	3
SED 304	Psychology in Secondary Teaching	4
	—	18

Spring Semester

MUS 100	Recital.....	1
MUS 311	Choir.....	1
MUS 349	Pedagogical Practices (e)	2
MUS 351	Music History II	3
MUS 370	Applied Voice	1
MUS 465	Secondary Methods & Materials.....	2
	General Studies IV Elective	5
MAT 101 or higher	.....	3
	—	18

Senior Year

Fall Semester

MUS 100	Recital.....	1
MUS 311	Choir.....	1
*MUS 350	Music History I.....	3
MUS 370	Applied Voice	1
	General Studies IV Elective	4
	General Studies II Elective	3
	General Studies III Elective	3
	P.E. Activity	1
	—	17

Spring Semester

MUS 370	Applied Voice	1
SED 404	Found. in Secondary Education	3
SED 407	Psychology & Educ. of the Exceptional Student	2
SED 409	Secondary Student Teaching III	9
	—	15

*Courses offered only Fall Semester.

**Courses offered every other year.

***Student should audition for placement in piano sequence.

Majors will also pass piano proficiency, present a senior recital, and take the U.P. Music Test and Aural Music Test.

department of
SOCIAL SCIENCE

J. Jordan — chairman
J. Allen
J. DeGregory
R. Donaldson
Dr. M. Hoover
Dr. F. Kessler
Dr. P. McLearn

E. Phelan
H. Pilgram
Dr. T. Ragland
Dr. J. Ripple
Dr. A. Rogers
Dr. D. Steiniche

The social sciences study human societies to understand their history, their components, their varieties, and their behavior. These sciences study the changes, organization, and disorganization of societies. In addition, they examine the varieties of

people in society, their character and conduct, and the evidences of their "human nature." Students in the department of Social Science generally prepare for careers in teaching, government, law, social work and criminal justice.

BACHELOR OF ARTS DEGREE
(Requires 16 credit hours in a single foreign language)

MAJOR IN HISTORY

Courses in History must total 30 credit hours, with an additional 24 credit hours required in supporting areas. The following specific courses are required: HIS 100, 110, 140, 150, 200, 330, or 340, plus 12 additional credit hours in History, including 9 credit hours numbered 300 or higher; PSC 101, 110, plus 3 additional credit hours in Political Science; SOC 110 plus 3 additional credit hours in Sociology; GEO 100; ECO 260; Social Science (other than history) 3 credit hours.

MAJOR IN POLITICAL SCIENCE

Courses in Political Science must total 30 credit hours, with an additional 24 credit hours required in supporting areas. The following specific courses are required: PSC 101, 110, 200, 210, 310, 320, plus 12 additional credit hours in Political Science courses numbered 300 or higher; HIS 100, 110, 140, 150; SOC 110 plus 3 additional credit hours in Sociology, GEO 100, ECO 260.

MAJOR IN SOCIOLOGY

Courses in Sociology must total 30 credit hours, with an additional 27 credit hours required in supporting areas. The following specific courses are required: SOC

110, 120, 230, 310, 440, 460, plus 12 additional credit hours in Sociology, including 9 credit hours numbered 300 or higher; HIS 100 or 110, 140 and 150; PSC 101, 110, 320, or 330; GEO 100, ECO 260, MAT 201.

BACHELOR OF SCIENCE DEGREE

MAJOR IN CRIMINAL JUSTICE

Entry to the baccalaureate program in criminal justice is through completion of an accredited associate degree program, preferably in a criminal justice area. This two-year program may be completed at Missouri Western State College or at another accredited college.

The major in criminal justice consists of 43 credit hours in criminal justice coursework plus 27 credit hours of coursework in related areas. The following specific courses are required: LAW 100, 110, 150, 160, 180, 200, 215, 220, 260, 290; CJU 470 (2 semesters), plus 9 credit hours of electives in criminal justice; PSC 101, 110; PSY 101, 210, 309; SOC 110, 310, 400, 430.

MAJOR IN HISTORY

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the student's major advisor.

MAJOR IN POLITICAL SCIENCE

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the students' major advisor.

MAJOR IN SOCIOLOGY

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the student's major advisor.

BACHELOR OF SCIENCE IN EDUCATION DEGREE**MAJOR IN SOCIAL SCIENCE**

Course work in the Social Sciences must total a minimum of 50 credit hours including at least 11 credit hours in Social Science courses numbered 300 or above. Specific requirements are: 12 credit hours European or World History including HIS 100, 110; 12 credit hours American History including HIS 140, 150; 9 credit hours Political Science including PSC 101; 9 credit hours Sociology; 3 credit hours Geography; 3 credit hours Economics, SSC 465.

BACHELOR OF SOCIAL WORK DEGREE

Entry to the baccalaureate program in social work is through interview and acceptance by the social work faculty. Prior to the interview a student must have completed at least 45 credit hours of college coursework with a minimum cumulative G.P.A. of 2.3.

Courses in Social Work must total 35 credit hours with an additional 39 credit

hours in related areas. The following specific courses are required: SWK 250, 310, 320, 330, 350, 410, 420, 460 (two semesters), 470; SOC 110, 230, 330, 440, 460; PSC 101, 320; PSY 101, 304, 320, 401; ECO 260; MAT 201.

MINORS**MINOR IN GEOGRAPHY**

Courses in Geography must total 19 credit hours. The following specific courses are required: GEO 100, 210, 220, 320, 330; ESC 304.

MINOR IN HISTORY

Courses in History must total 18 credit hours.

United States History option: HIS 140, 150, 300, 330, plus an additional 6 credit hours of history courses numbered 300 or higher.

European History option: HIS 100, 110, 200, 320 or 340, plus an additional 6 credit hours of history courses numbered 300 or higher.

MINOR IN POLITICAL SCIENCE

Courses in Political Science must total 18 credit hours.

American Government option: PSC 320, 330, 410, 430, plus an additional 6 credit hours of political science courses numbered 300 or higher.

International Affairs option: PSC 200, 210, 340, 440, plus an additional 6 credit hours or political science courses numbered 300 or higher.

MINOR IN SOCIOLOGY

Courses in Sociology must total 18 credit hours. The following specific courses are required: SOC 230, 310, 340, 440, plus an additional 6 credit hours of sociology courses numbered above 300.

CRIMINAL JUSTICE**CJU 450 Independent Study in Criminal Justice (1-5) i, ii, iii**

Investigation of selected problems or topics on an individual conference basis. Application for this course must be made in the Department Chairman's office well in advance of registration.

Prerequisite: Approval by the Department Chairman.

CJU 470 Senior Seminar in Criminal Justice (2) i, ii
Individual reports, group discussion, guest speakers on selected topics in criminal justice. Must be taken both semesters during the senior year for a total of four credit hours.

Prerequisite: Senior status in criminal justice.

CJU 490 Advanced Practicum in Criminal Justice (3-6) i, ii, iii

Field experience under the supervision of trained professionals in top level Criminal Justice positions. Application for place

ment must be made at least 9 weeks before registration for this course.

Prerequisite: Senior status in Criminal Justice.

GEOGRAPHY

- GEO 100 World Geography (3) i, ii, iii**
An introductory course which emphasizes the interrelationships between man and the natural environment.
- GEO 210 Geography of the United States and Canada (3) i (even numbered years)**
A regional study of the physical, cultural, and economic geography of the United States and Canada.
Prerequisite: A course in geography.
- GEO 220 Map Evaluation & Interpretation (3) ii (odd numbered years)**
General purpose and thematic maps of various scales; use in teaching and research. Uses and abuses of maps with a minimum of map drafting.
- GEO 320 Geography of Europe (3) i (odd numbered years)**
The nations and regions of Europe west of the Soviet Union, with present economics as a result of cultural and physical differences in the environment; trends of development as affected by new political and economic factors.
Prerequisite: A course in geography or European history.
- GEO 330 Economic Geography (3) ii (even numbered years)**
Patterns of distribution, production and consumption of the world's goods; causal factors of geographic location of agriculture, industrial, and extractive production; world trade routes, increasing industrial production, problems of non-industrial nations.

HISTORY

- HIS 100 Ancient and Medieval Civilization (3) i, ii**
The Western World from antiquity to the fifteenth century; the emergence of civilization in the Nile and Tigris-Euphrates valleys, the political, social, economic, and intellectual contributions of Greece, Rome, and Medieval Europe.
- HIS 110 Modern Civilization (3) i, ii**
The Western World from 1500 to 1815; national states, the geographical revolution and the founding of European Empires, the Reformation, the emergence of constitutional governments, the Scientific Revolution, and the American and French Revolutions.
- HIS 140 American History to 1865 (3) i, ii, iii**
The discovery of America to the end of Civil War; Colonial America, the Revolution, National Development, Sectionalism, and the Civil War.
- HIS 150 American History Since 1865 (3) i, ii, iii**
Continuation of History 140; Reconstruction, Industrialization, Urbanization, emergence as a world power, Progressivism, World War I, the New Deal, World War II, and Post-war America.
- HIS 200 Europe 1815-1914 (3) i**
Europe from the Congress of Vienna to 1914: Reaction and Revolution, Nationalistic movements, Rise of Socialism-Communism, the diplomatic background of World War I.
- HIS 220 History of Missouri (3) ii (even numbered years)**
Missouri under French and Spanish rule, the American acquisition, the role of the state in the slavery crisis and in the settlement of the West; study of the state's contributions to politics, art, literature, education, industry, and transportation.
- HIS 230 History of the American Negro (3)**
Colonial origins of Negro slavery, the Old South and slavery; Negro contributions to American culture; Negro leadership from Douglass to the present; the influence of the Negro on American politics from the writing of the Constitution to the modern civil rights legislation.
- HIS 300 American Colonial History (3) i**
The founding of the British North American colonies; origins of American cultural, religious, and racial diversity; British colonial administration to the Revolution.
Prerequisite: Six hours of American History.
- HIS 305 The American Frontier (3) ii (odd numbered years)**
Westward expansion of the United States over three centuries: colonial frontier, trans-Appalachian frontier, trans-Mississippi frontier; significance of the frontier in American history.
Prerequisite: Six hours of American History.
- HIS 310 English History I (3) i (even numbered years)**
Anglo-Saxon England, the Norman influence, development of English political, social, economic, and intellectual ideas, Tudor England, the Stuarts, the Glorious Revolution, 1688.
- HIS 320 English History II (3) ii (odd numbered years)**
The founding of the British Empire, and the role of England in the modern world.
- HIS 330 Recent United States History (3) i**
The United States since World War I, with emphasis on current problems.
Prerequisite: HIS 140 and 150 or consent of instructor.
- HIS 340 Recent European History (3) ii**
Europe in World War I, the rise of dictatorships, the League of Nations, new alignments, World War II and the post war period.
Prerequisite: HIS 200.
- HIS 350 History of the Far East (3)**
East Asia and the Pacific from antiquity to the present; Oriental religion, politics, and the economy; impact of European and American traders and missionaries, the founding of the European Empires, Oriental resistance to Westernization, and the emergence of modern China, Japan, and Pacific nations.
Prerequisite: HIS 110 or 200.

- HIS 360 The British Empire (3) i (odd numbered years)**
The Age of Discovery and the founding of the old British Empire, the Empire after the American Revolution, the Commonwealth of Nations, and the decline of Empire after 1945.
Prerequisite: HIS 310 and 320.
- HIS 370 History of Latin America (3) ii**
A survey course including Indian cultures, colonial period, independence movements, national developments, relations with the United States and Europe.
- HIS 380 The French Revolution and Napoleon (3)**
The Old Regime in France, failure of the Bourbon monarchy, the Revolution, the rise of Napoleon, the Napoleonic Wars to the Congress of Vienna 1815.
Prerequisite: Six hours of European History.
- HIS 400 Civil War and Reconstruction (3) i (odd numbered years)**
Sectionalism in anti-bellum America; developing sectional crisis and coming of the Civil War; effects of the war and reconstruction on the nation.
Prerequisite: Six hours American History.
- HIS 410 English Legal and Constitutional History (3)**
Magna Carta to the twentieth century; the Petition of Rights, the Puritan Revolution, the Glorious Revolution, the Bill of Rights and the Act of Secession, the development of cabinet government, the Reform Bills of 1832 and 1867, the Budget Act of 1911, the Statue of Westminster.
Prerequisite: HIS 110 and 310.
- HIS 420 History of Africa (3)**
North Africa in the ancient world, Africa during the Age of Geographical Discoveries, 19th century European imperialism, the emergence of modern African states and their problems.
Prerequisite: Six hours European history.
- HIS 430 European Intellectual History (3)**
Greek and Roman contributions, the Church Fathers, the Carolingian, Ottonian, and Twelfth Century Renaissance, Italian and Northern Humanism, the Age of Reason, Romanticism, and modern European thought.
Prerequisite: Six hours of European History.
- HIS 450 Independent Study in History (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.
- HIS 460 American Economic History (3) i (even numbered years)**
English mercantilism, laissez-faire and its effect on American, economic development, the emergence of the corporation and the trust, the issue of government regulation, and the role of government in the economy of today.
Prerequisite: Six hours of American History.
- HIS 465 Methods of Teaching the Social Studies (2) i**
Principles and methods of teaching the Social Studies in the secondary school. An in-depth study of current objectives, problems, materials, and methods as applied to each discipline within the social studies curriculum.
- HIS 470 American Social and Intellectual History (3)**
Education, religious, intellectual, and artistic development from Colonial times; Puritanism, and Enlightenment, Transcendentalism, Realism.
Prerequisite: Six hours of American History.
- POLITICAL SCIENCE**
- PSC 101 American National Government (3) i, ii, iii**
The American constitutional system; government finance, regulation of commerce, agriculture, labor, conservation of resources.
- PSC 110 American State and Local Government (3) i, ii, iii**
State and local government and its colonial/and revolutionary origins; state constitutions, legislatures, governors, courts, state services and functions, and problems in twentieth century America.
Prerequisite: PSC 101.
- PSC 200 International Politics (3) ii**
The nature of politics at the international level, the national state system, state capabilities, foreign policy objectives, formulation and execution, international organizations, alignments, and contemporary world tensions.
Prerequisite: PSC 101.
- PSC 210 Comparative Political Systems (3) ii**
A structural-functional analysis of major European political systems; comparison and contrast among such systems and with others of contemporary significance.
Prerequisite: PSC 101
- PSC 300 Political Parties and Interest Groups (3) ii (even numbered years)**
The evolution of the American two-party system. The place of the interest group in decision-making through interaction with executive and legislative branches.
Prerequisite: Six hours of political science.
- PSC 310 Political Theory (3) i**
Political theories of the Ancients, Aristotle and Plato; the Church Fathers; Renaissance thought of Machiavelli and More the Age of Enlightenment and Locke Montesquieu, and Jefferson; the theories of Marx, Welfare State ideas of Roosevelt the theories of Fascism and Nazism.
Prerequisite: PSC 101.
- PSC 320 Public Administration (3) ii**
Organization, functions, and problems of public administration in the United States.
Prerequisite: Six hours of political science
- PSC 330 Municipal Government (3) i (odd numbered years)**
The growth of cities, their legal status, municipal politics and elections, forms of city government, municipal services and functions.

- tions.
Prerequisite: Six hours of political Science.
- PSC 340 Latin American Political Systems (3) i (even numbered years)**
A comparative approach to Latin American political institutions with a view towards causes for political instability; revolution, the new military, Socialism v. Communism, and economic development and U.S. policy.
Prerequisite: Six hours of Political Science.
- PSC 350 Governments of Britain and the Commonwealth (3) i**
The British constitutional system and parliamentary government, variations of the Westminster model which have evolved in the Commonwealth; governmental efforts to cope with Britain's current social and economic problems.
Prerequisite: Six hours of political science.
- PSC 400 American Foreign Policy (3) ii (odd numbered years)**
Policy-making, the role of the public in decisions, formulation and implementation of national policy. U.S. policy goals in various areas of the world, decision-making in crisis situations.
Prerequisite: PSC 101 and 200.
- PSC 410 The Legislative Process (3) ii (odd numbered years)**
The American Congress, its organization, its rules, its role in the law making; the role of interest groups, congressional investigations, and the modern Presidency in the legislative process.
Prerequisite: Six hours of political science.
- PSC 420 Constitutional Law (3) i (odd numbered years)**
The role of the Supreme Court in the American system; judicial review and its significance under Marshall, Fuller, Taft, Hughes, and Warren; majority and minority opinions; the process of decision making.
Prerequisite: Six hours of political science.
- PSC 430 The American Presidency (3) ii (even numbered years)**
The place of the President in decision-making in the American federal system. His constitutional roles, the legal and extra-legal checks on presidential power.
Prerequisite: Six hours of political science.
- PSC 440 International Law and Organization (3) i (even numbered years)**
Legal and political foundations of the international system; settlement of disputes between states, prevention of war, maintenance of security, the United Nations, regional arrangements for collective defense, the development of economic-political units.
Prerequisite: PSC 101 and 200.
- PSC 450 Independent Study in Political Science (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.

SOCIAL WORK

- SWK 250 Introduction to Social Work (3) i, ii**
Basic patterns of professional social work practice; generic framework for the scientific practice of social work.
- SWK 310 Social Work: A Profession (3) i**
The profession of social work, its values, and its view in approaching problems; social work methods and settings; approaches and innovations within the profession and the function of the individual social worker.
Prerequisite: SWK 250.
- SWK 320 Philosophy and Policy in Social Services I (3) ii**
Historical significance of social legislation, its impact on the individual and society; social philosophy, social service, and social change.
Prerequisite: SWK 250.
- SWK 330 Human Behavior & Social Environment (3) i**
Social work concepts of human growth and development in all stages of the life cycle from conception to death: normal physical and emotional growth patterns; assisting people with problems in growth and development.
Prerequisite: SWK 250.
- SWK 350 Social Work Methods I (4) ii**
Beginning exploration of the helping relationship and social systems theory. 3 hours lecture, 3 hours laboratory per week.
Prerequisite: SWK 250, junior status in social work.
- SWK 410 Social Work Methods II (3) i**
Continuation of SWK 350. Social intervention skills: generalist practice skills systems, integration of experiences and current practice literature.
Prerequisite: SWK 350, senior status in social work.
- SWK 420 Philosophy & Policy in Social Services II (3) i**
Continuation of SWK 320. Analysis of the philosophy and policies of presently active social agencies; policy reforms and evaluation of their possible effectiveness.
Prerequisite: SWK 320, senior status in social work.
- SWK 450 Independent Study in Social Work (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 3.0 grade point average in his major field of study.
- SWK 460 Practicum in Social Work (5) i, ii, iii**
Field experience under the supervision of trained professionals in the field of social work. 16 hrs. per week in an agency setting. (Two semesters required for a total of 10 credit hours.)
Prerequisite: SWK 350, senior status in social work.

- SWK 470 Social Work Methods III (3) ii**
Senior seminar in social work. Individual reports, group discussion, guest speakers on selected topics in social work.
Prerequisite: SWK 410, 460.

SOCIOLOGY

- SOC 110 General Sociology (3) i, ii, iii**
Sociological concepts: social organization, human interaction with individuals and groups, population, and social change.
- SOC 120 Cultural Anthropology (3) ii, iii**
The nature of culture, language, society, and personality with emphasis on the cultural forms, processes, evolution and change.
- SOC 200 Physical Anthropology (3) ii (on demand)**
The living races of man, the growth and differentiation cultures of man from their origins to the development of civilizations.
- SOC 230 Social Institutions (3) i, ii**
The structure of human society; social stratification, and the familial, religious, and educational institutions.
Prerequisite: SOC 110.
- SOC 310 Social Deviation (3) i, ii, iii**
Individual and social disorganization; delinquency, alcoholism, minority groups, discrimination; and marital conflict.
Prerequisite: SOC 110 and 230.
- SOC 320 Urban Sociology (3) i**
Population dynamics and urban growth: processes of urbanization, social differentiation, bureaucratization, and inequality insofar as they affect social organization and life style; the modern city and metropolitan area as distinctive units of analysis.
Prerequisite: Six hours of sociology.
- SOC 330 The Family (3) ii**
The family as a basic institution; the structure and functions of the modern family in a changing urban environment.
Prerequisite: Six hours of sociology.
- SOC 340 Mind, Self, and Society (3) i**
The individual as a social actor; sociological conceptualizations of mind, self, and society; interrelationships between the individual and the structure and process of his society.
Prerequisite: SOC 110, 230.
- SOC 400 Minority Groups (3) ii**
The characteristics of minority groups: theoretical interpretations of minority-majority relations; group conflict and social differentiation in complex societies.
Prerequisite: Six hours of sociology
- SOC 420 Collective Behavior (3) ii**
Analysis of collective phenomena, propaganda, crowds, public opinion polls, pressure groups, and social movements.
Prerequisite: Six hours of sociology.
- SOC 430 Criminology (3) i**
Theories of criminal behavior, legal concepts, criminal statistics, corrective treatment, and crime control.
Prerequisite: SOC 110, 230, 310.
- SOC 440 Sociological Theory (3) i**
Historical and empirical treatment of the development, structure, and functioning

of human social systems.
Prerequisite: Twelve hours of sociology.

- SOC 450 Independent Study in Sociology (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.
- SOC 460 Research Methods in Sociology (3) ii**
Ethical, epistemological and theoretical foundations of the research process; basic assumptions, derivation of hypotheses, techniques for empirically testing the validity of the propositional structure of sociological and anthropological theories.
Prerequisite: MAT 201 and 15 credit hours of Sociology, including SOC 440.

SAMPLE PROGRAM BACHELOR OF SCIENCE DEGREE MAJOR IN CRIMINAL JUSTICE

Freshman Year

Fall Semester

LAW 100	Intro to Crim Justice.....	3
LAW 120	Patrol Operations.....	3
LAW 140	Traffic Control & Accident Investigation.....	3
SPH 104	Oral Communication.....	3
SOC 110	General Sociology.....	3
		12

Spring Semester

LAW 110	Juvenile Delinquency.....	3
LAW 160	Principles of Investigation.....	3
LAW 200	Penology & Corrections.....	3
ENG 104	Composition & Rhetoric I.....	3
PSY 101	General Psychology.....	3
PED 101	Concepts of P.E.....	3
		18

Sophomore Year

Fall Semester

LAW 180	Public Service & Community Relations.....	3
LAW 215	Essentials of Interviewing.....	3
LAW 220	Police Administration.....	3
LAW 260	Criminal Law.....	3
ENG 108	Composition & Rhetoric II.....	3
	P.E. Activity.....	3
		18

Spring Semester

LAW 150	Crim Just Report Writing.....	3
LAW 280	Criminalistics.....	3
LAW 290	Practicum in Crim Justice.....	3
PSC 101	American National Govt.....	3
HUM 210	Introduction to Philosophy.....	3
		15

Junior Year
Fall Semester

CHE 101	Introductory Chemistry.....	5
MAT 105	College Algebra.....	3
PSC 110	Amer St & Local Govt.....	3
PSY 210	Mental Hygiene.....	3
	P.E. Activity.....	1
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		15

Spring Semester

BIO 101	Principles of Biology.....	5
ENG 210	Approaches to Literature.....	3
SOC 310	Social Deviation.....	3
PSC 320	Public Administration.....	3
HUM 340	Ehtics.....	3
		—
		17

Senior Year
Fall Semster

PSY 309	Abnormal Psychology.....	3
PSC 330	Municipal Government.....	3
SOC 400	Minority Groups.....	3
SOC 430	Criminology.....	3
CJU 470	Senior Sem in Crim Just.....	2
	P.E. Activity.....	1
		—
		15

Spring Semester

CJU 450	Ind Study in Crim Justice.....	4
CJU 470	Senior Sem in Crim Justice.....	2
CJU 490	Adv Pract in Crim Justice.....	6
PSY 320	Adolescent Psychology.....	3
		—
		15

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN HISTORY**

Freshman Year
Fall Semester

ENG 104	English Composition.....	3
PSC 101	Amer. National Govt.....	3
	Science.....	4-5
HIS 140	American History to 1865.....	3
PED 101	P.E. Concepts.....	1
		—
		15

Spring Semester

ENG 108	English Composition.....	3
HIS 100	Ancient and Medieval Civ.....	3
	Mathematics.....	3
PSC 110	State and Local Govt.....	3
HIS 150	Amer. History since 1865.....	3
	P.E. Activity.....	1
		—
		16

Sophomore Year
Fall Semester

GEO 100	World Geography.....	3
	Foreign Language.....	4
SPH	104, 105 or 106.....	3
HIS 110	Modern Civilization.....	3
SOC 110	General Sociology.....	3
	P.E. Activity.....	1
		—
		17

Spring Semester

	Foreign Language.....	4
	General Studies IV Elective.....	4-5
	General Studies III Elective.....	3
ECO 260	Principles of Economics I.....	3
	P.E. Activity.....	1
		—
		15

Junior Year
Fall Semester

SOC 110	Social Institutions.....	3
HIS 200	European History (1815-1914).....	3
	Foreign Language.....	4
HIS 330	Recent U.S. History.....	3
	Elective.....	3
		—
		16

Spring Semester

PSC 210	Comparative Polit. Systems.....	3
	Foreign Language.....	4
	Electives in Major.....	9
		—
		16

Senior Year
Fall Semester

	Electives in Major.....	12
	Free Elective.....	3
		—
		15

Spring Semester

	Electives in Major.....	12
	Free Elective.....	3
		—
		15

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN POLITICAL SCIENCE**

Freshman Year
Fall Semester

ENG 104	English Composition.....	3
PSC 101	American Nat'l. Govt.....	3
	General Studies IV Elective.....	4-5
	Foreign Language.....	4
PED 101	P.E. Concepts.....	1
		—
		15

Spring Semester

ENG 108	English Composition.....	3
MAT 101	or higher.....	3
PSC 110	State & Local Government.....	3
	Foreign Language.....	4
HIS 140	American History to 1865.....	3
	P.E. Activity.....	1
		—
		17

Sophomore Year

Fall Semester

HIS 100	Ancient & Medieval Civ.	3
HIS 150	American History since 1865.....	3
	Foreign Language.....	4
	General Studies IV elective.....	4-5
	P.E. Activity.....	1
		—
		15

Spring Semester

HIS 110	Modern Civilization.....	3
GEO 100	World Geography.....	3
	Foreign Language.....	4
ECO 260	Principles of Economics I.....	3
SPH	104, 105, 106.....	3
	P.E. Activity.....	1
		—
		17

Junior Year

Fall Semester

SOC 110	General Sociology.....	3
PSC 200	International Politics.....	3
PSC 310	Political Theory.....	3
	Elective in Major.....	6
		—
		15

Spring Semester

PSC 210	Comparative Political Sys.....	3
PSC 320	Public Administration.....	3
	Electives in Major.....	9
		—
		15

Senior Year

Fall Semester

	Electives in Major.....	12
	Free Elective.....	3
		—
		15

Spring Semester

	Electives in Major.....	12
	Free Elective.....	3
		—
		15

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN SOCIOLOGY**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
	General Studies elective.....	4-5
	Foreign Language.....	4
SOC 110	General Sociology.....	3
PED 101	P.E. Concepts.....	1
		—
		15

Spring Semester

ENG 108	English Composition.....	3
HIS 100	Ancient & Medieval Civ.	3
SPH	104, 105, or 106.....	3
	Foreign Language.....	4
SOC 120	Cultural Anthropology.....	3
	P.E. Activity.....	1
		—
		17

Sophomore Year

Fall Semester

PSC 101	American Nat'l. Gov't.....	3
	Foreign Language.....	4
	General Studies IV elective.....	4-5
SOC 230	Social Institutions.....	3
	P.E. Activity.....	1
		—
		15

Spring Semester

GEO 100	World Geography.....	3
MAT 101	or higher.....	3
	General Studies III elective.....	3
	Foreign Language.....	4
ECO 260	Principles of Economics I.....	3
	P.E. Activity.....	1
		—
		17

Junior Year

Fall Semester

PSC 110	State & Local Gov't.....	3
	General Studies III elective.....	3
	Electives in Major.....	9
		—
		15

Spring Semester

HIS 140	American History to 1865.....	3
PSC 320	Public Administration.....	3
	Free Electives.....	9
		—
		15

Senior Year
Fall Semester

HIS 150	American History since 1865	3
SOC 310	Social Deviation.....	3
SOC 440	Sociological Theory.....	3
	Electives in Major	6
	—	
		15

Spring Semester

SOC 460	Research Methods in Sociology.....	3
	Electives in Major	12
	—	
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN HISTORY**

Freshman Year

Fall Semester

ENG 104	English Composition	3
PSC 101	American Nat'l. Gov't	3
	General Studies IV elective.....	4-5
HIS 140	American History to 1865.....	3
PED 101	P.E. Concepts.....	1
	—	
		15

Spring Semester

ENG 108	English Composition	3
HIS 100	Ancient & Medieval Civilization.....	3
MAT 101	or higher.....	3
	General Studies III elective.....	3
HIS 150	American History since 1865	3
	P.E. Activities.....	1
	—	
		16

Sophomore Year

Fall Semester

GEO 100	World Geography	3
SPH	104, 105, or 106	3
HIS 110	Modern Civilization.....	3
	General Studies III.....	3
HIS 200	European History (1815-1914).....	3
	P.E. Activity.....	1
	—	
		16

Spring Semester

	General Studies III elective.....	3
	General Studies IV elective.....	4-5
PSC 110	State & Local Government	3
ECO 260	Principles of Economics I.....	3
	Elective	3
	P.E. Activity.....	1
	—	
		17

Junior Year
Fall Semester

SOC 110	General Sociology	3
	Electives in Major	12
	—	
		15

Spring Semester

PSC 210	Comparative Political Systems	3
	Electives in Major	12
	—	
		15

Senior Year
Fall Semester

	Electives in Major	12
	Free elective	3
	—	
		15

Spring Semester

	Electives in Major	12
	Free elective	3
	—	
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN POLITICAL SCIENCE**

Freshman Year

Fall Semester

ENG 104	English Composition	3
PSC 101	American Nat'l. Gov't	3
	General Studies IV elective	4-5
SPH	104, 105, or 106	3
PED 101	P.E. Concepts.....	1
	—	
		15

Spring Semester

ENG 108	English Composition	3
MAT 101	or higher.....	3
PSC 110	State and Local Gov't	3
HIS 140	American History to 1865.....	3
	General Studies III elective.....	3
	P.E. Activity.....	1
	—	
		16

Sophomore Year

Fall Semester

HIS 100	Ancient & Medieval Civilization.....	3
	General Studies III elective.....	3
HIS 150	American History since 1865	3
PSC 200	International Politics.....	3
	General Studies IV elective.....	4-5
	P.E. Activity.....	1
	—	
		17

Spring Semester

HIS 110	Modern Civilization.....	3
GEO 100	World Geography.....	3
	General Studies III elective.....	3
ECO 260	Principles of Economics.....	3
PSC 300	Political Parties and Interest Groups.....	3
	P.E. Activity.....	1
	—	16

**Junior Year
Fall Semester**

SOC 110	General Sociology.....	3
PSC 310	Political Theory.....	3
	Electives in Major.....	9
	—	15

Spring Semester

PSC 210	Comparative Political Systems.....	3
PSC 320	Public Administration.....	3
	Electives in Major.....	9
	—	15

**Senior Year
Fall Semester**

Electives in Major.....	15
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Spring Semester

Electives in Major.....	9
Free electives.....	6
—	15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE DEGREE
MAJOR IN SOCIOLOGY**

**Freshman Year
Fall Semester**

ENG 104	English Composition.....	3
	General Studies IV elective.....	4-5
SPH	Speech 104, 105, or 106.....	3
SOC 110	General Sociology.....	3
PED 101	P.E. Concepts.....	1
	—	15

Spring Semester

ENG 108	English Composition.....	3
HIS 100	Ancient & Medieval Civilization.....	3
MAT 101	or higher.....	3
SOC 120	Cultural Anthropology.....	3
	General Studies III elective.....	3
	P.E. Activity.....	1
	—	16

**Sophomore Year
Fall Semester**

HIS 140	American History to 1865.....	3
	General Studies III elective.....	3
	General Studies IV elective.....	4-5
SOC 230	Social Institutions.....	3
ECO 260	Principles of Economics I.....	3
	P.E. Activity.....	1
	—	17

Spring Semester

PSC 101	American Nat'l. Gov't.....	3
HIS 110	Modern Civilization.....	3
	General Studies III elective.....	3
	Electives.....	6
	P.E. Activity.....	1
	—	16

**Junior Year
Fall Semester**

PSC 110	American State & Local Government.....	3
SOC 310	Social Deviation.....	3
SOC 330	The Family.....	3
SOC 440	Sociological Theory.....	3
	Free elective.....	3
	—	15

Spring Semester

GEO 100	World Geography.....	3
HIS 150	American History since 1865.....	3
PSC 320	Public Administration.....	3
SOC 460	Research Methods in Sociology.....	3
	Free elective.....	3
	—	15

**Senior Year
Fall Semester**

Electives in Major or Minor.....	15
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Spring Semester

Electives in Major or Minor.....	15
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**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN SOCIAL SCIENCE**

**Freshman Year
Fall Semester**

ENG 104	English Composition.....	3
HIS 100	Ancient & Medieval Civilization.....	3
GEO 100	World Geography.....	3
	General Studies IV elective.....	4-5
MAT	Elective.....	3
PED 101	P.E. Concepts.....	1
	—	17

Spring Semester

ENG 108	English Composition.....	3
PSC 101	American Nat'l. Gov't.....	3
SOC 110	General Sociology.....	3
HIS 140	American History to 1865.....	3
	General Studies IV elective.....	3
	P.E. Activity.....	1
		—
		16

Sophomore Year

Fall Semester

PSC 110	State & Local Gov't.....	3
HIS 150	American History since 1865.....	3
	General Studies III elective.....	3
	Elective.....	3
SPH	104, 105, or 106.....	3
	P.E. Activity.....	1
		—
		16

Spring Semester

HIS	Modern Civilization.....	3
	General Studies IV elective.....	4-5
	General Studies III elective.....	3
	Elective.....	3
SED	Introduction to Secondary Education.....	2
SED	Participation in Secondary Teaching I.....	1
	P.E. Activity.....	1
		—
		17

Junior Year

Fall Semester

HIS 200	Europe 1815-1914.....	3
SED 303	Experience in Secondary Teaching II.....	3
SED 304	Psychology in Secondary Teaching.....	4
HIS 330	Recent U.S. History.....	3
SSC 465	Methods of Teaching SS.....	2
		—
		15

Spring Semester

	Political Science Elective.....	3
	Electives in Social Science.....	12
		—
		15

Senior Year

Fall Semester

ECO 261	Principles of Economics II.....	3
SED 422	Behavior Mod. in Classroom.....	2
	Electives in Major.....	12
		—
		17

Spring Semester

SED 404	Foundations in Secondary Education.....	3
SED 407	Psychology & Ed. of the Exceptional Student.....	2
SED 409	Secondary Student Teaching III.....	9
		—
		14

**SAMPLE PROGRAM
BACHELOR OF SOCIAL WORK**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
	General Studies IV elective.....	4-5
	General Studies III elective.....	3
PSC 101	American Nat'l. Gov't.....	3
PED 101	P.E. Concepts.....	1
		—
		15

Spring Semester

ENG 108	English Composition.....	3
MAT 101	or higher.....	3
SPH	104, 105, or 106.....	3
SOC 110	General Sociology.....	3
	General Studies III elective.....	3
	P.E. Activity.....	1
		—
		16

Sophomore Year

Fall Semester

PSY 101	General Psychology.....	3
SOC 230	Social Institutions.....	3
	General Studies IV elective.....	4-5
ECO 260	Principles of Econ I.....	3
HUM 340	Ethics.....	3
	P.E. Activity.....	1
		—
		17

Spring Semester

PSC 110	Amer. St. & Loc. Gov't.....	3
SOC 120	Cultural Anthropology.....	3
PSY 200	Intermediate Psychology.....	3
MAT 201	Elementary Statistics.....	3
SWK 250	Intro. to Social Work.....	3
	P.E. Activity.....	1
		—
		16

Junior Year

Fall Semester

SWK 310	SWK: A Profession.....	3
SWK 330	Hum. Beh. & Soc. Envir.....	3
SOC 330	The Family.....	3
PSY 304	Child Psychology.....	3
	Electives.....	3
		—
		15

Spring Semester

SWK 320	Phil. & Pol. in SS I.....	3
SWK 350	Social Work Methods I.....	4
PSY 320	Adolescent Psychology.....	3
PSY 401	Social Psychology.....	3
PSC 320	Public Administration.....	3
		—
		16

Senior Year

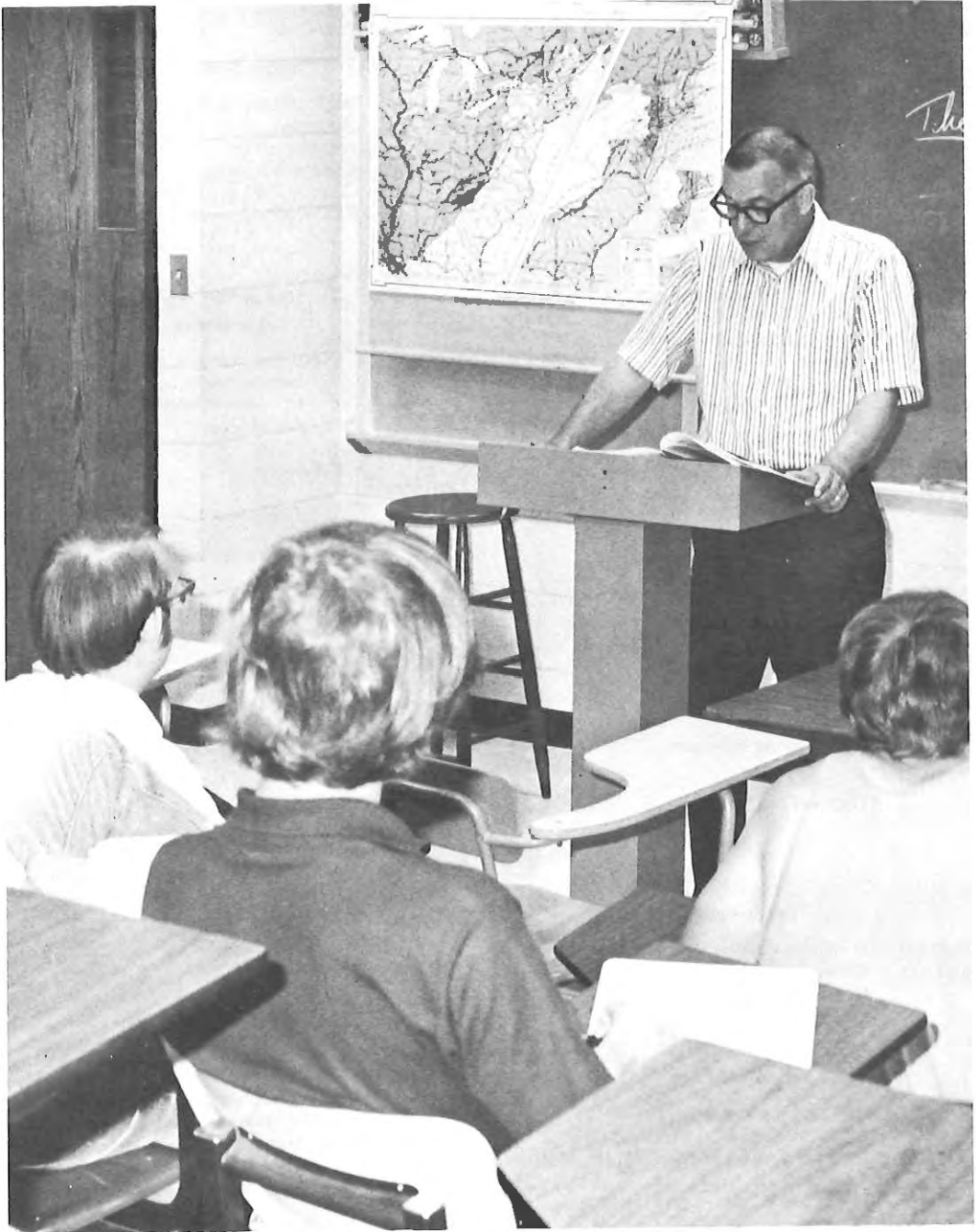
Fall Semester

SWK 410	Social Work Methods II.....	3
SWK 420	Phil. & Policy in SSII	3
SWK 460	Practicum in SWK.....	5
SOC 440	Sociological Theory.....	3
	Electives	1
		<hr/>
		15

Spring Semester

SOC 460	Research Methods in Soc.....	3
SWK 460	Practicum in SWK.....	5
SWK 470	Social Work Methods III	3
	Electives	3
		<hr/>
		14

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SPEECH, THEATRE, HUMANITIES

Dr. J. Mehl — chairman
Dr. D. Atkins
Dr. L. Dobbins
B. Garren
C. Grimsley
Dr. I. Parmenter

Dr. A. Ruffino
J. Tapia
Dr. R. Wagner
J. Wear
B. Wise

The department of Speech, Theatre, Humanities comprises several diversified areas of knowledge and experience. The humanities center on the human being — his aspirations, his potentialities, his relationships with his fellow man — especially as they are reflected in literature, drama, philosophy, and religion. The department is concerned with communicative transactions between human beings — the expression, comprehension, and exchange of ideas through either oral or written discourse or artistic endeavor. It is through an understanding of these processes that a picture of the total human being emerges. Students in the department

are introduced to many aspects of man's social and creative life thereby acquiring a background for careers in numerous fields such as linguistics, law, politics, journalism, public relations, communications, teaching, and many others.

The department of Speech, Theatre, Humanities offers majors in Speech and Theatre applicable to both the Bachelor of Arts and the Bachelor of Science in Education degrees. Moreover the department as a whole contributes to the general education of all students, the objective being to provide meaning to the term "humanities."

BACHELOR OF ARTS DEGREE
Requires 16 credit hours in a single foreign language)

MAJOR IN SPEECH COMMUNICATION

Courses in Speech must total 36 credit hours. The following specific courses are required: SPH 124, 305, 312, 314, 324, 334, 335, 475, plus 12 additional credit hours in Speech.

MAJOR IN THEATRE

Courses in Theatre and related areas must total 39 credit hours. The following specific courses are required: SPH 124; THR 217, 239, 249, 259, 318, 338, 457, 467, plus an additional 13 credit hours selected from theatre coursework, 9 hours of which must be numbered 300 or higher. (6 credit hours may be selected from non-theatre coursework, but must have departmental approval).

MINOR IN SPEECH COMMUNICATION

Courses in speech must total 21 credit hours. The following specific courses are

required: SPH 305 or 324, 312, 314, 334, 335, plus 6 additional credit hours in speech.

MINOR IN THEATRE

Courses in theatre must total 20 credit hours. The following specific courses are required: THR 140, 218, 249, or 259, 338, 457, or 467, plus elective credits in theatre or departmentally approved coursework to total 6 credit hours, 3 credit hours of which must be numbered 300 or higher.

MINOR IN HUMANITIES

Courses in humanities and approved electives must total 21 credit hours. The following specific courses are required: HUM 203, 205, 210, 340, or 420, plus an additional 9 credit hours chosen from HUM 219, 330, 340, 360, 420; ENG 220; FRE 320; GER 320; SPA 320; ART 205 or 206; MUS 350 or 351; THR 457 or 467; HIS 430, or other courses approved by the humanities faculty.

BACHELOR OF SCIENCE IN EDUCATION DEGREE

MAJOR IN SPEECH AND THEATRE

Courses in Speech and Theatre must total 39 credit hours. The following specific courses are required: SPH 124, 305, or 324, 312, 314, 334, 465, plus an additional 3

credit hours in Speech; THR 217, 218, 249, 318, 338, plus an additional 3 credit hours in Theatre, numbered 300 or higher.

MINOR IN SPEECH AND THEATRE

Courses in Speech and Theatre must total 21 credit hours. The following specific courses are required: SPH 124, 305 or 324, 312 or 334, 465; THR 218, 249, 338.

SPEECH

- SPH 104 Oral Communication (3) i, ii, iii**
Principles of speech as applied in meaningful participation in society. Not available for credit to students with previous or concurrent credit in either SPH 105 or 106.
- SPH 105 Business and Professional Speech (3) i, ii**
Principles of speech directly applicable to the professions and business; formal presentations of speeches of various types, the conference, and interview techniques. Not available for credit to students with previous or concurrent credit in either SPH 104 or 106.
- SPH 106 Public Speaking (3) i, ii**
Analysis and application of concepts used in public speaking; informative and persuasive platform speeches. Not available for credit to students with previous or concurrent credit in either SPH 104 or 105.
- 150 SPH 124 Voice and Articulation (3) ii**
Theories and techniques of improving voice and articulation. Includes mastery of a working knowledge of phonetics.
- SPH 204 Mass Communication (3) ii**
Basic concepts of mass communication. Interpretation of mass communication as a persuasive, artistic, and social force.
- SPH 218 Oral Interpretation (3) i**
Same as THR 218. Oral reading and analysis of prose, poetry, and drama.
- SPH 251 Laboratory Forensics (1) i, ii**
Participation in collegiate forensic activities including debate, oratory, manuscript reading, oral interpretation and extempore speaking. May be repeated for a maximum total of four credit hours.
- SPH 305 Interpersonal Communication (3) i**
An analysis of communication interactions in relatively unstructured, person-to-person settings with application of interpersonal communication concepts to resolving problems emerging from human interactions.
- SPH 312 Advanced Public Speaking (3) i**
Refinement of speech preparation and presentation; platform experience, extemporaneous and manuscript speeches for various occasions.
Prerequisite: SPH 104 or 105 or 106.
- SPH 314 Persuasion (3) ii**
Persuasion as a process of influencing attitude and behavior; preparation and delivery of suasory discourse. Emphasis on experimental research as reflected on the persuasive process.
Prerequisite: SPH 104 or 105 or 106.
- SPH 317 Speech for the Classroom Teacher (3) ii (odd numbered years)**
Analysis of speech formats for classroom instruction: oral reports, group discussion, interviews, oral interpretation, storytelling, mini-lecture, and formal lecture.
- SPH 324 Small Group Communication (3) ii**
Group roles, leadership styles, group structure, thought processes, and consensus methods. Application of concepts to communication interaction in vocational and social group settings.
- SPH 334 Argumentation and Debate (3) i**
Philosophical and theoretical foundations of logic and argumentation to the persuasive process; experience in preparation and presentation through debate and discussion formats.
Prerequisite: SPH 104 or 105 or 106.
- SPH 335 Rhetorical Theory & Criticism (3) ii (odd numbered years)**
Development of rhetorical theories from classical period to modern; application to analysis and criticism of selected speeches.
Prerequisite: 9 semester hours of speech.
- SPH 345 Nonverbal Communication (3) i**
Nonverbal aspects of communication; factors which affect and modulate verbal messages. Interpretation of nonverbal information; kinesics (body motion), proxemics (social/personal space), and paralinguage (vocal cues accompanying words).
Prerequisite: SPH 104 or 105 or 106.
- SPH 410 Organizational Communication (3) ii (even numbered years)**
Analysis of concepts affecting communication patterns and behavior outcomes in social, political, religious, educational, and business organizations.
Prerequisite: SPH 305 or 324 or permission of instructor.
- SPH 450 Independent Study in Speech (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must have: (1) completed the major-minor application form, (2) obtained the consent of the department chairman, and (3) earned a minimum 2.5 grade point average in his major field of study.

- SPH 465 Methods of Teaching Speech and Drama (3) i (even numbered years)**
Philosophies, issues, and problems in contemporary speech education. Content, structure, presentation, and evaluation of curriculum and teaching in speech and theatre.
Prerequisite: Consent of instructor.
- SPH 475 Modern Theories of Rhetoric and Communication (3) i (odd numbered years)**
Contemporary theories and rhetoric and communication, with emphasis upon research; critical, historical and experimental approaches to deriving and testing the validity of theories and communication.

THEATRE

- THR 113 Introduction to Theatre (3) i, ii**
The contributions made by directors, actors, designers, technicians, and playwrights to modern dramatic productions. Participation in a production as performer, member of stage or construction crew, or member of production committee is an optional activity but is not required.
- THR 140 Production Participation (1-3), i, ii, iii**
Forty hours of supervised practical work in any area of theatrical activity for each hour of credit. May be repeated for a maximum of six hours credit.
- THR 217 Play Analysis (2) i (odd numbered years)**
Study of the written script from the standpoint of the actor, director and designer; strategies of plotting, characterization, thematic development, and style; descriptive analysis of the principal dramatic genres and styles.
- THR 218 Oral Interpretation (3) i**
Same as SPH 218. Oral reading and analysis of prose, poetry, and drama.
- THR 229 Stage Makeup (2) ii (even numbered years)**
Techniques and materials involved in make up and hair styling as required by the various styles and periods of dramatic productions. 1 hr. lecture, 2 hrs. lab. (Student must furnish assorted makeup accessories).
- THR 239 Costume History and Construction (2) i (even numbered years)**
An historical study of stage costume and the techniques involved in the construction of the varying period costumes.
- THR 249 Stagecraft: Stages and Construction (4) i**
Stages, staging techniques and construction in relation to theatrical production requirements. 3 hours lecture-demonstration, 4 hours lab.
- THR 259 Stage Lighting (3) ii**
A continuation of THR 249; emphasizes the element of stage lighting as a production requirement. 2 hours lecture-demonstration, 2 hours lab.
- THR 318 Acting (3) i**
Basic principles of acting and stage movement developed through improvisational techniques.
Prerequisite: THR 217 or consent of instructor.

- THR 338 Directing (3) ii**
Principles of play direction: selection, casting, blocking, staging a production.
Prerequisite: THR 217, 249 or consent of instructor.
- THR 339 Design for the Theatre (3) i (odd numbered years)**
Theory and techniques involved in the creative process of theatrical design with applications culminating in a completed set of designs. Emphasis in scene and costume design. 2 hrs. lecture, 2 hrs. lab.
Prerequisite: THR 239
- THR 358 Readers Theatre (3) ii (odd numbered years)**
Principles and techniques involved in readers theatre.
Prerequisite: THR 218 or consent of instructor.
- THR 368 Shakespeare (3) i**
Same as ENG 368. Shakespearean drama.
Prerequisite: ENG 210 or 220, or consent of instructor.
- THR 370 Summer Theater Workshop (3) iii**
Practical experience in designing, staging, acting and producing the play or plays with individual assignments designated by the instructor.
Prerequisite: Consent of instructor.
- THR 418 Independent Project in Acting (1-3) i, ii, iii**
Specialized research, performance problems. Scholarly projects in the theory of acting for advanced students. Written project proposals must have instructor's approval prior to student's registration. May be repeated for a maximum of six credit hours.
Prerequisites: THR 217, 318 and/or consent of instructor.
- THR 438 Independent Projects in Directing (1-3), i, ii, iii**
Advanced study in script analysis, staging techniques, rehearsal procedures, and technical coordination. Project involves directing a laboratory production. Formal production prospectus must have instructor's approval prior to student's registration. May be repeated for a maximum of six credit hours.
Prerequisites: THR 217, 239, 249, 259, 338 and/or consent of instructor.
- THR 449 Independent Projects in Technical Theatre (1-3) i, ii, iii**
Project course involving the design and execution of scenery, lights, sound, properties, costumes, or make-up for a full-length departmental production.
Prerequisites: THR 229, 239, 249, 259 or 339 and consent of instructor.
- THR 457 History of the Theatre: Greek to Restoration (3) i (even numbered years)**
A study of the theatre from ancient Greece through the Restoration period. Theatre and stage architecture, scene design, costuming and acting styles are discussed and their relation to dramatic literature analyzed. 3 hours lecture.
- THR 467 History of the Theatre: Restoration to the Present (3) ii (odd numbered years)**
A continuation of History of the THR 457, a study of the theatre from Restoration period to the present. 3 hours lecture.

THR 478 Modern Drama (3) ii (even numbered years)
 Same as ENG 478, Ibsen to the present.
Prerequisite: ENG 210 or 220, or consent of instructor.

HUMANITIES

HUM 203 Humanities I (3) i, ii, iii
 The social and intellectual history of man as reflected by the literature, art, music, drama and discourse of man from classical period to Renaissance.

HUM 205 Humanities II (3) i, ii, iii
 The social and intellectual history of man as reflected by the literature, art, music, drama and discourse of man from Renaissance to present.

HUM 210 Introduction to Philosophy (3) i, ii, iii
 A survey of the origins and development of philosophic thought.

HUM 219 Logic (3) i
 Basic forms of reasoning with emphasis on the evaluation of arguments.

HUM 330 Comparative Religions (3) i (odd numbered years)
 A survey of the nature and effects of major and minor religions on the culture and civilization of mankind.

HUM 340 Ethics (3) ii
 Definition, meaning, scope and application of ethics to every phase of mankind as comprehended by an analysis of ethics in ancient, medieval and modern times.

HUM 360 Readings in the Humanities (3) ii
 Specialized course work in the humanities of Western Civilization; emphasis on analysis of humanistic works of leading authors.
Prerequisite: HUM 203 and 205, or consent of instructor.

HUM 420 Readings in Philosophy (3) (odd numbered years)
 A seminar course directed toward the analysis of principal works of leading philosophers: ancient, medieval and modern.
Prerequisite: HUM 210.

**SAMPLE PROGRAM
 BACHELOR OF ARTS DEGREE
 MAJOR IN SPEECH COMMUNICATION**

**Freshman Year
 Fall Semester**

ENG 104	English Composition.....	3
PED 101	P.E. Concepts.....	1
	P.E. Activity.....	1
	General Studies III elective.....	3
	General Studies II elective.....	3
SPH	104, 105, or 106	—
		14

Spring Semester

ENG 108	English Composition.....	3
	P.E. Activity.....	1
	General Studies III.....	3
	General Studies IV.....	3
	General Studies II.....	3
SPH 124	Voice & Articulation.....	3
		—
		16

**Sophomore Year
 Fall Semester**

MAT 101	P.E. Activity.....	1
	or higher.....	3
	General Studies II elective.....	3
	General Studies IV elective.....	4
SPH 305	Interpersonal Communication.....	3
SPH 312	Advanced Public Speaking.....	3
		—
		17

Spring Semester

SPH 324	P.E. Activity.....	1
	General Studies IV elective.....	5
	Small Group Communication.....	3
	Speech Elective.....	3
	Elective.....	3
		—
		15

**Junior Year
 Fall Semester**

SPH 334	Foreign Language.....	4
SPH 475	Argumentation & Debate.....	3
	Modern Theories.....	3
	Speech Elective.....	3
	Elective.....	3
		—
		16

Spring Semester

SPH 314	Foreign Language.....	4
	Persuasion.....	3
	Speech Elective.....	3
	Electives.....	6
		—
		16

**Senior Year
 Fall Semester**

	Foreign Language.....	4
	Speech Elective.....	3
	Electives.....	9
		—
		16

Spring Semester

SPH 335	Foreign Language.....	4
	Rhetorical Theory & Criticism.....	3
	Electives.....	7
		—
		14

**SAMPLE PROGRAM
BACHELOR OF ARTS DEGREE
MAJOR IN THEATRE**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
PED 101	P.E. Concepts.....	1
MAT 101	or higher.....	3
	General Studies II elective.....	3
MAT 105	Math college algebra.....	3
THR 217	Play Analysis.....	2
		—
		15

Spring Semester

ENG 108	English Composition.....	3
	General Studies II elective.....	3
	Social Science Elective.....	3
SPH	104, 105, or 106.....	3
	P.E. Activity.....	1
SPH 124	Voice & Articulation.....	3
		—
		16

Sophomore Year

Fall Semester

	General Studies IV elective.....	4
	P.E. Activity.....	1
THR 239	Costume History & Construction.....	2
THR 249	Stagecraft.....	4
THR 318	Acting.....	3
	Theatre Elective.....	3
		—
		17

Spring Semester

	General Studies IV elective.....	5
	P.E. Activity.....	1
	General Studies III elective.....	3
THR 259	Stage Lighting.....	3
	Theatre Elective.....	3
		—
		15

Junior Year

Fall Semester

	Foreign Language.....	4
	Theatre Elective.....	3
	Electives.....	9
		—
		16

Spring Semester

THR 338	Foreign Language.....	4
	Directing.....	3
	Theatre Elective.....	3
	Electives.....	6
		—
		16

Senior Year

Fall Semester

	Foreign Language.....	4
THR 457	History of Theatre I.....	3
	Theatre Elective.....	1
	Electives.....	6
		—
		14

Spring Semester

	Foreign Language.....	4
THR 467	History of Theatre II.....	3
	Electives.....	8
		—
		15

**SAMPLE PROGRAM
BACHELOR OF SCIENCE IN EDUCATION DEGREE
MAJOR IN SPEECH AND THEATRE**

Freshman Year

Fall Semester

ENG 104	English Composition.....	3
PED 101	P.E. Concepts.....	1
	General Studies II elective.....	3
MAT 101	or higher.....	3
SPH	104, 105, or 106.....	3
THR 217	Play Analysis.....	2
		—
		15

Spring Semester

ENG 108	English Composition.....	3
	General Studies II elective.....	3
	General Studies II elective.....	3
	P.E. Activity.....	1
SPH 124	Voice & Articulation.....	3
SPH 324	Small Group Communication.....	3
		—
		16

Sophomore Year

Fall Semester

	General Studies III elective.....	3
SED 202	Introduction to Secondary Education.....	2
SED 203	Secondary Teaching I.....	1
SPH 218	Oral Interpretation.....	3
SPH 312	Advanced Public Speaking.....	3
THR 249	Stagecraft.....	4
		—
		16

Spring Semester

	General Studies IV elective.....	5
	P.E. Activity.....	1
SED 303	Experience in Secondary Teaching II.....	3
SED 304	Psychology in Secondary Teaching.....	4
SPH 314	Persuasion.....	3
		—
		16

Junior Year
Fall Semester

	P.E. Activity.....	1
	General Studies IV elective.....	4
SPH 334	Argumentation & Debate.....	3
THR 318	Acting.....	3
	Speech or Theatre Elective.....	3
	Elective.....	3
	—	—
		17

Spring Semester

THR 338	Directing.....	3
	Speech or Theatre Elective.....	3
	Electives.....	9
	—	—
		15

Senior Year
Fall Semester

SPH 465	Methods of Teaching Speech & Drama.....	3
	Electives.....	12
	—	—
		15

Spring Semester

SED 404	Foundations in Secondary Education.....	3
SED 407	Psychology & Ed. of the Exceptional Student.....	2
SED 409	Secondary Student Teaching.....	9
	—	—
		14



THE DIVISION OF CONTINUING EDUCATION

Through the Division of Continuing Education, Missouri Western State College provides a variety of programs including:

1. One day seminars and workshops
2. Evening classes which may be scheduled for one session to sessions for a full semester.
3. Courses which produce academic credit for specialized populations in the community.

The resources of the campus and community are utilized through the college's efforts to meet the educational needs of the community. A special unique feature of Continuing Education classes is that they are scheduled to meet the special needs and requests of the community and do not follow the normal academic semester schedule.

Specifically, the activities of the Division of Continuing Education are guided by the following statement of purposes:

I. Offer opportunities to citizens of the community to pursue educational experiences which:

lead to re-training for new or up-dated careers in vocational or technological fields.

promote improvement of professional competencies.

enable the individual to broaden his cultural knowledge.

enhance the pursuit of avocational interests.

provide, within specified limits, full ac-

ademic credit for individuals enrolling in specialized courses established by the Division of Continuing Education.

II. Provide services to the community by organizing, sponsoring or co-sponsoring specialized short courses, workshops, and seminars designed to be of value to identifiable groups or organizations and to the public at large.

ADMISSIONS AND REGISTRATION PROCEDURES:

I. Admission is open to anyone who may profit from the class. In some instances, a competency level is needed to be eligible to enroll in an advanced class.

II. Enrollment is usually accomplished during the initial meeting of the class. If the class meets for four or more sessions, a student may enroll during the second session. Enrollment consists of the completion of a short form needed for report and roster purposes.

FEES:

The fees for the courses are paid during enrollment. Because of the diverse nature of programs offered through the Division of Continuing Education, registration fees vary from one offering to another. Fees are set by the Division and published at the time a particular program announcement is made.

NOTE: For information concerning programs being offered, fees, or suggestions for programs of interest to the community, contact the Director of the Division: phone 233-7192, extension 217.

EVENING AND SATURDAY PROGRAM

A variety of programs is offered at Missouri Western State College designed to meet the needs of the college community. These programs are identified as:

Degree Programs. In the fields of Business and Psychology, course work is designed to enable a student to complete the total requirements in the Evening and Saturday Program.

156 Professional and Career Advancement. Programs and courses in Evening and Saturday Programs are available for employees to upgrade their skills for professional or career advancement.

The office of the Director of Evening and Saturday Programs helps to identify the

needs and desires of the adult community and to coordinate these needs with the college program.

The Office assists the student in enrollment plans and serves as a communication center for both students and faculty in the Evening and Saturday Program.

A student who finds it necessary to withdraw from college while a semester is in session is required to notify the Records Office which is accomplished by contacting the Director of Evening and Saturday classes in person, by telephone or by letter. A student will be given a "failing" grade in each subject if the formal notification of withdrawal has not been made.

SUMMER SESSION

Missouri Western State College summer sessions are designed for:

Students who wish to accelerate their progress.

Students who carry only a partial course load during the regular semes-

ters.

June high school graduates who wish to get an advanced start in their college studies.

Missouri Western welcomes summer students from other collegiate institutions.

INFORMATION
ABOUT
PEOPLE



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December, 1977

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Computer Programmer Analyst
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Reference Librarian
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Coordinator of Planetarium
- Karen Miller**
Computer Programmer Analyst
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- Julia Schneider**
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Student Health Physician
- Rhesa Sumrell**
Coach and Coordinator of Women's Athletic Program
- Joe Vigliaturo**
Coordinator of Housing
- Dr. Eugene G. Wolanski**
Student Health Physician

Faculty — 1978-79

- ADAIR, MSG Paul**
Instructor of Military Science
- ADCOX, Jay D.**
Instructor of Physical Education and Assistant Football Coach
B.S. — Missouri Western State College
M.A. — Northwest Missouri State University

- ALLEN, Margaret**
Assistant Professor of Social Sciences
B.A. — Mississippi College
M.S.W. — Tulane University
- ANDERSON, Jerry**
Assistant Professor of Music
B.S. — Southwest Missouri State
M.M. — Wichita State University
- ANDRESEN, William**
Professor of Biology
B.A. — Wayne State Teachers College
M.S. — University of Nebraska
Ph.D. — University of Nebraska
- ARCHER, Leonard**
Assistant Professor of Chemistry
B.S. — Northwest Missouri State University
M.S. — University of Nebraska
- ASCHERMANN, Jerry**
Assistant Professor of Education
B.A. — University of Northern Colorado
M.S. — Utah State University
Ed.D. — Utah State University
- ASHWORTH, George M.**
Assistant Professor of Education
M.S. — Northwest Missouri State University
M.Ed. — University of Missouri
- ATKINS, Dana**
Assistant Professor of Humanities
B.A. — Colorado State University
Ph.D. — University of Nebraska
- BADE, Linda**
Instructor of Nursing
Nursing Diploma — Research Hospital and Medical Center
B.A. — Southwest Missouri State College
- BANDELIER, Robert L.**
Assistant Professor of Automotive Technology
B.S. — University of Missouri
M.S. — Northern Illinois University
- BARGAR, James**
Instructor of Psychology
B.A. — William Jewell College
M.A. — Southern Methodist University
- BISHOP, George**
Assistant Professor of Mathematical Sciences
B.S. — Northwest Missouri State University
M.Ed. — Kansas State Teachers College
- BOUTWELL, Richard**
Assistant Professor of Biology
B.S. — University of Nebraska
M.S. — University of Nebraska
- BOYER, Josephine**
Instructor of Nursing
B.S. — Madison College
- BUCKLES, Hilda**
Instructor of Nursing
B.S. — Missouri Western State College

CASTELLANI, Joseph

Associate Professor of English
B.S. — City University of New York
M.A. — Columbia University Teachers College
Ed.D. — Ball State University

CHELLINE, Warren H.

Associate Professor of English
B.A. — University of Missouri
M.A. — University of Missouri

COFFMAN, Cloyce (on leave)

Assistant Professor of Agriculture
B.S. — University of Missouri
M.S. — University of Missouri

CONN, Susan

Instructor of Art
B.A. — University of Missouri
M.A. — University of Missouri

CRITTENDEN, Cynthia

Instructor of Music
B.S. — Texas Women's University
M.A. — Texas Women's University

CRUMLEY, RICHARD

Professor of Biology
B.S. — Kansas State College
M.S. — Kansas State College
D.A. — University of Northern Colorado

CRUMP, Shirley

Assistant Professor of Education
B.S.Ed. — Northwest Missouri State University
M.S.Ed. — University of Missouri

DAUVE, Jan

Instructor of Agriculture
B.S. — University of Missouri
M.A. — University of Missouri

DEATON, Donald

Assistant Professor of Recreation
A.S. — Conners State College
B.S. — Northeastern Oklahoma State
University
M.S. — Colorado State University

DeGREGORY, Jerry L.

Instructor of Social Sciences
B.S. — Memphis State University
M.A. — Memphis State University

DILLEY, Gary

Instructor of Business
B.S. — Central Missouri State University
C.P.A.

DOBBINS, Larry

Associate Professor of Theatre
B.S. — University of Nebraska
M.A. — University of Nebraska
Ph.D. — University of Iowa

DOERR, Tempel

Instructor of Corrections
B.S. — Washington State University
M.A. — Sam Houston State University

DONALDSON, Ruth Ann

Assistant Professor of Social Sciences
B.S.E. — Northeastern State College
M.A. — University of Arkansas

DONNELLY, Vernon

Assistant Professor of Engineering Technology
B.A. — Kansas State Teachers College

DOWNEY, Sharon

Instructor of Secretarial Science
B.S. — Western Illinois University
M.S. — Northwest Missouri State University

DRUMMOND, Mary

Associate Professor of English
B.S. — St. Louis University
M.A. — St. Louis University

DUNCAN, John

Instructor of Agriculture
B.S. — Northwest Missouri State University
M.A. — Northwest Missouri State University

DYE, David

Instructor of Lawyer's Assistant
B.A. — University of Missouri/Kansas City
J.D. — University of Missouri/Kansas City

EASTER, Glenn

Instructor of Agriculture
B.S. — University of Missouri
M.E. — University of Missouri
Ed.S. — University of Missouri

EDWARDS, Nancy

Assistant Professor of Education
B.A. — Graceland College
M.Ed. — University of Missouri

ERICKSON, Charles

Professor of Physical Education and Chairman of
Health, Physical Education and Recreation
B.S. — Texas A&M University
M.Ed. — Texas A&M University
Ed.D. — North Texas University

ESTES, James R.

Assistant Professor and Chairman of Art
B.S. — Northwest Missouri State University
M.A. — Ft. Hays State College

FAUST, Christine R.

Instructor of Physical Education
B.A. — University of Northern Iowa
M.A. — University of Northern Iowa

FIELDS, Mary J.

Assistant Professor of Education
A.A. — St. Joseph Junior College
B.S. — Northwest Missouri State University
M.A.Ed. — University of Missouri

FILBERT, Gary

Assistant Professor of Physical Education
Head Basketball Coach
B.S.Ed. — University of Missouri
M.S. — Northwest Missouri State University

FLANAGAN, Frances

Professor of English
 A.B. — Mount St. Scholastica
 M.A. — University of Iowa
 Ph.D. — University of Iowa

FLESHER, LTC Franklin A.

Professor and Chairman of Military Science
 B.A. — University of Akron
 M.S. — University of Akron

FORCE, Harry

Associate Professor and Chairman of Biology
 B.S. — Alabama State Teachers College
 M.A. — George Peabody College

FRICK, Margaret

Assistant Professor of English
 B.S. — Drake University
 M.A. — University of Northern Colorado

GALLOWAY, Leo

Associate Professor of Biology
 B.S.Ed. — Kearney State College
 M.S. — University of Oklahoma
 Ph.D. — Texas Tech University

GALLOWAY, Ruth

Associate Professor of English
 B.A. — Nebraska State Teachers College
 M.A. — West Texas State University
 Ph.D. — Texas Tech University

GARREN, Bruce

Instructor of Speech
 B.A. — Wichita State University
 M.A. — Wichita State University

GETTYS, Helen

Professor of Education
 B.S. — University of Missouri
 M.Ed. — University of Missouri

GILGUN, John

Associate Professor of English
 B.A. — Boston University
 M.A. — University of Iowa
 M.F.A. — University of Iowa
 Ph.D. — University of Iowa

GILMOUR, Matthew

Professor and Chairman of Music
 B.M. — Missouri Valley College
 M.M. — University of Missouri
 D.M.A. — University of Missouri

GRECHUS, James W., Jr.

Instructor of Physical Education and Assistant
 Football Coach
 B.S. — Kansas State University
 M.S. — Central Missouri State University

GREENE, Bonnie J.

Assistant Professor of Physical Education
 B.S. — University of Arizona
 M.A. — Arizona State University

GREENWALD, Barry J.

Assistant Professor of Business
 B.S.B.A. — University of Denver
 M.S.B.A. — University of Denver
 C.P.A.

GRIMSLEY, Charles

Associate Professor of Theatre
 B.S. — Georgetown College
 M.A. — Northwestern University

GROH, Sharon L.

Assistant Professor of Music
 A.A. — St. Joseph Junior College
 B.S. — Park College
 M.M. — University of Missouri

HANSEN, Tom C.

Associate Professor of Education
 B.A.Ed. — Wayne State
 M.A. — Creighton University
 Ed.S. — University of Alabama
 Ed.D. — Northwestern State University

HARMON, Jeannie

Instructor of Art
 B.A.E. — University of Kansas
 M.F.A. — University of Kansas

HAWLEY, Lucretia

Instructor of Business
 B.S.B.A. — Central Missouri State University
 M.A. — Central Missouri State University

HAYES, James R.

Assistant Professor of Criminal Justice
 B.S. — Missouri Western State College
 M.S. — Central Missouri State University

HAYNES, S. Earl

Professor and Chairman of Education
 B.S. — Central Missouri State University
 M.S. — Central Missouri State University
 Ed.D. — University of Kansas

HAZELRIGG, Gary

Assistant Professor of Physical Education and
 Athletic Trainer
 B.S. — Northwest Missouri State University
 M.S. — Northwest Missouri State University

HECKEL, Achsah M.

Assistant Professor of Chemistry
 B.S. — Kansas State University

HICKLIN, Robin

Head Football Coach
 B.S. — Missouri Valley College
 M.S. — Central Missouri State University

HINRICHS, Susan

Assistant Professor of Mathematical Sciences
 B.S.B.A. — Central Missouri State University
 M.A. — Central Missouri State University
 Spec. — Central Missouri State University

HOAGLAND, Jeanne

Instructor of Nursing
 A.S. — Missouri Western State College
 B.S. — Missouri Western State College
 B.S. — Northwest Missouri State University

HOFFMAN, Rosemary L.

Assistant Professor of Modern Languages
 B.S. — Northwest Missouri State University
 M.A. — Middlebury College

- HOLMAN, Richard W.**
Associate Professor of Engineering Technology
B.S. — Northwest Missouri State University
M.A. — State College of Iowa
Ed.D. — University of Missouri
- HOOVER, Michael**
Assistant Professor of Social Sciences
B.A. — Southern Illinois University
M.A. — Southern Illinois University
Ph.D. — University of Tennessee
- HUGHES, John T.**
Associate Professor of Art
B.F.A. — Kansas City Art Institute
M.F.A. — University of Nebraska
- HUSTON, Bill**
Associate Professor of Mathematical Sciences
B.A. — Tarkio College
M.A. — Duke University
- ISON, Jerry**
Assistant Professor of Psychology
B.S. — Eastern New Mexico University
M.A. — Eastern New Mexico University
- JOHN, David**
Assistant Professor of Mathematical Sciences
B.A. — University of Iowa
B.S. — University of Iowa
M.S. — University of Iowa
- JOHNSON, Glen**
Associate Professor and Chairman of Agriculture
B.S. — Oklahoma State University
M.S. — Oklahoma State University
Ed.D. — University of Arkansas
- JOHNSON, Kenneth G.**
Assistant Professor of Mathematical Sciences
B.S. — University of Missouri
M.S. — University of Missouri
- JOHNSON, Martin**
Associate Professor of Psychology
B.A. — University of California
M.A. — Brigham Young University
Ph.D. — Brigham Young University
- JOHNSTON, Ernest A.**
Assistant Professor of Mathematical Sciences
B.S. — University of Kansas
M.S. — University of Kansas
- JORDAN, James R.**
Associate Professor and Chairman of Social Sciences
B.S. — Central Missouri State University
M.A. — University of Missouri
- KASSIMALI, Aslam**
Assistant Professor of Engineering Technology
B.E. — University of Karachi — Pakistan
M.E. — Iowa State University
M.S. — University of Missouri
Ph.D. — University of Missouri
- KEEGSTRA, Vickie**
Assistant Professor of Physical Education
B.A. — University of Northern Iowa
M.A. — Western Michigan University
- KELLEY, Bruce K.**
Assistant Professor of Mathematical Sciences
B.S. — Southwest Missouri State University
M.A. — Southwest Missouri State University
- KESSLER, Francis**
Associate Professor of Social Sciences
B.S. — St. Louis University
M.A. — St. Louis University
Ph.D. — University of Notre Dame
- KLOSE, Karl R.**
Professor and Chairman of Mathematical Sciences
B.S. — Bucknell University
M.S. — University of Alabama
M.A. — University of Alabama
Ph.D. — University of Alabama
- KRAMER, Charles**
Assistant Professor of Engineering Technology
A.A.S. — Lakeland College
B.S. — Southern Illinois University
M.Ed. — University of Missouri
- KUMP, Ferrell**
Assistant Professor of Education
B.S. — Brigham Young University
M.Ed. — Utah State University
Ed.D. — Utah State University
- LAMBING, Larry**
Associate Professor of Chemistry
B.S. — Kansas State College
M.S. — Kansas State College
Ph.D. — University of Missouri
- LAUDIE, Drew**
Associate Professor of Recreation
B.S. — Brigham Young University
M.S. — Brigham Young University
D.Ed. — University of Oregon
- LAVATELLI, Mark**
Assistant Professor of Art
B.A. — Cornell University
M.A. — University of Illinois
- LEE, Kenneth**
Associate Professor of Mathematical Sciences
B.S. — Augustana College
M.S. — University of Wyoming
D.A. — University of Northern Colorado
- LEECH, Jonathan**
Associate Professor of Mathematical Sciences
B.A. — University of Hawaii
Ph.D. — University of California/Los Angeles
- LONG, James**
Assistant Professor of Physical Education
B.S. — Southwest Missouri State University
M.Ed. — University of Missouri
- LOVELACE, Captain Robert**
Instructor of Military Science
B.S. — University of Mississippi
- McCAY, Christa**
Associate Professor of English
B.A. — Graceland College
M.A. — University of Wisconsin
Ph.D. — University of Wisconsin

McGINLEY, Sarah J.
Instructor of Nursing
B.S. — Central Missouri State University

McINTOSH, Michael
Assistant Professor of English
B.A. — Iowa Wesleyan
M.A. — University of Iowa

McLEAR, Patrick
Assistant Professor of Social Sciences
A.A. — Junior College of Kansas City
B.S. — Northwest Missouri State University
M.A. — University of Missouri
Ph.D. — University of Missouri

MACK, William G.
Assistant Professor of Music
Director of Bands
B.M.E. — Central Missouri State University
M.A. — Central Missouri State University

MAGOON, Michael
Assistant Professor of Modern Languages
B.A. — Drury College
M.A. — University of Missouri

MAHAFFY, Donald
Associate Professor of Education
B.S. — Midwestern State University
M.A. — North Texas State University
D.Ed. — Oklahoma State University

MARION, L. Marvin
Assistant Professor of Education
B.S. — Carson-Newman College
M.E. — University of Tennessee
Ed.D. — East Tennessee State University

MATTHEWS, George
Assistant Professor and Chairman of English and
Modern Languages
B.A. — Iona College
M.A. — DePaul University
Ph.D. — University of Iowa

MAXWELL, LeRoy
Assistant Professor of Criminal Justice
B.S. — Missouri Western State College
M.S. — Central Missouri State University

MEHL, James
Associate Professor and Chairman of Speech,
Theatre, and Humanities
B.S. — St. Louis University
M.A. — University of Missouri
Ph.D. — University of Missouri

MILLER, Richard
Associate Professor of English
B.S. — Northeast Missouri State University
M.A. — Northeast Missouri State University

MINNIS, Douglas
Assistant Professor of Physical Education
Head Baseball Coach
B.S.Ed. — Emporia Kansas State College
M.S. — Emporia Kansas State College

MITCHELL, John B.
Assistant Professor of Business
B.A. — University of Kansas
Lib. — University of Kansas
J.D. — University of Kansas

MITCHELL, Marian
Associate Professor of Business
B.S. — Northwest Missouri State University
M.S. — Central Missouri State University
Specialist — Central Missouri State University

NELSON, Jane
Assistant Professor of Art
B.A. — Scripps College
M.F.A. — University of Kansas

NOLAND, Kathy
Instructor of Nursing
B.S. — William Jewell College

PARMELEE, Louis
Assistant Professor of Mathematical Sciences
B.A. — University of Colorado
M.A. — University of Northern Colorado

PARMENTER, C. Irvin
Assistant Professor of Speech
B.S. — University of Nebraska
M.A. — University of Nebraska
Ph.D. — University of Colorado

PETTIJOHN, Charles
Instructor of Business
B.S. — Missouri Western State College
M.B.A. — Southwest Missouri State University

PETTIJOHN, James B.
Assistant Professor of Business
B.A. — William Jewell College
M.B.A. — Drury College

PHELAN, Elizabeth
Associate Professor of Social Sciences
B.S. — St. Mary's College
M.S. — Creighton University

PILGRAM, Henry
Assistant Professor of Social Sciences
B.A. — University of Missouri
M.Div. — McCormick Theological Seminary

PRICE, Thomas
Assistant Professor of Music
B.S. — Central Missouri State University
B.S.Ed. — Central Missouri State University
M.M. — Northwestern University

PROCK, Donald
Instructor of Small Engine Repair
B.S. — Kansas State College of Pittsburg

PYLE, Glenn
Assistant Professor of Business
B.S. — California State College
M.A. — Utah State University

RACHOW, Thomas E.
Associate Professor of Biology
B.S. — University of Iowa
M.A. — Southern Illinois University
Ph.D. — Southern Illinois University

RAGLAND, Tommie

Assistant Professor of Social Sciences
B.S. — Southern Illinois University
M.A. — Southern Illinois University
Ph.D. — St. Louis University

REDMOND, John

Associate Professor of Chemistry
B.S. — University of Missouri
M.S. — University of Missouri

RIEMER, Roberta

Associate Professor of Music
A.B. — Park College
M.M. — Northwestern University

RIPPLE, Joseph

Associate Professor of Social Sciences
B.S. — University of Southern California
M.A. — University of Northern California
Ph.D. — University of Colorado

ROBBINS, Donald J.

Associate Professor of Biology
B.S. — Kansas State College of Pittsburg
M.S. — Kansas State College of Pittsburg
Ph.D. — Kansas State University

ROGERS, Alfred

Associate Professor of Social Sciences
B.A. — Kansas State College of Pittsburg
M.S. — Kansas State College of Pittsburg
M.A. — University of Missouri
Ph.D. — University of Missouri

ROGERS, Marcia

Assistant Professor of Secretarial Science
B.S. — Texas Women's University
M.B.Ed. — North Texas State University

RUFFINO, Arthur

Associate Professor of Speech
B.S. — Central Missouri State University
M.A. — Central Missouri State University
Ph.D. — Southern Illinois University

LATOSI-SAWIN, Elizabeth

Instructor of English
B.A. — State University of New York
M.A. — University of Iowa

SAUVE, Captain Robert

Instructor of Military Science
B.S. — University of Arizona

SCHALLER, Ralph

Instructor of Art
B.F.A. — Wichita State University
M.F.A. — Wichita State University

SCHMITZ, Leo

Associate Professor of Mathematical Sciences
B.S. — University of Missouri
M.Ed. — University of Missouri
M.A. — University of Illinois

SCHWARZ, Richard

Assistant Professor of Chemistry
B.S. — Northwest Missouri State University
M.A. — University of Missouri
Ph.D. — University of Missouri

SCOTT, Terry A.

Assistant Professor of Mathematical Sciences
B.S. — Iowa State University
Ph.D. — University of Wyoming

SEGEBARTH, Geoffrey

Assistant Professor of Economics
B.A. — American University
M.A. — Syracuse University

SHAW, PAMELA

Assistant Instructor of Secretarial Science
B.S. — Missouri Western State College

SHEAR, Lawrence

Assistant Professor of Physical Education
Assistant Basketball Coach
B.A. — Tarkio College
M.A. — Appalachian State University

SHELL, Robert L.

Associate Professor of Modern Languages
B.S. — University of Illinois
Ph.D. — University of Illinois

SHROUT, Ethel

Professor of Business and Chairman of Business and Economics
B.S. — Northwest Missouri State University
M.S. — University of Missouri
Ed.D. — Oklahoma State University

SHUTTS, Ellis L.

Associate Professor and Chairman of Psychology
B.A. — Nebraska Wesleyan University
M.A. — University of Omaha
Ph.D. — University of Missouri

SMITH, Russell

Professor of Chemistry
B.S. — Wisconsin State University
Ph.D. — University of Iowa

SPARKS, Isabel L.

Associate Professor of English
B.A. — University of Kansas
M.A. — University of Missouri
M.Ph. — University of Kansas

STEINICHE, David

Associate Professor of Social Sciences
B.A. — Grinnell College
M.A. — University of Wisconsin
Ph.D. — University of Nebraska

STORER, Sheri

Assistant Professor of Secretarial Science
B.S. — Kansas State University
M.S. — Kansas State University

STRADER, Max

Assistant Professor of Economics
B.A. — North Carolina State University
M.A. — University of Florida
Ph.D. — University of Florida

TAPIA, John

Instructor of Speech
B.A. — California State University
M.A. — University of Massachusetts

TAYLOR, Albert J.

Assistant Professor of Business
B.S. — Central Missouri State University
M.A. — Central Missouri State University

TAYLOR, Richard

Associate Professor of English
B.S. — Northeast Missouri State College
B.J. — University of Missouri
M.A. — University of Missouri

TERRY, James

Associate Professor of Physical Education
B.S. — Tennessee Tech University
M.A. — Southwest Texas State University
Ph.D. — Texas A&M University

THOMAS, Frank

Assistant Professor of Music
B.M.E. — Wichita State University
M.M.E. — Wichita State University

UTZ, Judith

Instructor of Nursing
Nursing Diploma — Chicago Wesley Memorial
Hospital
B.S. — Northwest Missouri State University

WAGNER, Ronald L.

Assistant Professor of Speech
B.A. — University of Richmond
M.A. — University of Maryland
Ph.D. — University of Arizona

WANN, Phillip

Instructor of Psychology
B.A. — University of Missouri
M.A. — Carleton University

WEAR, James

Instructor of Theatre
B.A. — University of Texas
M.F.A. — University of Oklahoma

WILKERSON, Jerry

Associate Professor of Mathematical Sciences
B.S. — Central Missouri State University
M.S. — Central Missouri State University

WILLIAMS, Ivan

Instructor of Business
B.S. — Indiana University
M.B.A. — Eastern Illinois University

WILSON, Gary

Instructor of Agriculture
B.S. — New Mexico State University
M.A. — New Mexico State University

WISE, Birgit

Costumer and Publicity Supervisor
B.A. — Coe College
M.A. — University of Kansas

WISE, Sarah J.

Instructor of Business
B.B.A. — Washburn University
M.S. — Kansas State University
C.P.A.

ZWEERINK, Gerald

Associate Professor and Chairman of Chemistry
B.A. — Southwest Missouri State College
Ph.D. — University of Missouri

Professors Emeriti

AGENSTEIN, Evan R.

Professor Emeritus of Physics and Mathematics

DOHERTY, Mary Lee

Professor Emeritus of English

HARVEY, Marian V.

Professor Emeritus of Social Science

LACY, Louise

Professor Emeritus of Humanities and
Communications

MARION, Glenn E.

Professor Emeritus of Engineering Technology

McCANN, Willis

Professor Emeritus of Psychology

POPPELWELL, Frank S.

Professor Emeritus of Social Science

ROBERTS, Raymond

Professor Emeritus of Education

TOMLINSON, Veva

Professor Emeritus of English

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