

MISSOURI WESTERN

State College • St. Joseph, MO



1993-1994
College Catalog

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Academic Calendar

Fall 1993

Last Summer Registration/Orientation
Faculty Plan Days
Regular Registration & Orientation/Testing
Classes begin
Labor Day (holiday)
Mid-Term grades due
Student Activity Day (no classes)
Homecoming
Deadline for withdrawal from any/all classes
Thanksgiving vacation
Classes resume
Last day of classes
Final exams
Final grades due

Aug 16, Mon
Aug 17-18, Tue-Wed
Aug 19-20, Thr-Fri
Aug 23, Mon
Sept 6, Mon
Oct 20, Wed
Oct 22, Fri
Oct 23, Sat
Oct 29, Fri
Nov 24-28, Wed-Sun
Nov 29, Mon
Dec 11, Sat
Dec. 13-18, Mon-Sat
Dec. 21, Tue

Spring 1994

New Student Program
Registration
Classes begin
Martin L. King's birthday (holiday)
President's Day (holiday)
Mid-Term grades due
Deadline for withdrawal from any/all classes
Spring recess (no classes)
Classes end *
Final exams

Final grades due
Commencement

Jan 5, Wed
Jan 6-7, Thr-Fri
Jan 10, Mon
Jan 17, Mon
Feb 21, Mon
Mar 9, Wed
Mar 18, Fri
Mar 20-27, Sun/Sun
May 4, Wed (10 pm)
May 5, 6, 7, 9-11
Th, F, S, M, T, W
May 13, Fri
May 14, Sat

*Classes starting at 6:30 or later on Tuesday, May 3rd, will not be held. Monday evening classes that begin at 6:30 or later will be held then instead, in an effort to more evenly distribute the number of class meetings for each evening of the week. Only the evening class schedule will be changed on May 3rd; regular Tuesday classes that begin before 6:30 pm will meet during their normal class time on May 3rd.

Intersession 1994

Registration for intersession
in Continuing Education Office
Intersession classes held
Intersession final exams
Intersession grades due

May 2-12
May 12, 13, 16-21, 23-26
May 27, Fri
June 2, Fri

Summer School 1994

Summer school registration
(Preregistration allowed in April)
Summer school classes begin for 8-week &
first 4-week session
(Classes are held Mondays-Thursdays)
Last day to register or add classes
Final exams for first 4-week session
Registration for 2nd 4-week session
First day of second 4-week session
Grades due for first 4-week session
Offices closed for July 4th holiday
Final exams for 8-week and second 4-week
session
Final grades due

May 27, Fri
May 31, Tue
June 1, Wed
June 24, Fri
June 24, Fri
June 27, Mon
June 28, Tue
July 4, Mon
July 22, Fri
July 26, Tue



Missouri Western State College

Catalog 1993-94

College Telephone (816) 271-4200
Admissions (816) 271-4266

4525 Downs Drive, St. Joseph, Missouri 64507-2294

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SPECIAL

Students are expected to read the regulations and policies in both the College Catalog and Student Handbook and to conform to them. The student, not the College or a member of the faculty or staff, is primarily responsible for knowing the regulations and policies, and for meeting the requirements for a degree or certificate.

In keeping with the requirements of Title IX of the Education Amendments Act of 1972 in regard to sex discrimination and Section 504 of the Rehabilitation Act of 1973 in regard to handicap discrimination as well as other applicable federal and state laws, Missouri Western State College follows a policy of non-discrimination and equal opportunity in regard to all employment practices and to all educational programs and activities including student financial aid, recruitment, admission, housing and placement. Inquiries regarding the application of these laws may be submitted to Susan Robinson, Title IX, 504/ADA Coordinator, Administration Building Room 122, (816) 271-4287.

The College

With roots springing from a contiguous five-county region of northwest Missouri, Missouri Western State College has proudly served the higher education needs of its constituencies since 1915. Originally founded as Saint Joseph Junior College to provide a two-year liberal arts transfer program, Missouri Western was transformed into a four-year college in 1969 and became a full member of the State of Missouri system in 1977. Missouri Western values its close ties with those who established and nurtured this quality institution of higher education.

Accredited by both the Commission on Institutions of the North Central Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education, Missouri Western State College approaches its third decade with an enrollment of 5,000 students, with over 175 faculty, and with contemporary instructional and recreational facilities complemented by a beautifully landscaped campus.

Missouri Western State College enjoys a stable enrollment and strong support of the local community and region. In the 1990's, the College continues serving both the needs of its traditional students, who enter upon their graduation from high school, and of older students, who are seeking the opportunity to continue their education or develop their talents.

MWSC's Mission Statement

(Adopted by the MWSC Board of Regents on June 20, 1990)

Missouri Western State College is a public, state-supported institution providing a blend of traditional liberal arts and sciences and career-oriented degree programs. MWSC is authorized under Missouri statute to offer associate and baccalaureate degrees as well as certificate programs. Professional programs, programs for transfer students, continuing education opportunities, and self-enrichment courses are also offered. The College, based in a metropolitan region, serves both traditional and non-traditional students.

Missouri Western State College continues to honor its tradition of open access, believing that citizens should have the opportunity to pursue higher education. The College is committed to academic excellence and quality teaching, and provides a variety of special offerings, ranging from academic assistance to programs for honors students, all designed to meet the diverse needs of students. All students are expected to grow intellectually to meet the standards of an academic discipline and the College.

A balanced curriculum, responsive and evolving, emphasizes a well-planned general studies core, electives, and courses in majors. These educational experiences emphasize knowledge as a liberating force in one's life, enabling students to be critical thinkers, productive contributors to their society, and life-long learners. At Missouri Western State College, learning is viewed as a team process requiring the dedication of the students and the caring, informed guidance of well-qualified faculty and staff in a mutual pursuit of knowledge.

Goals of the College

Aware of its obligation to the state, to the student as a person and a seeker of knowledge, and to itself as an academic community committed to the increase of knowledge, Missouri Western State College, through its Board of Regents, has the following goals:

1. To provide educational opportunities suited to the varying needs by developing:
 - Bachelor degree programs in selected fields of the arts and sciences, education, technology, and business administration;
 - One-year certificates and two-year 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 needs of the community.
2. To provide an appropriate learning environment through the development of proper facilities and a strong faculty, and by supplying necessary auxiliary services and recreational and cultural opportunities.
3. To promote, within limits defined by prior claim of regularly enrolled students, the welfare of the community, not only through work in continuing education, but also through cultural, recreational, and athletic opportunities and appropriate services.

Foundation

The Missouri Western State College Foundation was established in 1969 as a separate entity to promote private giving and to help the college move into the forefront of public higher education. The Foundation encourages, holds, invests, and disburses private gifts of cash, securities, appreciated assets, and personal property, all toward the goal of providing services, programs, and facilities that cannot be provided through tax assistance and student fees.

Major gifts to the Foundation have contributed substantially toward the growth of the college and its continuous goal of excellence in such projects as the McGlothlan Microbiology Laboratory, Spratt Stadium, the Fine Arts Gallery, and the addition to the Hearnes Learning Resources Center.

In 1989-1990, the Foundation conducted its third major fund-raising drive, the "Western Share the Success" capital campaign. The campaign was very successful in obtaining private funds from individuals and corporations to augment state funding and provide the margin necessary to attain excellence. Areas of need that the campaign addressed included: academic excellence, student excellence, capital projects, and community service. The major goals were to support enhancing the quality of the education provided and to increase student financial access.

The Foundation also makes available specialized estate planning services without obligation.

The MWSC Foundation is a tax-exempt corporation; therefore, gifts made through it are tax deductible as appropriate. Its activities are directed by an independent, volunteer board of 32 persons who work closely with the college administration to identify needs and allocate funds.

Alumni Association

The MWSC Alumni Association, an independent, not-for-profit corporation, was established in 1970 to advance the educational interests of the college. The Association provides opportunities for alumni to stay in touch with Missouri Western.

Programs include sponsorship of the traditional Homecoming reception for alumni and friends, the Commencement Breakfast for graduating seniors, and the Alumni awards program. Many of the flowers and shrubs adorning the campus were planted through the beautification program of the Alumni Association.

The Faculty/Alumni Awards Program sponsored by the Association recognizes outstanding achievement by graduates of St. Joseph Junior College and Missouri Western and honors current faculty members for teaching excellence.

In 1985, the Alumni Association initiated an annual fund campaign for support of student scholarships, academic equipment, and student and faculty research projects.

The Association is governed by a twenty-four member board of directors, with a director providing liaison with the college.

MWSC Alumni receive *Griffalum*, a newsletter of college, alumni activities, events, and news.

Missouri Western Ambassadors

The Missouri Western State College Ambassadors is composed of community members who are interested in the college and what it offers to the community at large. They are an important bridge in providing information about the college and its programs.

Through their activities, the Ambassadors provide information about and access to the campus. In particular, they strive to make St. Joseph and surrounding communities aware of the educational, cultural and financial benefits of the institution. The Ambassadors either initiate programs of their own or cooperate with others in expanding existing programs which are helpful to the growth of the college and the community. Presently, the major focus of the Ambassadors is support of a scholarship that serves re-entry, non-traditional, students.

You are invited to join the Ambassadors and help both the college and the community. If you have questions regarding the Ambassadors, please contact the Office of College Relations.

Parents' Council

The Parents' Council was officially organized at a meeting of interested parents of MWSC students on May 3, 1986. This organization is the vehicle through which the college can keep in contact with parents concerning events and activities of the college. Parents can use the organization as a vehicle of communication to express their concerns, comments, and questions about the college.

Some activities of the council include Family Day in the fall, a spring meeting, monthly Sunshine Awards to students and eight scholarships awarded each year to students. Benefits to members include: receiving the Griffon News, Griffamily Newsletter, and other periodic mailings.

All parents of MWSC students are invited and encouraged to join the Parents' Council. For more information, contact the Dean of Student Affairs.

Griffamily Newsletter

The Griffamily Newsletter is published four times a year — twice each during the fall and spring semesters. The newsletter is sent to the parents of new students during their initial year at MWSC. The newsletter contains articles of information and interest about all segments of the college. The Griffamily Newsletter is also sent to members of the Parents' Council.

The Griffon



A griffon was chosen in 1918 as the symbol of Saint Joseph Junior College, the institution which later became Missouri Western State College. The mythical guardian of riches, half eagle and half lion, was selected because education was viewed as a precious treasure.

Admission

Recommended High School Core Classes

Missouri Western State College wants its students to succeed, so students need to prepare themselves academically for college classes. Experience has shown that students who have completed the following high school program are most likely to succeed in college. MWSC strongly recommends these high school courses for college bound students:

- 4 units of English, one of which may be speech or debate; two units must emphasize composition or writing
- 3 units of mathematics, including Algebra I, II and Geometry
- 2 units of sciences, including at least one lab science
- 3 units of social sciences
- 1 unit of visual/performing arts
- 3 units of electives, selected from foreign language and combinations of the above courses. Two units of foreign language are strongly recommended.

Early application is strongly encouraged

Starting in Summer 1992, only new students who have submitted a complete application file (including MWSC application, ACT scores, and transcripts) will be invited to the Summer Registration Orientation Programs.

Effective Fall 1992, new students enrolling in college for the first time must submit a complete application (including ACT scores and at least a seven-semester high school transcript) at least two weeks before registering for classes or they must pay a \$20 late application fee. New students who do not have the complete application by that time must also take appropriate placement tests (ACT residual, writing, and/or math) before registering for classes.

Limited Course Loads for Some Students

Effective Fall 1992, new students with enhanced ACT composite scores below 17 can only enroll in 14 credits their first semester.

Early Completion of Math and English Composition classes

Effective Fall 1993, all students must complete any developmental coursework (ENG 100, MAT 090, and/or MAT 095) within their first forty (40) credit hours earned at MWSC.

Effective Fall 1993, all new students must successfully complete ENG 108 and MAT 112 (or any higher level math course of three or more credits excluding MAT 132), as required in their degree programs, within their first sixty (60) credit hours earned at MWSC.

Students who do not successfully complete ENG 108 and MAT 112 (or its general studies math equivalent as listed in the college catalog) as required in their degree programs, within their first sixty credits earned at MWSC may *only* enroll in those class/classes until ENG 108 and MAT 112 (or its general studies equivalent) are successfully completed. Students will be restricted to only the English and/or math class(es) and will not be allowed to enroll in additional college coursework until ENG 108 and MAT 112/equivalent are successfully completed.

Admission Categories

Missouri Western State College serves students from a variety of educational backgrounds. Interested prospective students can identify the category under which they wish to seek admission.

Specified items under the appropriate category must be submitted and on file in the Office of Admissions before students can be officially admitted. Any student desiring to take credit courses must first be admitted to the College under one of the following categories.

1. **First Time In College**—students seeking a degree who have not previously attended any college or university.
2. **College Transfer** — students transferring to MWSC from another college or university.
3. **Special Student** — students who are not seeking a degree at Missouri Western State College.

First Time In College

To be admitted in this category, applicants must provide:

1. Completed application for admission form.
2. American College Test (ACT) results and profile. The ACT is required for advisement and course placement purposes. Furthermore, effective Fall 1992, new students with enhanced ACT composite scores below 17 can only enroll in 14 credits their first semester.
3. A high school transcript with seven semesters of work.
4. High school transcript documenting graduation or General Education Development (GED) equivalency certificate.
5. \$15 non-refundable application processing fee (This is a one-time fee required only with the initial application to MWSC.)
6. International students must contact the Admissions Office for additional criteria which include a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Deadline for admissions materials from international students is forty-five days prior to the first day of that semester's classes.

College Transfer

To be admitted to this category, applicants must provide:

1. Completed application for admission form.
2. Official transcript from each undergraduate college and university attended.
3. \$15 non-refundable application processing fee (This is a one-time fee required only with the initial application to MWSC.)
4. International students must contact Admissions Office for additional admission requirements. Deadline for admissions materials from international students is forty-five days prior to the first day of that semester's classes.
5. Transfer students who hold an Associate of Arts degree from an accredited Missouri public institution are considered to have satisfactorily completed MWSC's general studies requirements, and will be admitted at the junior-year level. There are some exceptions which will be evaluated course by course.

Missouri Western State College accepts a maximum of 64 credit hours from a community or junior college applicable toward the 124 credit hours required for a bachelor's degree.

MWSC adheres to the guidelines of the Missouri Articulation Agreement. Transfer course work is evaluated and awarded on the same basis as credit awarded at MWSC. Consequently, criteria used to evaluate currently enrolled MWSC students is equally applicable to transfer students. Applicants who are considering transferring to MWSC may refer to the Table of Academic Standards contained in this catalog to determine their academic status for transfer admission purposes.

Returning to MWSC

Students whose last attendance at Missouri Western State College was other than in the semester prior to that for which application is being made must provide:

1. Completed application for admission form to reactivate the file.
2. Official transcript from each undergraduate college and university which may have been attended since last enrolled at MWSC.
3. Payment of any prior financial obligation to MWSC.

Purposes of Certification

Students seeking postgraduate teacher certification, or other forms of professional certification for which MWSC has an academic program, are required to provide information as a college transfer or returning MWSC student as indicated previously.

Special Student

This category is for the student who is not seeking a degree or certificate at MWSC. Students under suspension from MWSC are ineligible to be admitted under this category. Students admitted under this category who later decide to seek a degree at MWSC must re-apply for admission in the appropriate admission category. Consult with the Office of Admissions with any questions concerning your admission status. All applicable credits earned while a special student will be applied to the new admission status.

Students who apply and are admitted under the category are not eligible for financial assistance through the College.

Self-Enrichment

To be admitted in this category, applicants must provide:

1. Completed application for admission form.
2. \$15 non-refundable application processing fee. (This is a one-time fee required only with the initial application to MWSC.)

Visiting High School Student

Students currently enrolled in high school who are seeking admittance to MWSC on a part-time basis concurrent with high school attendance must provide:

1. Completed application for admission form.
2. Certification and approval from the high school principal or counselor (required each semester prior to enrollment).
3. \$15 non-refundable application processing fee. (This is a one-time fee required only with the initial application to MWSC.)
4. Students must have completed junior year in high school.

Visiting College Student

Students who are attending another college or university and wish to take courses at Missouri Western and then transfer the MWSC course work to the parent institution for degree applicability must provide:

1. Completed application for admission form.
2. Letter of Good Standing from the parent institution which reflects the student is academically eligible.
3. \$15 non-refundable application processing fee. (This is a one-time fee required only with the initial application to MWSC.)

Senior Citizen Registration

Persons 60 years of age or older may register without fee payment commencing with regular registration. Time of actual enrollment will be determined by the category of admission (Degree Seeking or Special Student). All Senior Citizens should make their status known at the Business Office during registration to assure correct fee assessment. Senior Citizens desiring to register for Continuing Education courses should contact the Continuing Education Office regarding fee assessment.

1. Completed application for admission form.
2. \$15 non-refundable application processing fee. (This is a one-time fee required only with the initial application to MWSC).

Non-traditional Credit

Missouri Western State College may accept a total of 30 hours work (maximum applicable to a degree) obtained through non-traditional credit or credit by examination.

Credit earned through the United States Armed Forces Institute (USAFI) in accordance with the recommendation of the Commission on Accreditation of Service Experiences of the American Council on Education, extension work from regionally accredited institutions of higher education, and correspondence work from regionally accredited institutions of higher education are generally recognized if documented by written records from the U.S. government and institutions of higher education.

Credit by Examination

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

Credit for general studies courses may be obtained by taking the College-Level Examination Program (CLEP) General Examinations. Credit for major field courses may be obtained by taking a CLEP Subject Matter Examination 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.

Applicants are eligible to receive credit by examination only if they:

- have earned traditional college credit at MWSC before credit by examination is entered on the transcript,
- are not enrolled in a course for which an examination is requested,
- are granted written permission by the director of counseling and testing before taking the exam (unless it is the CLEP General for a first-time college student).

Students are not eligible to receive credit by examination if they have:

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

If the student is a transfer, he or she must have complete transcripts of previous college credit in the Registrar's office before written permission for the test-out will be granted. Students are ineligible to take a test for credit by examination if the credit they would earn on that test makes them eligible for graduation at the end of that semester.

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

The CLEP Examinations are administered through the Office of Counseling and Testing on the Missouri Western State College campus. In addition to this on-campus test site, the CLEP is administered at various locations throughout the nation. Applications should be completed and returned to the Office of Counseling and Testing four weeks prior to the test dates (for a list of dates and fee information, write to the Office of Counseling and Testing, SS/C 101, Missouri Western State College).

A minimum of a 500 scaled score must be attained on the CLEP General Examinations for the student to receive credit. The table in the next section lists the five CLEP General Examination areas and indicates how credit earned is awarded in the general studies program at Missouri Western State College.

Credit by examination also may be received in specific subjects. A booklet listing subject areas that have been approved as well as the testing instruments selected for each subject is available in the Counseling Office. Successful performance on a subject test is determined by the academic department which administers the course.

Applications for subject examinations may be acquired from the Office of Counseling and Testing. The test dates are available in the Office of Counseling and Testing.

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. Students should contact the Office of Counseling and Testing before taking a CLEP subject examination to determine whether or not that particular examination is acceptable for obtaining credit.

The two types of subject examinations are:

- Single-level subject-matter tests: The student is required to take a separate test for each course for which he or she desires to obtain credit. For additional information, the student should contact the Office of Counseling and Testing.
- Multi-level subject-matter tests: In the case of sequence courses, an academic department may offer a single test to determine proficiency in the skills and knowledge demanded by the courses in that sequence. The student will be given credit for each course in the sequence for which he or she demonstrates the minimum standards of proficiency as designated by the academic department.

If the 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 Counseling and Testing. However, \$5 of the original fee paid will be retained for processing.

CLEP General Tests and Credit Hours

	Credits		Credits
English		<i>Subscores</i>	
<i>General studies requirement met</i>		Relatively equal subscores	
ENG 100 and	3	<i>General studies requirement met</i>	
ENG 104	3	Groups 1 and 3 in Humanities	6
Humanities		<i>Subscores</i>	
<i>Subscores</i>		High in Literature, Low in Fine Arts	
High in Fine Arts		<i>General Studies requirement met</i>	
<i>General studies requirement met</i>		Groups 1 and 2 in Humanities.	6
Groups 1 and 3 in Humanities	6		

	Credits
Mathematics	
General studies requirement met	
<u>MAT 116</u>	<u>3</u>

Natural Science

Subscores

Higher in Biological, lower in Physical

General studies requirement met

BIO 101 6

Procedures for Test Out

1. Every course available for Test Out must be listed in the Credit by Examination book distributed by the Office of Counseling, Testing, Career Programs, and Placement (hereafter in this document referred to as the Test Center). Any exceptions to this procedure must be approved by the Admissions and Graduation Committee.
2. There will be only three test dates during the year (in the Fall, the Spring, and the Summer). Any testing date exceptions must be approved by the Admissions and Graduation Committee. The only time exceptions will be granted will be when academic placement for the ensuing semester is dependent upon the demonstration of proficiency levels.
3. Tests should be CLEP in nature or developed by the individual MWSC academic department when such a test is not available or applicable. It is recommended that the preparing and scoring of each Test Out examination be done by at least three members of the departmental faculty. All Test Out examinations will be coordinated through the Testing Center. In the case where specific equipment is needed for a performance-based Test Out (such as Foreign Language, Secretarial Science, Computer Science), the Test Out will consist of a performance portion and an objective portion, each being weighted equally. The performance portion of the Test Out will be administered and scored in the academic department and the objective portion of the Test Out will be administered and scored by the Testing Center. If specific expertise is needed in grading the Test Out, then the Test Out will consist of two equally weighted portions both administered by the Testing Center. One portion must be designed so it can be graded by the Testing Center, with the academic department providing the key; the other portion is graded by the academic department. In each case, where there are two portions to the Test Out, the student must receive a 70% on each portion to pass the test. All the test forms and statements of performance level expectations will be on file in the Testing Center before the Test Out is administered. Instructors of classes for which Test Outs are being administered will provide the Testing Center with three equated forms of the Test Out examination.

The following guidelines for Test Out must be strictly adhered to:

1. Complete the Petition for Test Out form, available in the Office of Counseling, and return to the Office of Counseling and Testing, 30 days prior to the test date.
2. Fees for the Test Out are payable in the Business Office (A-220), 30 days prior to the test date and are payable as the student is completing the Test Out Petition.
3. The student will receive further information about time and location of testing from the Office of Counseling, Testing and Placement.
4. Test Outs which are originated on the MWSC campus in any other manner than the above procedure will be considered invalid.

The approved procedures and guidelines for Test Out should include a statement of expectation from the Vice President for Academic Affairs.

The nature of this statement of expectation should reflect that Test Out procedures in MWSC academic departments are expected to include student performance in the Test Out at or above the "C" grade level. The academic departments are expected to monitor their procedures and operate in the spirit of this expectation.

	Credits
<i>Subscores</i>	
Lower in Biological, higher in Physical	
<i>General studies requirement met</i>	
One of the following:	
CHE 101 or	6
<u>PHY 101</u>	<u>6</u>

Social Science and History

General studies requirement met

Groups 1 and 2 of

Social Science and History 6

Advanced Placement Program Tests

Several departments at MWSC give credit for Advanced Placement Program Tests. They include Biology; Chemistry; Computer Science, Mathematics and Physics; English, Foreign Languages and Journalism; and Social Sciences. Information regarding specific course credit should be obtained from the department housing the course.

Required Placement Tests For New College Students

Effective Summer 1992, new students must submit a complete application (including ACT scores and at least a seven-semester high school transcript) at least two weeks before registering for classes or they must pay a \$20 late application fee. New students who do not have a complete application file at that time must also take appropriate placement test (ACT residual, writing, and/or math) before registering for classes.

ACT Test Schedule 1993 - 94

Test dates

Registration deadlines (regular fee)

October 23, 1993	September 24, 1993
December 11, 1993	November 12, 1993
February 5, 1994	January 7, 1994
April 9, 1994	March 11, 1994
June 11, 1994	May 13, 1994

Additional Required Tests

In order to measure student progress toward educational goals, students may be asked to participate in periodic assessment efforts at MWSC. Grades, transcripts, and graduation will be held if a student does not participate in this required testing.

English Honors

Entering students who pass the Writing Placement Examination administered by the Department of English, Foreign Languages, and Journalism and who score above the 90th percentile on the English section of the American College Test (ACT) are ordinarily placed in ENG 112, Honors Composition and Rhetoric, and upon its successful completion are also awarded 3 credit hours in ENG 104, Composition and Rhetoric. This process fulfills the college's written composition requirements in general studies. The English major who successfully completes this program enters ENG 224, Advanced Composition and Literature, a course required of all English majors.

Non-resident Credit

Transfer, test-out, and extension credit may be evaluated and recorded on a transcript only during the time a student is enrolled as degree seeking at Missouri Western State College, except when special arrangements have been made with the academic vice president, division dean, or department chairperson and a copy of the agreement is on file in the Registrar's Office.

Students who plan to take coursework at other institutions prior to their graduation are required to secure approval before attempting the work. Information and appropriate forms are available in the Registrar's Office.

False/Misleading Information

Any student who misrepresents, falsifies, or withholds required information will be referred to the Admissions and Graduation Committee for review and appropriate action. Such action may result in dismissal from MWSC.

Ten-Year Old Credit

College credit more than ten years old cannot be used as part of the student's major requirement unless approved by the department where the student has declared that major. College credit more than ten years old can be used to fulfill general education or elective requirements for a degree if any of the credit is applicable. This determination will be made by the Registrar's Office.

FINANCIAL AID

The College's financial aid program is designed to assist degree seeking students in their pursuit of a higher education at Missouri Western. This chapter is organized to provide the basic information about kinds of financial aid, the procedure for applying, appropriate forms, and enough detail about specific financial aid opportunities at Missouri Western for you to get started. The value of a higher education will enrich your life in many tangible and intangible ways. At Missouri Western, we stand ready to assist you in arranging for financial access to that most important goal. However, the major responsibility rests with you. We hope that if you desire to pursue a college education, you will not let costs deter you from your goal.

Application

Who Should Apply?

ANYONE! If you are not sure, but feel that you might need financial aid to pursue a degree program, you should read this section carefully and inquire further for details on aid programs. Frequently, students find themselves short of the financial resources required to pursue college. **IF YOU NEED AID, YOU SHOULD APPLY.**

Who Do I Ask?

Start by reading this chapter thoroughly. We have packed a lot of information into these pages and the answers to most questions will be found right here. However, two other sources of information are ready to assist as well:

MWSC Office Of Financial Aid: The friendly staff of the Missouri Western State College Office of Financial Aid knows financial aid in all of its varied forms. They will answer questions and help you plan the best package of financial aid for your needs. See the section later on "Financial Aid Packaging." The office is located on campus in room 112, Student Services/Classroom (SS/C) building. The office telephone is (816) 271-4361. Read this chapter carefully, gather as much of the information as you can, have your questions ready, and contact the office. Many students request assistance. Be patient.

Your Counseling or Guidance Office: If you are in high school, your school counseling guidance personnel are prepared to assist in the financial aid process. They will have the right forms to complete for Federal and college aid programs. They can either answer most of your questions or direct you to other sources for the answers.

Financial Access

The Cost Of A College Education

Missouri Western provides a quality higher education. Cost is a part of the process. The following simplified budgets represent average costs to attend Missouri Western. Actual costs will vary due to differing personal circumstances.

Sample Annual Budgets for Two Semesters

The following budgets represent the average costs for attending Missouri Western State College for the current school year. These figures are used as references in calculating need for financial aid assistance.

Missouri Residents	<i>Living at home</i>	<i>All Other housing</i>
Tuition and fees	\$1,900	\$1,900
Room and Board	1,600	2,500
Books and Supplies	500	500
Travel	500	600
Personal/Miscellaneous	1,500	1,500
Total	\$6,000	\$7,000

Non-Residents	<i>Living at home</i>	<i>All Other housing</i>
Tuition and fees	\$3,700	\$3,700
Room and Board	1,600	2,500
Books and Supplies	500	500
Travel	500	600
Personal/Miscellaneous	1,500	1,500
Total	\$7,800	\$8,800

Paying For It!

Students are expected to assist in the financing of their college educations to the extent possible by using previous savings, earnings from summer employment and, if it should be necessary, a part-time job in conjunction with other financial aid at Missouri Western. Parents are expected to contribute funds from their income and other assets. The amount expected from parents is the difference between the student's total expenses and the amount of anticipated student earnings and financial aid.

Financial Access

Financial Access is a short way of saying that Missouri Western knows that it is critical to have the funds needed to attend college. Many potential students who have the ability, desire, and need to acquire a college education find themselves without sufficient financial resources to pursue their degree goals. If they can't attend because of money, then it is a personal, regional, and national loss. Missouri Western is making a serious, concerted effort to ensure that students of ability and desire have financial access to a higher education.

Kinds of Financial Aid

Several major categories of student aid are available. Following is a brief listing of the kinds of financial aid available. Later in this booklet we have included a more detailed (but still brief) description of the many financial aid opportunities available at Missouri Western. You should seek funds from one or several sources of aid as appropriate to your situation.

Federal

FEDERAL GRANTS: Funds from these two major programs are based on need and do not have to be repaid.

- Federal Pell Grants (formerly: Basic Educational Opportunity Grants - BEOG)
- Federal Supplemental Education Opportunity Grants (FSEOG)

FEDERAL COLLEGE WORK STUDY: This cooperative program with colleges provides flexible part-time work for students in college (and off-campus) offices and departments. Students qualify on the basis of need and these earnings do not have to be repaid.

FEDERAL LOAN PROGRAMS: Funds obtained through these three major federal loan programs must be repaid to the lending source. Financial need must be established.

- Federal Perkins Loans (Formerly National Direct Student Loans)
- Federal Guaranteed Student Loans (FGSLs)
- Federal Plus Loans (Federal Parent Loans)
- Federal Supplemental Loan for Students (FSLs)

State

STATE GRANTS: Funds from the several Missouri grant programs assist qualified students with tuition and fees. These funds do not have to be repaid.

- Missouri Council on Public Higher Education (COPHE) Scholarships
- Missouri Higher Education Academic Scholarship Program
- Missouri Student Grant Program
- Missouri Teacher Education Scholarships
- Robert C. Byrd Honors Scholarship

College Aid Programs

INTERNSHIPS: A limited number of internships worth \$2,720 in conjunction with part-time work in an area complementing a student's major.

LOANS: The College offers limited short-term emergency loans. These loans must be repaid within the same semester.

WORK: The College provides opportunities for part-time work and assists in the location of part-time work in the community.

STS SCHOLARSHIPS: STS is a unique student and community supported scholarship program that provides awards to full- and half-time students. These funds do not have to be repaid.

COLLEGE FEE STIPENDS: The College grants full- and half-tuition fee scholarships to students who qualify through high attainment at the high-school, community college, or through the GED test. These funds do not have to be repaid.

DEPARTMENTAL FEE STIPENDS: As an extension of the College Fee Stipend program, Missouri Western grants varied awards through the academic departments to assist students who qualify. These funds do not have to be repaid.

DEPARTMENTAL SCHOLARSHIPS: Numerous scholarships originating from various sources of support provide a wide range of awards for students in many programs. These funds do not have to be repaid.

Affiliated Scholarships (March 1 Deadline)

WITH SPECIFIC REQUIREMENTS: Numerous scholarships funded through private sources provide a wide range of awards for students who qualify in specific ways. These funds do not have to be repaid.

WITHOUT SPECIFIC REQUIREMENTS: Other numerous scholarships funded through private sources provide a wide range of awards for students with less specific requirements for qualification. These funds do not have to be repaid.

SCHOLARSHIPS SELECTED BY DONORS: Several scholarships are available through the College in which the selection is made entirely by the funding organization. These funds do not have to be repaid.

Graduate Fellowship Program

Missouri Western is most fortunate to have privately supported funds to provide assistance to our graduates who qualify and go on to pursue graduate study. These funds do not have to be repaid.

How To Apply

After first applying for admission to MWSC, applicants for Federal, State and most College financial aid opportunities must complete the Free Application for Federal Student Aid application. (FAFSA) Exceptions to this requirement are noted in the detailed description of financial aid opportunities.

If the applicant wants to be considered for several aid options, then he/she should obtain the specific application blanks called for and complete those forms as well. This process is not as complex as it may sound; additional information and application forms may be obtained from the Office of Financial Aid.

Application Procedure

- The applicant should obtain the Free Application for Federal Student Aid from his or her high school guidance office or from the MWSC Office of Financial Aid. These materials are available January 1 of each year.
- The forms must be completed and mailed by March 1 to ensure that the April 1 priority deadline is met. Be sure to indicate that you wish your results forwarded to Missouri Western State College.
- This information will then be forwarded to all agencies as instructed on the forms. This process takes approximately four weeks.
- On or before April 1 of each year the student should complete the federal financial aid process by submitting to the MWSC Office any additional information as requested.
- The Federal Pell Grant program will forward a copy of the Student Eligibility Report (SAR) to the student. The student then must submit this SAR to the Office of Financial Aid at Missouri Western.

Other Application Procedure

For the many financial aid opportunities which do not require the Free Application for Federal Student Aid - 1) the Applicant should complete the appropriate College application form and 2) meet the requirements specified for the aid opportunity. You are urged to apply for several kinds of financial aid that suit your situation.

Renewal

Returning students must complete the process each year to be eligible for aid. Students must be making satisfactory academic progress to remain eligible for federal and other kinds of aid.

These procedures should be started in the early spring before the school year for which financial aid is needed. Four weeks should be allowed for processing.

If in doubt, ask questions! GOOD LUCK!

Primary Financial Aid Packaging

The Office of Financial Aid at Missouri Western is responsible for packaging aid for most applicants. However, many scholarship and aid opportunities are administered through other channels who do not package aid, but rather manage individual funds. Comments on how these awards are determined follows after this section.

The primary process for determining financial aid includes the federal aid programs and is based upon knowledge of several important aspects of a student's financial situation. Central to that process is the Free Application for Federal Student Aid as noted before. In packaging financial aid, the Office of Financial Aid considers (1) grants, (2) workstudy, and (3) loans (in that order). The Office tries to meet each student's needs without the use of loans whenever possible.

The base of all packaging is the Federal Pell Grant (formerly BEOG). The results of the Federal Pell application go to the student in the form of a Student Aid Report (SAR). Students must present the SAR to the Office of Financial Aid for interpretation of the award. The award is then presented to the student in check form, not to exceed one-half (1/2) of the total award each semester.

The next assistance considered is Federal Work-Study (FCWSP) and/or Federal Perkins Loans (formerly NDSL). Work Study enables the student to receive both financial assistance and job experience while in school. A Federal Perkins Loan enables the student to borrow the funds he or she may need to cover educational costs. Repayment of the loan begins six (6) months after the student is no longer enrolled as at least a half (1/2) time student.

Federal Supplemental Education Opportunity Grants (FSEOG) are considered next in the packaging process. These funds are limited and go only to students demonstrating greatest need.

Students are given consideration for any other assistance they have applied for or may be eligible to receive.

All financial aid awarded will first be credited against the student's institutional charges at Missouri Western State College.

Any time a student does not desire the package offered, he/she may come to the Office of Financial Aid (SS/C112) and request a change in the package. If the funds are available in the programs desired, and the student is eligible to receive these funds, the package can be rearranged to meet the student's needs.

Determining Other Financial Aid

Many financial aid opportunities involve private or college funds which do not require the Free Application for Federal Student Aid application process. These opportunities are noted in the detailed descriptions. Determination of financial aid in these instances is the responsibility of the College Scholarship Committee and/or the specific manager of the fund. The procedure varies and it is best to verify the individual process involved.

Awarding Of Financial Aid

April 1 of each year is the deadline date for all college administered financial aid; this is the date when the completed application must be in the Office of Financial Aid at Missouri Western State College. At that time applications are considered, awards made, and the students notified. Applications will be accepted after April 1, but chances of receiving financial assistance will be much less since most institutionally awarded aid will have already been awarded.

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

Your application file should contain the following:

- Appropriate application forms and any other information requested by the Office of Financial Aid.
- Free Application for Federal Student Aid

You are responsible for insuring that your file is complete. The staff of the Office of Financial Aid does not have the time to follow up individually to remind you of missing parts to your application.

This procedure should be started in the early spring before the school year for which financial aid is needed. Four weeks should be allowed for processing. Financial aid is packaged for the academic year. Aid is therefore distributed in equal amounts at the beginning of each semester unless otherwise indicated. **Satisfactory academic progress must be maintained to remain eligible for financial aid.**

SATISFACTORY ACADEMIC PROGRESS NEEDED TO MAINTAIN FEDERAL FINANCIAL AID ELIGIBILITY

In order to be eligible to receive federal student aid, a student must be making satisfactory academic progress. Both grade point average, and the time that a student takes to reach his/her educational degree, are factors which must be evaluated when measuring satisfactory academic progress.

The grade point portion of academic standing at Missouri Western State College is based on the Table of Academic Standards listed in our college catalog. Financial aid will continue to use this table in measuring the academic portion of satisfactory progress. You will be notified of your academic standing by academia. However, in measuring the time frame for satisfactory progress towards a degree, as of July 1, 1988, the federal government has determined that all first time student aid recipients shall have five (5) years or ten (10) semesters of full-time enrollment equivalency to complete their degree. (Classes taken for audit do not count as hours attempted.) Should you fall below this progressive time frame you will become ineligible to receive federal financial aid. To re-establish eligibility for federal financial aid a student must indicate the reason for failure to maintain hours attempted. If you feel there are extenuating circumstances for your hours attempted to have fallen below standard, you must submit in writing these reasons and provide proof when applicable.

This documentation will be reviewed by an appeals panel and you will be notified, in writing, of their decision.

Should your appeal be denied, or should you choose not to appeal at all, you may re-establish your eligibility to receive federal financial aid by establishing a record of successfully completing all classes taken without the assistance of federal financial aid.

It's Worth It!

For all the hard work, trauma, time and costs, when you finish, nothing equals the life-long value or the feeling of accomplishment for having completed your college degree. On successive pages, we have listed brief summaries of the financial aid opportunities available to you. Best wishes.

Detailed Listing Financial Aid Opportunities

Additional information about each of these opportunities is available from the Office of Financial Aid, SS/C 112, 271-4361. In directions for information and/or application, the MWSC Office of Financial Aid is referred to as OFA. The Free Application for Federal Student Aid is referred to as FAFSA. Other application information is specified for each financial aid opportunity.

Federal

FEDERAL PELL GRANT (BASIC EDUCATIONAL OPPORTUNITY GRANT): The Federal Pell Grant (Basic Grant) program is the government's largest student aid program, and it is the starting point for most students seeking financial aid. Awards range from \$200 to \$2,300. The actual amount the student receives depends on the financial information reported on the application. (FAFSA required) (Info - OFA)

FEDERAL SUPPLEMENTAL EDUCATION OPPORTUNITY GRANTS (FSEOG): These grants are awarded on the basis of need and may range from \$100 up to \$4,000 depending on need and availability of funds. (FAFSA required) (Info - OFA)

ROTC 4, 3, 2-YEAR NATIONAL SCHOLARSHIPS: Includes payment of full tuition, books, lab & activity fees, and \$1000 tax-free subsistence for each school year, for the duration of the scholarship. Qualifications: Minimum ACT score of 17, medically qualified, and U.S. citizen. (FAFSA not required) (Info - Military Science Dept.)

FEDERAL COLLEGE WORK STUDY PROGRAM: Prospective students who qualify under the guidelines of the Federal College Work-Study Program may be employed part-time during college and in the summer months preceding the academic year. The number of hours of employment per week is determined by the financial need of each qualified student, his/her academic schedule, and amount of other assistance. Federal Work-study funds are usually divided equally throughout the year. To receive these funds, a student must work the hours allowed each month. Time sheets are submitted monthly, and the student will be paid at least minimum wage for hours worked that month. (FAFSA required) (Apply - OFA)

FEDERAL PERKINS LOANS (Formerly: NATIONAL DIRECT STUDENT LOANS): This is a low-interest (5%), long-term government loan program from which eligible students may be granted substantial loans to supplement other income for educational purposes. Federal Perkins loans are made possible by a matching grant from MWSC. (FAFSA required) (Info - OFA)

FEDERAL STAFFORD LOAN (Formerly GSL's): Variable low-interest long-term loans made to students by lenders such as banks, credit unions, or savings and loan associations. Need must be established for the student to be eligible to receive this loan. (FAFSA required) (Info - OFA)

FEDERAL PLUS/FSLs LOANS: These loans provide additional funds for educational expenses. The interest rate for these loans is 12%; the loans are made by lenders such as banks, credit unions, or savings and loan associations. (FAFSA required) (Info - OFA)

State

MISSOURI COUNCIL ON PUBLIC HIGHER EDUCATION'S (COPHE) SCHOLARSHIPS: Eight \$1,000 scholarships will be offered to outstanding seniors from the state's public colleges and universities who are completing undergraduate preparation for teaching careers in mathematics, biology, chemistry or physics at the elementary and secondary levels. Scholarship recipients will be chosen by a committee made up of representatives of COPHE's institutions and awards will be based on accomplishments already achieved. (FAFSA not required) (Apply & Info - OFA)

MISSOURI HIGHER EDUCATION ACADEMIC SCHOLARSHIP PROGRAM: Offered to Missouri high school seniors who have scored in the top 3 percent on either the ACT or SAT test and are attending an eligible Missouri college or university. May be renewed. Students will be contacted directly by the Missouri Coordinating Board of Higher Education. Application deadline, Feb. 15.

MISSOURI PROFESSIONAL AND PRACTICAL NURSE LOAN PROGRAM:

Applicant must be a Missouri resident for one or more years for purposes other than attending an educational institution and have applied for acceptance into a full-time course of study leading to a bachelor of science in nursing at Missouri Western State College. The amount of the loans awarded, maximum of \$5,000 a year, will be determined by the educational costs and personal financial information provided by the applicant. (FAFSA required) (Info-OFA & Nursing Dept.)

MISSOURI STUDENT GRANT PROGRAM: The Missouri Student Grant Program is a financial assistance program enabling qualified full-time students to receive educational services in a public or private institution of higher education of their choice. The grant will not exceed the lesser of one-half of tuition and fees or \$1,500. The deadline for filing for this grant is April 30. (FAFSA required) (Info-OFA)

MISSOURI TEACHER EDUCATION SCHOLARSHIP PROGRAM: The Missouri Teacher Education Scholarship Program is a one-time, nonrenewable award of \$2,000 to encourage top-ranking Missouri high school seniors, or college freshmen or sophomores to start a career in teaching. Applicants must rank or have ranked in the top 15 percent of their high school class or have scored in the top 15 percent on the SAT, ACT or SCAT exams. The scholarship program is administered by the Missouri Department of Elementary and Secondary Education. Application deadline, Feb. 15. (FAFSA not required) (Apply & Info- OFA or Education Dept.)

ROBERT C. BYRD HONORS SCHOLARSHIP: The Missouri Department of Higher Education is conducting this program in cooperation with the U.S. Department of Education. One time awards of \$1,500 will be provided to entering freshmen students with top academic standing. (Info - OFA)

College Aid Programs

Honors Program

DONALD E. HARDMAN INSIGNIS SCHOLARSHIP: The Insignis Scholarship is a comprehensive award sponsored each year by the MWSC Foundation which provides the top five outstanding incoming freshmen with four-year renewable scholarships valued at approximately \$3,000 per year. Requirements proposed for Insignis candidacy include: ranking in the top 10% of the high school class; an overall GPA of 3.5 for all high school coursework; rank at approximately the 90th percentile on the ACT; evidence of involvement in extra-curricular activities; satisfactory completion of a personal interview; and participation in the Honors Program. Application deadline, Feb. 1. (Info - Honors Office, A315)

Internships

ACADEMIC INTERNSHIP PROGRAM: These are work experience assignments directly related to the student's academic major. Under this program a student is assigned to an administrative office with a requirement to work 15-20 hours per week during the academic year in exchange for a College Fee Stipend worth \$2,720. Students should secure the approval of the prospective department or office prior to application. (FAFSA not required) (Apply - Vice President for Academic Affairs)

Loans

INSTITUTIONAL LOANS: The college has various student loan funds available to enrolled students. These funds are used to loan worthy and needy individuals the money necessary for emergency needs. The interest charged for the use of these funds is minimal. Liberal repayment schedules are available; however, the loan is a short-term emergency loan and must be paid back the same semester. (FAFSA not required) (Apply - MWSC Business Office)

- **AMY SINGLETON MEMORIAL ART SCHOLARSHIP:** Established in memory of Amy Singleton, former art department secretary. An annual scholarship will be given to an art major who has completed 30 credit hours. Selection of the recipients will be by a committee from the art department. (Apply - Art Dept.)

ATHLETICS

- **ATHLETIC SCHOLARSHIPS:** The College offers 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 stipend of all or part of fees incurred. (Apply - Athletics Dept.)
- **E.R (GENE) BERGER MEMORIAL SCHOLARSHIP:** Interest from this memorial fund will be available to an individual participating in baseball. (Apply - Baseball Coach)
- **CHRIS FAROS SCHOLARSHIP:** A scholarship will be awarded to a senior football player at the beginning of his last academic year. The recipient must be the senior who has the most excellent performance, academically and athletically, for Missouri Western State College based upon the following considerations:
 - o Cumulative grade point average
 - o Athletic performance per potential
 - o Qualities — desire, dedication, leadership commitment, humility, personal discipline, industry, character & courage.
 - o Professional promise in chosen field of interest (Info - Head Football Coach)
- **MAX W. AND EMMA LEE GROOMS MEMORIAL SCHOLARSHIP:** This scholarship will be awarded to a student athlete who has financial need and has shown satisfactory academic progress. Preference will be given to a fifth year athlete. (Apply - Athletic Dept.)
- **MISSOURI GOLF ASSOCIATION SCHOLARSHIP:** Criteria varies. (Apply - Athletic Dept.)
- **PAT SIMMONS MEMORIAL MEN'S BASKETBALL SCHOLARSHIP:** To be awarded to a men's basketball player who has completed his athletic eligibility and needs a fifth year of study to receive his degree. (Apply - OFA)

BIOLOGY

- **JOHN RUSHIN AND DAVID ASHLEY BIOLOGY SCHOLARSHIP:** Established by Simon and Monya Rositzky in recognition of the service to the college by Dr. John Rushin and Dr. David Ashley, the recipient of this scholarship must be a declared biology major with interest in the field of biology. The recipient must have a cumulative college grade-point average of 3.0. The eligible recipient must demonstrate financial need; with all other factors being equal, financial need may be the determining factor in the selection process. (Apply - Biology Dept.)
- **MIKE SONNENMOSER BIOLOGY SCHOLARSHIP:** An endowment established by the family of Mike Sonnenmoser funds a scholarship available annually to a freshman student declaring biology as a major. The scholarship is renewable for eight semesters upon maintaining a 3.0 GPA (both cumulative and in the major). The student should rank in the upper 10% of their high school graduating class and have scored an ACT composite of 22 or above. Deadline for application is May 1. The recipient will be named by a biology department selection committee. (Apply - Biology Dept.)

BUSINESS AND ECONOMICS (Feb. 1 deadline)

- **ACADEMIC EXCELLENCE SCHOLARSHIP:** Business and economics majors who have accumulated 75 hours, 21 of which are in business and economics, with at least 12 of the 21 hours completed at Missouri Western, and who have a minimum GPA of 3.0, with a 3.5 GPA in business and economics courses, are eligible to apply for this \$300-a-year scholarship. (Apply - Business/Economics Dept.)
- **BECKER CPA REVIEW SCHOLARSHIP:** Provides full tuition for the Becker CPA Review Course held in Kansas City, MO. Recipient must be an accounting major graduating in December or May. Will be selected on the basis of academic achievement (GPA 3.7 or higher). (Apply - Business/Economics Dept.)
- **LISA & TIM BINGAMAN MEMORIAL SCHOLARSHIPS:** Two \$300 memorial scholarships have been established for a male and female freshman student demonstrating need with interests in business or marketing. Candidates for these awards must be in the top 25% of their high school classes and be residents of Buchanan County. (Apply - Business/Economics Dept.)

- **CLIFTON - GUNDERSON ACCOUNTING SCHOLARSHIP:** Accounting major, full-time student. Factors for consideration – GPA, need, performance in accounting classes, involvement in campus and community activities. Worth \$200. (Apply - Business/Economics Dept.)
- **OVID CROUCH MEMORIAL SCHOLARSHIP:** Applicant must be degree-seeking and have declared a major in the Department of Business & Economics; must have completed 60 credit hours with a minimum cumulative GPA of 3.0 and demonstrate financial need. (Apply - Business/Economics Dept.)
- **FINANCIAL EXECUTIVES INSTITUTE SCHOLARSHIP:** Candidate must have completed junior year, be a full-time student, have declared a major in accounting or finance. Academic achievement, faculty recommendations, and participation in outside activities will be the primary considerations for selection. Worth \$1000. (Apply - Business/Economics Dept.)
- **BOB FRASER SCHOLARSHIP:** This scholarship is to be awarded to a degree-seeking student with a declared business major, who has a minimum classification of sophomore, is a graduate of a public high school in the greater St. Joseph area, has a cumulative GPA of 2.75 and demonstrated financial aid. (Apply - OFA)
- **BARRY J. GREENWALD ACCOUNTING SCHOLARSHIPS:** Four \$100 scholarships awarded to entering freshman accounting majors from any Missouri high school; should rank in the top ten percent of graduating class. (Apply - Business/Economics Dept.)
- **JUDITH HAUSMAN TEXTBOOK AWARD:** This award for textbooks will be presented to either a junior or senior accounting major with a grade-point average of 3.0 or higher. Recipient may be a full- or part-time student. (Apply - Business/Economics Dept.)
- **KEN HAWK ACCOUNTING SCHOLARSHIP:** Accounting major, full-time student. Factors for consideration – GPA, need, performance in accounting classes, involvement in campus and community activities. Worth \$200. (Apply - Business/Economics Dept.)
- **JIMMY MUSALEK MEMORIAL SCHOLARSHIP:** Accounting major, junior or senior status, GPA of 3.0 or higher in major courses, full-time status, MO or KS resident, financial need. \$100 to be applied to tuition and/or books only. (Apply - Business/Economics Dept.)
- **NORTHWEST CHAPTER OF MISSOURI SOCIETY OF CERTIFIED PUBLIC ACCOUNTANTS SCHOLARSHIPS:** Students who have good academic skills, show some financial need, are presently in the junior year and will be a senior the following fall, possess leadership qualities, and are enrolled in a four-year accounting program are eligible for this scholarship, to be presented each spring semester. December 1st application deadline. (Apply - Business/Economics Dept.)
- **SANDERS, MOGG & ASSOCIATES ACCOUNTING SCHOLARSHIP:** Accounting major, full-time student. Factors for consideration – GPA, need, performance in accounting classes, involvement in campus and community activities. Worth \$250. (Apply - Business/Economics Dept.)
- **HELEN TAYLOR ACCOUNTING SCHOLARSHIP:** Accounting major, full-time student. Factors for consideration – GPA, need, performance in accounting classes, involvement in campus and community activities. Worth \$500. (Apply - Business/Economics Dept.)

CHEMISTRY

- **BOEHRINGER INGELHEIM:** This award was established by Philips Roxane, Inc. (now named Boehringer Ingelheim), for one or more students who have demonstrated academic excellence in the field of chemistry. Recipients must be declared chemistry majors and have at least a 3.0 GPA in the major courses. Recipients will be named by a chemistry department selection committee. (Apply - Chemistry Dept.)
- **J. B. BRUCE CHEMISTRY SCHOLARSHIP:** This scholarship will be awarded to a chemistry major. The major may be either a full-time or part-time student. (Apply - Chemistry Dept.)
- **HILLYARD CHEMISTRY SCHOLARSHIP:** Recipients of the scholarship shall be juniors and seniors who have declared a major in chemistry and who have demonstrated academic achievement in that area. (Apply - Chemistry Dept.)

COMPUTER SCIENCE, MATHEMATICS AND PHYSICS

- **COMPUTER SCIENCE SCHOLARSHIP:** Students who are declared majors in computer science or computer information systems and have completed 12 credits of computer science courses in the major with a minimum 3.0 GPA are eligible to apply. These scholarships are funded by donations received through the Alumni Association Phonathon and are awarded each semester. (Apply - Computer Science Dept.)
- **GEORG FRIEDRICH RIEMANN AWARD:** This \$200 scholarship is given to a declared mathematics major selected by the mathematics faculty in recognition of significant accomplishment in the study of mathematics, and demonstrated potential for continued growth and success in the mathematical sciences. The awardee must have completed at least 60 hours but not more than 105 hours, including the hours during the semester of selection. (Apply - Math Dept.)

CRIMINAL JUSTICE

- **JAMES ROBERT HAYES CRIMINAL JUSTICE SCHOLARSHIP:** Established by Simon and Monya Rositzky in recognition of James Robert Hayes' contribution to the community as chief of police, this scholarship will be awarded to a criminal justice major. The recipient must have obtained junior status and have a grade-point average of 3.0 or higher. (Apply - Criminal Justice Dept.)
- **KELLY GENTRY MURPHY MEMORIAL SCHOLARSHIP:** Awarded to a junior or senior student majoring in criminal justice who has demonstrated financial need and has a GPA of 3.2 or higher. (Apply - Criminal Justice Dept.)

EDUCATION

- **GEORGE M. ASHWORTH MEMORIAL SCHOLARSHIP:** Recipients of this scholarship shall be a junior or senior, majoring in elementary or middle school education, and from northwest Missouri. They must have a grade-point average of 3.0 or better and demonstrate need. (Apply - Education Dept.)
- **ELEANOR COTTRELL MEMORIAL SCHOLARSHIP:** The Department of Education is offering a \$100 scholarship from the Eleanor Cottrell Memorial Scholarship Fund to a re-entry student with a declared major in elementary education to help further his/her professional education. (Apply - Education Dept.)
- **ALBERTA CROSS HAYNES TEACHING SCHOLARSHIP:** Dedicated to the memory of Alberta Cross Haynes, a pioneer elementary teacher in rural Missouri and an early member of Kappa Delta Pi. Eligible applicants must be declared elementary majors at Missouri Western State College, preferably from a rural background, and meet all requirements for membership in Kappa Delta Pi. Awarded annually in perpetuity by the sponsors of Kappa Delta Pi and/or the chairperson of the Department of Education. (Apply - Education Dept.)
- **THE KAPPA DELTA PI OUTSTANDING JUNIOR SCHOLARSHIP FOR ELEMENTARY & SECONDARY STUDENT AWARDEES:** The award is given to one student in elementary education and one student in secondary education. The two scholarships differ from the other departmental scholarships in that the students do NOT apply for the scholarship. It is awarded by the education faculty in the spring of each year after students have been enrolled in their "Experience in Teaching II" course. As evidence of superior academic achievement and leadership skills, the students must be members of Kappa Delta Pi, the national education honor society for undergraduates in education. The amount of the award will vary as the scholarship fund increases. Alumni of the college are welcome to give to the fund as a part of their annual giving program. (Apply - Education Dept.)
- **DR. L. MARVIN MARION PROFESSOR EMERITUS SCHOLARSHIP:** This scholarship will be awarded to a secondary education major in English or social studies. Recipient must have a 3.2 grade-point average or better, high moral standards and long range goals for a career in the teaching profession. (Apply - English Dept.)
- **JANET GORMAN MURPHY/CATHERINE HENNESSEY GORMAN TEACHING SCHOLARSHIP:** Applicants for this scholarship must be a junior education major with an ACT score of 25 or higher and a GPA of 2.8 or above. (Apply - OFA)

- **MILDRED I. WORLEY MEMORIAL SCHOLARSHIP:** Dedicated to the memory of Mildred I. Worley, a lifetime supporter of education, the Department of Education offers a scholarship to a re-entry, full-time student with a declared major in elementary education. The recipient may be male or female and must show need for assistance with college expenses. Deadline for application is May 1 of each year. The scholarship is awarded August 1. (Apply - Education Dept.)

ENGINEERING TECHNOLOGY

- **RONALD C. EISIMINGER MEMORIAL SCHOLARSHIP:** Family and friends of Ronald C. Eisiminger have established a memorial scholarship fund to benefit construction engineering students. Applicants must be full-time, degree-seeking students at Missouri Western State College. They must demonstrate evidence of scholastic ability and financial need. (Apply - Eng. Tech. Dept.)

ENGLISH

- **JOSEPH & MINNIE DOHERTY SCHOLARSHIP:** Established by Mary Lee and Virginia Doherty in memory of their parents. Scholarship will be awarded to a junior or senior student majoring in English with a cumulative GPA of 2.5. Financial need will be a consideration in the selection process. (Apply - OFA)
- **IRENE ERTMAN MEMORIAL TRAVEL AWARD:** Established by Tau Mu Chapter of Sigma Tau Delta, international English honor society, in memory of a deceased colleague. This scholarship will help with expenses to send a Sigma Tau Delta member to a conference at which he/she gives a paper. The applicant must have a 3.0 GPA, both cumulative and in English. (Apply to the Department of English, Foreign Languages and Journalism whenever the applicant's conference proposal has been accepted.)
- **FRANCES FLANAGAN BOOK SCHOLARSHIP:** Dr. Frances Flanagan, long-time department member and former chair, established this scholarship for a Sigma Tau Delta member to help purchase books for the fall semester. The applicant must have a minimum 3.0 GPA, both cumulative and in English. (Apply - Department of English, Foreign Languages and Journalism by April 1 for use in the fall semester.)
- **ISABEL RICE SPARKS RECOGNITION SCHOLARSHIP:** The Department of English, Foreign Languages, and Journalism established this scholarship in honor of Isabel Rice Sparks, long-time department member, former chair, and international president of the honor society, for an English major or minor who has a minimum 3.0 GPA, both cumulative and in English. Applicants who have participated in departmental activities are preferred. (Apply - Department of English, Foreign Languages and Journalism by April of the applicant's sophomore year for use in the fall semester.)
- **RICHARD B. TAYLOR MEMORIAL SCHOLARSHIP:** The Department of English, Foreign Languages and Journalism established this scholarship to honor a former colleague with an interest in journalism. The applicant must be a declared journalism minor with junior standing; have a 3.5 GPA, both cumulative and in journalism; and have experience on the *Griffon Yearbook* or the *Griffon News*. (Apply - Department of English, Foreign Languages and Journalism by April 1.)

HEALTH, PHYSICAL EDUCATION & RECREATION

- Four \$500 scholarships will be awarded to majors enrolled in at least one professional preparation in Physical Education, Leisure Management, or Exercise Science. Applicants must have completed 60 credits, have an ACT of 20 or above, have a cumulative GPA of 3.0 or above, and have documented need. Pick up scholarship application from the HPER office or call 271-4491. Applications are due May 1st for the following fall semester. (Apply - H/PE/R Dept.)
- **EXCELLENCE IN DANCE:** Applicants may be majoring in any area. They must, however, have a 3.0 GPA and be a member of Missouri Western State College Dance Company. (Apply - H/PE/R Dept.)

MUSIC

- **CMENC SCHOLARSHIP:** Awarded to a junior or senior music major with involvement in the music department. Applicant must be a member in good standing of CMENC and have a 3.0 cumulative GPA. Student will be required to furnish a short essay on personal philosophy of music education. Applicant will be chosen by the music education faculty, a student representative member of CMENC, and the department chairperson based on the criteria above. (Apply - Music Dept.)
- **ROBERT C. FERGUSON SCHOLARSHIP:** This scholarship shall be available annually, on the basis of merit in performance, to one incoming student woodwind player. The scholarship shall pay for the applied music fees for as long as the recipient remains at MWSC, subject to annual review by appropriate instrumental instructors and juries. Students shall be selected by the music department faculty. (Apply - Music Dept.)
- **ALFRED LAURENT SCHOLARSHIP:** The criteria and amount of this award are being determined at this time. (Apply - Music Dept.)
- **MUSIC ENDOWED SCHOLARSHIP:** Criteria varies. (Apply - Music Dept.)
- **ROBERTA AND LOUIS RIEMER STRINGS SCHOLARSHIP:** Roberta and Louis Riemer Strings Scholarship provides participation grants in string performance for MWSC students playing in the Missouri Western State College Philharmonic, as well as studying privately. Applicants must audition for conductor. (Apply - Music Dept.)
- **HELEN TRAPP MUSIC SCHOLARSHIP:** Criteria is being established. (Apply - Music Dept.)

NON-TRADITIONAL STUDENT CENTER

- **EUGENES. JUDA FAMILY SCHOLARSHIP FOR NON-TRADITIONAL STUDENTS:** This scholarship is awarded to non-traditional students who are half-time or full-time, can show financial need, and have at least average grades. (Apply - Non-Traditional Student Center)
- **WILFRED H. KISKER SCHOLARSHIP:** The family of Wilfred H. Kisker has established an endowed scholarship for a non-traditional, degree seeking student. This individual must have completed at least 12 credit hours at Missouri Western with a GPA of 3.0 and demonstrated financial need. (Apply - Non-Traditional Student Center)
- **LINGLE FAMILY SCHOLARSHIP:** The Lingle Family Scholarship assists women twenty-five years of age or older who are re-entering school. They must take at least six credit hours, be progressing toward a specific degree and demonstrate financial need. This may be applied for year round. (Apply - Non-Traditional Student Center)
- **MISSOURI WESTERN AMBASSADORS' RE-ENTRY SCHOLARSHIP:** Scholarships will be awarded to part- or full-time students, 25 years of age or older. Must be at least a half-time student and must have completed the "Career Aptitude Series" available at MWSC's counseling center. (Apply - Non-Traditional Student Center)
- **MIGNON DESHON/AMBASSADORS' SCHOLARSHIP:** This endowed scholarship will be given to a second semester freshman full-time student, 25 years of age or older, with a 3.5 GPA. The recipient will receive it each year as long as a 3.5 GPA is maintained. (Apply - Non-Traditional Student Center)

NURSING

- **DR. WALLACE McDONALD NURSING SCHOLARSHIP:** This scholarship was established in honor of Dr. Wallace McDonald by the family of Rose Hirsch. Applicants should be at least juniors majoring in nursing with a grade-point average of 3.0 or better, and have demonstrated financial need. (Apply - Nursing Dept.)
- **MISSOURI WESTERN NURSING SCHOLARSHIP:** Ten \$1,000 scholarships will be awarded jointly by the Heartland Health Foundation and the MWSC Foundation. The criteria for receiving this scholarship will be the following: a minimum of 12 college credits completed, including one lab science; a minimum of 3.0 cumulative grade point average; a statement of interest in professional nursing; a statement of reason for scholarship application; and a statement of prior awards and current scholarships. The recipients will be selected by the MWSC Department of Nursing and a representative of the Heartland Health System. (Apply - Nursing Dept.)

- **MARSHA COOPER NURSING SCHOLARSHIP:** Established in memory of Marsha Cooper, a former member of the faculty in the Department of Nursing. Awarded to a student majoring in nursing and who has outstanding achievement and/or scholarship. (Apply - Nursing Dept.)
- **MISSOURI METHODIST NURSING SCHOLARSHIP:** The Missouri Methodist Nursing Scholarship was endowed in 1986 to honor the memory of the 1942 graduating class of the Missouri Methodist Hospital. Through the efforts of Peggy Cravens Iffert and class members, nurses, friends, local physicians and friends of Missouri Western State College, the endowment has been successful in awarding two \$1000 scholarships to worthy students each year. Students interested in this scholarship must have completed at least 30 semester hours of college work with a 3.0 GPA and be an associate degree nurse or an RN wishing to acquire a baccalaureate degree. Make application to Department of Nursing or Office of Financial Aid. All applicants will be invited for a personal interview with a representative of the scholarship committee. (Apply - Nursing Dept.)
- **PEGGY CRAVENS IFFERT SCHOLARSHIP FOR NURSING:** This endowment was created by Peggy Cravens Iffert, RN, after a long and rewarding career in the nursing field. The endowment produces three \$1000 nursing scholarships each year. This scholarship was established to provide assistance to students with a demonstrated financial need and interest in pursuing a baccalaureate degree in nursing as full time students. Preference will be given to high school graduates holding diplomas, candidates with a two year associate degree or candidates who have satisfactorily completed a minimum of 30 semester hours of college work with a 3.5 or better GPA. All applicants will be invited to have a personal interview with a representative of the scholarship committee. (Apply - Nursing Dept.)
- **PUBLIC HEALTH NURSING SCHOLARSHIPS:** Scholarships are offered to students enrolled in the nursing program who show financial need. (Apply - Nursing Dept.)

PSYCHOLOGY

- **WILLIS H. McCANN SCHOLARSHIP:** This scholarship is available to a first- or second-semester senior majoring in psychology who has and maintains a 3.0 GPA, both cumulative and in the major. The award will be made on the basis of financial need and vocational aspirations. Deadline for applications is April 1. (Apply - Psychology Dept.)

SCIENCE

- **THE BLUESIDE CO. INC. SCHOLARSHIP:** This scholarship has been established for students from northwest Missouri or northwest Kansas majoring in the science fields with a 3.0 GPA (Apply - OFA)
- **SCIENCE SCHOLARSHIP FUND OF MWSC:** Interest from this fund provides scholarships for students who have completed at least one semester successfully at MWSC and are interested in pursuing a pre-professional degree in science. Need, scholastic ability, and commitment are also selection factors. (Apply - Chemistry or Biology Depts.)

SOCIAL SCIENCE

- **OPAL KEARBY SCHOLARSHIP AWARD:** Students majoring in social science are eligible to apply for one of these awards. (Info & Apply - Social Sciences Dept.)

COMMUNICATION STUDIES, THEATRE AND HUMANITIES:

- **BLOCK THEATRE SCHOLARSHIP:** This scholarship, set up by the Paul A. Block family in his memory, is an award to be given annually to a full-time MWSC student participating in theatre production. Applicants must maintain a minimum GPA of 2.5 in the major field and a minimum of 2.0 overall. Financial need may be a factor considered in making awards. (Apply - CS/T/H Dept.)
- **DRAKE THEATRE SCHOLARSHIP:** This scholarship, established with a part of the estate of the late Dottie Drake, is given annually to a full-time MWSC student participating in theatre productions. The award may be up to \$600 per academic year. Applicants must maintain a minimum GPA of 2.5 in the major and a minimum GPA of 2.0 overall. Financial need may be a factor considered in making awards. (Apply - CS/T/H Dept.)
- **ROBIDOUX RESIDENT THEATRE SCHOLARSHIP:** This scholarship is available annually to a full-time MWSC student participating in theatre productions. Applicants must have a GPA of 2.5 or higher in the major field and a minimum GPA of 2.0 overall. Financial need may be a factor considered in making awards. (Apply - CS/T/H Dept.)

- **V. FRAN QUAMMAN SCHOLARSHIP:** This award was established by friends and relatives of Fran Quamman, a former MWSC instructor in the communication studies department. The interest from the trust fund is used each year to award a scholarship to encourage potential in the area of forensics. Applicants will be screened by a panel of judges selected from the speech faculty. (Apply - CS/TH Dept.)

Affiliated Scholarships

Affiliated scholarships are available on a competitive basis 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 by April 1. Copies of the applications will be distributed to all members of the MWSC Scholarship Committee for review. The Scholarship Committee will meet on or before April 15, and will notify all applicants of its decisions by May 1. Generally students applying for scholarships should have at least a 2.0 GPA and be a full-time student.

Scholarships are organized into three general categories: 1) **those with specific requirements** or 2) **those without specific requirements** and 3) **those selected by donors**. The Free Application for Federal Student Aid is required for these scholarships.

Scholarships With Specific Requirements For Eligibility

(The Free Application for Federal Student Aid is required for these scholarships except for M. O. Looney Community Service Scholarships.)

ADCO/MWSC SCHOLARSHIP: Applicants must be full time, degree seeking students at MWSC who are dependents of ADCO employees with at least one full year of service. They must demonstrate evidence of scholastic ability and financial need. (Apply - ADCO Personnel Office or OFA)

NELLE BLUM SCHOLARSHIP: Established in memory of Nelle Blum, former dean of the St. Joseph Jr. College. This scholarship is awarded to degree-seeking students in Business and Economics or Education who have completed 60 credit hours, have a GPA of 3.0 and have demonstrated financial need. (Apply - OFA)

BYRNE LOGAN MEMORIAL SCHOLARSHIP: This \$500 scholarship will be awarded to a full-time student with 30 hours or more with an interest in and participation in Military Science. Priority will go to a Business major first. (Apply - OFA)

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 students enrolled in a nurses' program. (Apply - OFA)

BURGER KING SCHOLARSHIP: Applicant must have worked 28 hours or more for 18 consecutive months at Burger King. A 2.5 GPA or better must be maintained to remain eligible for this scholarship. Award varies with class status. (Apply - Burger King)

CULVER-GETTYS MEMORIAL SCHOLARSHIP: This scholarship is given in memory of Lt. Col. Charles M. Culver and Capt. Hugh M. Gettys. The scholarship is available to a man or woman who has completed a minimum of 28 college hours. The student should have a cumulative GPA of 2.5 or better and show evidence of financial need. The scholarship shall be in the amount of \$100 for the first semester, and, if the student continues to achieve a cumulative GPA of 2.5, may be continued for the second semester. Preferably, the student should be planning a career in education. (Apply - OFA)

DUBACH SCHOLARSHIP FOR HUMANITARIAN CAREERS: The Dubach Scholarship will be awarded to an individual with a planned career goal in Christian ministry (including sacred music), nursing or special education. The recipient(s) shall have a minimum high school GPA of 3.0. Renewal and continuance of the scholarship is possible through the completion of an MWSC degree; however, reapplication is required each year. (Apply - OFA)

EASTSIDE ROTARY CLUB: The Eastside Rotary Club has established a scholarship of \$275 per semester for a qualified individual majoring in a field leading to a career in business, industry, public service, or health care. Once awarded, the scholarship may be retained as long as the student maintains a 2.5 cumulative GPA. (Apply - OFA)

ESSON SCHOLARSHIP: In honor of J. Douglas and Susan H. Esson, this scholarship will be awarded to two junior and two senior students pursuing a degree in nursing or the liberal arts field. Awardees must have a 3.2 GPA; and junior recipients may re-apply the second year. (Apply - Dean of Liberal Arts & Sciences Office)

FARMERS INSURANCE GROUP OF COMPANIES SCHOLARSHIP: Farmers Insurance Group has established scholarships for sophomores, juniors, and seniors in the fields of insurance, mathematics, business administration, personnel, and other areas related to the insurance industry. (Apply - OFA)

JOSEPH J. DROHER MEMORIAL SCHOLARSHIP: Two scholarships, 1 Engineering and 1 Theatre, will be awarded yearly to students in those majors having a GPA of at least 3.0. Selection will be done within the respective departments. (Apply - OFA)

MR. AND MRS. CLARK C. GLAZE SCHOLARSHIP: A scholarship fund has been established by Mr. and Mrs. Clark C. Glaze, the interest from which is to be available as a scholarship. If used by a student in a pre-medical course, the scholarship is to be known as the Emily B. Glaze Scholarship. If used by a student in pre-engineering, the scholarship will be known as the Clark C. Glaze Scholarship. (Apply - OFA)

M. KARL GOETZ SCHOLARSHIP: This scholarship is to be awarded to an incoming freshman majoring in business. Recipients may re-apply by maintaining a 3.0 G.P.A. (Apply - OFA)

ELLIOTT GOLDMAN AND LIBBIE LORAIN GOLDMAN SCHOLARSHIP: This endowed scholarship fund, established in 1980 by Elliott Goldman and his sister Libbie Loraine Goldman in memory of their parents, Dora and Ruben Goldman, and of their brothers, Dr. Nathan L. Goldman and Abe Goldman, is to be available annually to students who demonstrate leadership abilities, academic excellence, and financial need. Each scholarship will be in the amount of current annual in-state tuition and fees. Recipients must be full-time residents of Buchanan County and full-time students. All students may apply. However, preference will be given to junior and senior students who plan to apply for admission to law school and students majoring in art or business administration. (Apply - OFA)

PAUL F. AND ELISABETH KEES TRUST FUND: This scholarship is given in memory of Paul F. Kees and is awarded by the Scholarship Committee upon recommendation of the Department of Education. Applicants should be full-time students in good standing with a definable hearing loss. Students with other exceptionalities or who have demonstrated an interest in special education may be considered. (Apply - OFA)

KIEFER SCHOLARSHIP FUND: Bequests by Miss Katherine Kiefer and Miss Josephine Kiefer established this fund to benefit men and women living in the St. Joseph, Missouri or Wathena, Kansas area. Interest from the fund is available annually. (Apply - OFA)

M.O. LOONEY COMMUNITY SERVICE SCHOLARSHIP: The M. O. Looney Scholarship is available to an upper division, full-time student with a record of community service. A GPA of 3.0 or above on a 4.0 scale is required. The maximum for a junior will be in the \$500-\$700 range; for a senior who is a first time recipient, up to \$1,000. Should a student be awarded the scholarship the second year, the award could be in the \$1,300-\$1,500 range. (FAFSA not required) (Apply - Dean of Students Office, separate form required)

DeSOTO McCABE MEMORIAL SCHOLARSHIP: The DeSoto McCabe Memorial Scholarship has been established to fund one scholarship to a student who demonstrates financial need through the Free Application for Federal Student Aid, 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 is awarded one semester at a time. (Apply - OFA)

Scholarships Selected By Donors

(The Free Application for Federal Student Aid is not required for these scholarships.)

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 woman with 60 or more hours. (Apply - OFA or a member of the organization)

AMERICAN BUSINESS WOMEN'S ASSOCIATION AWARD: Officers of the organization select the recipient. The award is made on the basis of scholastic achievement and financial need. Information concerning applicants is forwarded to officers of the organization who make the final selection and inform the student well in advance of the time for final registration at the college. (Apply - OFA or a member of the organization, separate application required)

GREATER ST. JOSEPH JAYCEES ACHIEVEMENT SCHOLARSHIP: Recipient of this scholarship must be an incoming freshman who has graduated from a St. Joseph high school. This individual must be a good citizen, actively involved in extracurricular activities and have demonstrated need. (Apply - OFA)

MARY BODER MEMORIAL SCHOLARSHIP: A \$1,000 scholarship will be awarded each year to a Missouri Western student living in commuting distance of St. Joseph. The award will go to a history or education major that has completed 45 hours of study and has a minimum GPA of 2.5. The awardee must also have completed 200 hours of volunteer study in local history for the St. Joseph Historical Society. (Apply - OFA)

NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION (NAWC) SCHOLARSHIP: A \$100 per-year scholarship has been established by the St. Joseph Chapter No. 162 of the National Association of Women in Construction, to be available to a student majoring in a construction-related field, preferably a woman. This scholarship is available to any student who demonstrates financial need. The student must maintain standard academic progress. Selection will be made by the local chapter. (Apply - OFA)

NORTHWEST MISSOURI WILD TURKEY FEDERATION SCHOLARSHIP: Northwest Missouri Wild Turkey Federation offers a \$500 scholarship for a Missouri Western State College student majoring in a field related to the conservation of forest, fish or wildlife resources. (Apply - OFA)

PHI SIGMA KAPPA ALUMNI SCHOLARSHIP: This scholarship was established by the Phi Sigma Kappa Alumni Association to help a brother meet college expenses. This scholarship will be presented by the Phi Sigma Kappa Alumni Association to a member of the Phi Sigma Kappa Fraternity at Missouri Western State College who meets the requirements of support and need. The scholarship will be one-third of the monies available, will not exceed \$100 per year, and will be awarded in the fall semester. (Apply - Phi Sigma Kappa)

PHI SIGMA KAPPA AND A.W. SAVING MEMORIAL SCHOLARSHIP: This scholarship was established by the Phi Sigma Kappa Alumni Association in remembrance of A.W. Saving who contributed to the creation of the Phi Sigma Kappa fraternity at Missouri Western State College. This scholarship will be presented by the Phi Sigma Kappa Alumni Association to a member of the Phi Sigma Kappa fraternity at Missouri Western State College who meets the requirements of support and need. This scholarship will be two-thirds of the monies available, will not exceed \$300 per year, and will be awarded in the fall semester. (Apply - Phi Sigma Kappa)

SOUTHSIDE SERTOMA OF ST. JOSEPH SCHOLARSHIP: Southside Sertoma presents a \$500 scholarship each year to a deserving student selected by the Scholarship Committee. In keeping with Sertoma's work in areas of speech and hearing correction, the scholarship will be available to a student working in special education. (Apply - OFA)

ST. JOSEPH CONSTRUCTION ASSOCIATION SCHOLARSHIP: A scholarship fund has been established by the St. Joseph Construction Association. Scholarships amounting to \$1000 a year will be awarded to qualified students at Missouri Western State College. The scholarships will be \$250 each for two students per semester for a total of \$500 annually per qualified recipient. Qualifications are as follows: must be a sophomore, junior or senior at MWSC; must carry a minimum grade point average of 2.75 overall; must declare their major to be engineering technology, construction engineering technology, the engineering transfer program or the architecture transfer program; they may declare their major to be business or economics with a construction management minor; must be enrolled in a minimum of 9 hours of classes which are construction related courses and 12 hours minimum overall (in the case of a construction management minor, the student must be enrolled in a minimum of 6 hours of construction related classes and 12 hours minimum overall). The term "construction related courses" means courses from the curriculum for their major or minor which the Department of Engineering Technology offers. Must not have received this scholarship for more than five previous semesters. (Apply - OFA)

Graduate Fellowships

CHARLES F. SCHAFF GRADUATE SCHOLARSHIP: This scholarship has been established for senior students who are completing their undergraduate programs and intend to pursue graduate degrees other than accounting, business or law. They must have completed a minimum of 90 hours, have a minimum GPA of 3.5 and be accepted by graduate school. (FAFSA not required) (Apply - OFA)

GRADUATE MEDICAL EDUCATIONAL GRANT: The Graduate Medical Educational Grant provides \$2,500 to \$5,000 in matching dollars from both entities for any MWSC student who has graduated and has been accepted to continue his or her education in an accredited school of medicine or graduate nursing program. Requests for this grant will be submitted by the individual student to the executive vice president of MWSC.

JOHN S. LOGAN GRADUATE FELLOWSHIPS: The John S. Logan Graduate Fellowship Program provides scholarships to senior students who are completing their undergraduate program and intend to pursue graduate degrees in accounting, business, economics or law. They must have completed a minimum of 90 hours, have a minimum GPA of 3.5 and be accepted by a graduate school. (FAFSA not required) (Apply - OFA and department chairperson)

ZEREDATHA MASONIC LODGE AWARD: This scholarship will be awarded to a MWSC graduating senior who has been accepted into a medical school and who displays the highest potential for success in the medical profession. (Apply - OFA)

Minority Scholarships

EDITH C. BROWN MINORITY SCHOLARSHIP PROGRAM: Four minority scholarships, two to be given to high school students in the Kansas City area and two in the St. Joseph area, have been established at MWSC. The student must rank in the top 20% of his/her graduating class. Scholarships will cover one-half (1/2) in-state tuition, fees and room for one year. (Apply - Office of Admissions)

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 FOR ADDITIONAL
 FINANCIAL AID &
 SCHOLARSHIP INFORMATION,
 PLEASE CONTACT THE
 MWSC OFFICE OF FINANCIAL AID
 SS/C 112, (816) 271-4361

Student Affairs

Counseling

Counselors are available to assist the student in becoming oriented to college, making a career choice, and resolving personal difficulties. Areas of difficulty for which students frequently seek counseling include poor concentration, test anxiety, performance anxiety, lack of confidence, depression, time management, stress management and relationship problems. Visits to the Counseling Center are strictly confidential and information from counseling sessions will not be shared on campus or off campus without the consent of the student.

The Department of Counseling and Career Services hosts a series of seminars on topics such as Building Self Esteem, Assertive Communication, Dealing with Grief and Loss, Job Interviewing, Date Rape, and Thinking About Drinking. A list of offerings can be obtained from the reception desk in SS/C 101 at the beginning of each semester.

Peer Helping

Students who wish to talk with another student about problems they are having in adjusting to campus life, may visit with a peer counselor in the Peer Helping Office, SS/C 108. The phone number for the office is 271-4330. Peer Helpers who work in the office are students who have received extensive training in listening and helping skills and have volunteered their time to help other students.

Students with Disabilities

It will be to the advantage of students with disabilities creating special needs to contact the Counseling Center at least two months before enrollment.

Missouri Western has a designated contact person for disabled students in the Counseling Center who will explain campus services for the disabled to the student and assist the student with any school related problems that might be encountered. The number is 271-4280.

Testing

The Office of Counseling and Testing administers and provides interpretation of several standardized exams. Major testing programs offered through the college include:

- * American College Test (ACT)
- * General Educational Development (GED) test
- * Graduate Record Exam (GRE)
- * College Base Exam
- * College-Level Examination Program (CLEP)
- * Real Estate Exam (REE)
- * Insurance Institute Exam
- * Strong-Vocational Interest Inventory (SVII)
- * Myers Briggs Type Indicator
- * National Teachers Exam (NTE)

The Office of Counseling and Testing maintains a supply of current applications for several other standardized tests which are not administered at MWSC, such as the Medical College Application Service (MCAS), Law School Admissions Services (LSAS), Graduate Management Admissions Test (GMAT), and others.

Student Conduct

As a condition to remaining at MWSC, the college expects all students to conduct themselves 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 rights 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

There are two residence hall complexes - the "Suite Complex" and the "Apartment Complex".

The Suite Complex is contemporary in design. Each suite includes a large living room with two adjoining bedrooms and connecting bathroom on each side. Each suite also has its own outside entrance, patio and self-contained air conditioning and heating unit. The capacity for the Suite Complex is 653 students. The Apartment Complex was opened in August of 1991. Each apartment contains a combination living room/kitchenette and two bedrooms with two persons per bedroom. The kitchenette is equipped with a sink, microwave and refrigerator. The capacity for the Apartment Complex is 200 students.

Four house residents and sixteen resident assistants work with students to develop interpersonal and social skills that are important in today's society. The staff invites residents to take an active part in the many activities designed to aid in the transition into college—dances, ice cream socials, pool parties, tennis tournaments, and educational seminars, just to name a few.

A list of off-campus housing is also maintained by the Assistant Dean of Students office.

Nelle Blum Student Union

The center of student activities, this building features the bookstore, cafeteria, Griffon Place snack bar, student work center and recreation center. Among the offices located here are the Dean of Student Affairs, Coordinator of Student Activities, Traffic & Security, Student Health Service and the Student Government Association.

Traffic and Security

The Security Department is located in Room 204 Student Union Building. Their mission is to control traffic and to protect personnel and property.

The Security Office is open from 7:45 a.m. until 10:00 p.m. Monday through Thursday and from 7:45 a.m. until 4:30 p.m. on Fridays. Students may register their vehicles and obtain information about parking during these hours.

The Missouri Western campus is patrolled by security officers 24 hours a day, all year long. These officers assist students by unlocking cars, loaning jumper cables and by responding to calls concerning thefts, vandalism, uninvited guests, fires, injury or any emergency situation.

Students may receive assistance by calling 271-4438 or 271-4439.

Bookstore

The college bookstore is located on the first floor of the Student Union. Normal hours are from 8:00 a.m. - 5:00 p.m. Monday through Thursday and 8:00 a.m. - 4:30 p.m. Friday. Hours are extended at the beginning of each semester for your shopping convenience. Mastercard, Visa and American Express cards are accepted.

All required textbooks are available at the bookstore. Both new and used textbooks are available for purchase. The bookstore also stocks test guides, Cliffs Notes, best-selling paperbacks, and a wide variety of other books.

A wide selection of other items is also available at the bookstore including school supplies, art supplies, engineering supplies, clothing, insignia novelty items, greeting cards, candy, and many other sundry items.

In addition, the bookstore offers refrigerator rentals.

Student Health Services

The Student Health Clinic is located in the Student Union Building, Suite 203. Clinic hours are posted on the office window. Phone 271-4495.

All MWSC students are eligible to receive on-campus health services. The cost of these services is low compared to that of regular off-campus health care.

In addition to providing treatment and support for students during illness, a major goal of health services is to provide health education and preventive services on such topics as immunization, nutrition, prevention of disease, safer sex, and self-care guidelines for common problems such as colds, "flu", minor accidents, etc.

A physician is available for emergencies on a part-time basis with the scheduled hours being announced in the Fall. A women's health clinic is offered, by appointment, every Wednesday. "Walk-ins" are welcome for nursing consultations during regular clinic hours, and referrals are made as necessary. Services include:

Laboratory screening tests for:

Anemia
Diabetes
Mononucleosis
Pregnancy
Sexually transmitted diseases
Strep throat
Tuberculosis
Urinary tract infection

Allergy injections
Blood pressure checks
Contraceptives
Dental Screening
First aid for injuries
Medications
Pelvic & breast exams
Physical exams
Orthopedic supplies & equipment
Suture removal
Weight control counseling

Immunizations:

Influenza
Measles-mumps-rubella (MMR)
Tetanus/diphtheria (TD)

The clinic offers a variety of educational pamphlets and maintains STRICT CONFIDENTIALITY of all health records.

Activities

The student activities program is an important part of the educational philosophy at Missouri Western State College. While the information gained in the academic classroom is important in shaping the future of the student, the experience of participating as a citizen in an academic community is equally important.

THE STUDENT GOVERNMENT ASSOCIATION

All students enrolled at Missouri Western State College make up the Student Association. The representative Body of the Student Association is the Student Government Association (SGA). The duties of the SGA are to represent the Student Association in all matters, to organize and supervise student activities, and to coordinate the student and student organizations through a system of self-government.

The SGA consists of the Executive Branch, the Legislative Branch, the Campus Activities Board, and the Dormitory Association Branch.

THE EXECUTIVE BRANCH: The executive power of the Student Association is vested in the Executive Council which is made up of six members. They are: the SGA President, the SGA Vice-President, the Secretary, the Projects/Campus Organizations Director, the Campus Activities Board Chairperson, and the Dormitory Association President.

THE LEGISLATIVE BRANCH: The legislative power of the Student Association is vested in the Senate which is made up of twenty elected Senators and presided over by the SGA Vice-President. The election of Senators is held annually in April for the following school year.

THE CAMPUS ACTIVITIES BOARD: The Campus Activities Board (CAB) plans and sponsors all student events on campus, such as movies, dances, concerts, and other cultural events. The CAB is made up of twenty-four members chosen by a selection committee. Twelve members are appointed each December and the remaining twelve are appointed in May. The CAB is presided over by the CAB Chairperson who is appointed by SGA President.

THE DORMITORY ASSOCIATION BRANCH: The Dormitory Association is made up of all Missouri Western students who reside in the dormitories. The representative body of the Dormitory Association is the Dormitory Council, which is responsible for the welfare of all students in the Dormitory Association and for providing entertainment and activities for its members. The Dormitory Council is made up of ten elected members and presided over by the Dormitory Association President.

Organizations

The experiences and interaction encountered in club activities are a very important supplement to the academic experience a student receives.

Students can participate in organizations or clubs in student government, religious groups, intramurals, fraternities, sororities, or other activities such as band, chorus, ensembles, plays, debates, etc.

A list of organizations currently active on the campus appears below. 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 Student Affairs will assist in answering questions in this area.

Department Clubs

Agriculture Club
Alchemist Club
Association of Young Agronomists
Beta, Beta, Beta
Biology Club
Council for the Exceptional Child
Delta Phi Upsilon
Electronics Engineering Tech. Society
Etc., Etc.
Forensics Society
Griffon Guard Battalion
Institute of Management Accountants
Journalism Club
Kappa Delta Pi
Kappa Mu Epsilon
Legal Assistants Association
L'Alliance Francais de MWSC

Leisure Management/Recreation Club
Missouri National Education Association
Music Educators National Conference
MWSC Mathematics Club
Organization of Student Social Workers
Phi Beta Lambda
Phi Mu Alpha Sinfonia
Physical Education Majors Club
Psi Chi
Psychology Club
Sigma Alpha Iota
Sigma Tau Delta
Student Missouri State Teachers Assoc.
Students Nursing Association

Social Clubs

Alpha Chi Delta Sorority
Alpha Delta Nu Fraternity
Alpha Phi Alpha Fraternity
Inter-Greek Council
Ladies of Vision
Phi Sigma Kappa
Sigma Delta Xi
Zeta Delta Tau

Religious Clubs

Baptist Student Union
Chi Alpha
Fellowship of Christian Athletes
Newman Club
Wesley Foundation

Miscellaneous

Alpha Chi (Honor)
Alpha Psi Omega
Associated General Contractors of America
Circle K Club
Community Mediators Service
Human Resource Mgmt. Ass'n.
MWSC Computer Science Club
MWSC Dance Co.
MWSC Soccer Club
MWSC Student Grotto
Organization of Student Marketers
Peers Reaching Others
Pre-Professional Club
Professional Association of Communicators
Student Honor Organization
Students in Free Enterprise
The Ebony Collegians
Traveling Insanity

Intramurals

A full intramural sports recreation program is offered to college personnel. The program of activities includes individual, dual, team sports and special events for men, women and coed. The intramural program encourages the development of mental, physical, emotional, and social health. In general, Missouri Western State provides the opportunity for every individual, regardless of ability, to realize the fun of participation in a favorite sport or activity at various levels of competition.

Dramatics

Several productions are sponsored each academic year by the Department of Communication Studies, Theatre and Humanities or Alpha Psi Omega, the theatre honorary society. It is not necessary for a student to be majoring in a theatre degree program in order to participate in college productions. Each year, student with a wide variety of majors enjoy working as actors and backstage personnel in shows.

Forensics

The Department of Communication Studies, Theatre and Humanities sponsors a forensics team which competes at the regional and national collegiate levels. The team includes both debaters and those skilled in a variety of individual events.

Music

Musical groups include the Marching Band, Symphonic Band, Wind Ensemble, Jazz Ensembles, Percussion Ensemble, various chamber instrumental ensembles, Concert Chorale, Orchestra, Renaissance Singers, Chamber Singers, and Community Chorus. Student participation is organized through the Department of Music. All students may audition for membership in these groups, and the Department of Music invites their participation.

Griffon Publications

GRIFFON NEWS

The Griffon News is the award-winning, official student publication of Missouri Western State college, one of five colleges in the country to win the 1986-87 Gold Crown award from Columbia Scholastic Press Association. It is published weekly during fall and spring semesters by students in the journalism area of the Department of English, Journalism and Foreign Languages.

The newspaper serves two important functions at Missouri Western. First, it is an important outlet for news, entertainment, and information for the college community. Second, it offers students ample opportunities to practice journalism in a realistic, professional setting.

The newsroom includes an Apple McIntosh network that allows writers to keyboard and editors to edit all copy. Stories, headlines, and advertising are then electronically arranged on the computer screen and printed out for final paste-up. Also housed in the newsroom are layout tables, a professional light table and related production equipment.

The darkroom includes six Beseler 23C-II, each located in a separate cubicle. Two large stainless steel sinks offer ample space for processing prints while film is processed in a third sink. Two light-tight, film-loading booths are located nearby, and a lighted outer room includes film-and-paper-drying equipment as well as chemical storage.

In addition, the Griffon News makes available to photographers two fully equipped camera bags with Canon AE-1 program 35s, power winder, wide-angle and macro-zoom telephoto lenses and related equipment. Film, photographic paper, and chemicals are provided free to staff photographers.

Although the college provides some funding for the newspaper, approximately 60 percent of the nearly \$40,000 annual budget comes from advertising revenue. Students sell the advertising, design it, typeset the copy, and bill the buyers.

Students working for the Griffon News can earn two hours of college credit for each semester enrolled. Scholarships are available to help defray tuition costs. Students not interested in earning college credit are invited to join the associate staff as writers, photographers, or business staffers. Also, editors receive weekly stipends of varying amounts, ranging from \$25 to \$60. Finally, a limited number of work-study positions are available each semester for those who qualify.

Editors then review and revise copy as necessary before it is typeset on campus and pasted up the following Tuesday. Finally, the paper is distributed on Thursday.

GRIFFON YEARBOOK

The Griffon Yearbook is a 250-page, award-winning publication. The 1990 Griffon was awarded an All-American with all five marks of distinction from the Associated Collegiate Press and received the Medalist rating from Columbia Scholastic Press Association. The 1989 Griffon won the ACP Pacemaker and the Silver Crown Award from CSPA. The yearbook covers all aspects of college life through both color and black and white photography, in-depth interviews, feature stories, and enlightening articles.

Working for the Griffon is a learning experience. Students apply what they have learned in their classrooms to the actual production of a publication. Students who want to become journalists learn first hand what journalism is all about.

The Griffon staff is led by a student editor who has had several years' experience in yearbook production. Other editors are: a copy editor, a design editor, a photography editor, a production manager, and a business manager. Editors and staff work together to produce a high-quality, professional publication. The staff is assisted by a faculty adviser.

All Griffon staff members receive two hours of academic credit. In addition, editors and assistant editors receive stipends for their contribution to the yearbook. Although anyone may apply for these editorial positions, most editors usually have at least one semester of journalism experience on a college publication.

Incoming freshmen with outstanding skills in the areas of photography, copy editing or graphic design and with experience on a high school publication may apply for fee waiver scholarships by contacting the Griffon adviser. Students from all levels and majors are eligible to join the Griffon staff. The Griffon is located in SS/C 202.

Athletics

The college's intercollegiate athletic program consists of four sports for men: football, basketball, baseball and golf; and four sports for women: volleyball, basketball, softball and tennis. A varied amount of scholarship aid is available for participants in each sport. Missouri Western's athletic program is affiliated with Division II of the National Collegiate Athletic Association (NCAA). Griffon teams compete in the Missouri Intercollegiate Athletic Association (MIAA), which is comprised of state-supported institutions in Missouri and Kansas.

Missouri Western's teams have been well-respected at the conference, regional and national levels. A number of teams have advanced to national tournaments in recent years. The Griffon basketball team has advanced to the NCAA Division II national tournament for the past three seasons. Western's student-athletes have been well represented on All-America and Academic All-America teams.

The athletic program is supported by staff and students alike. As well as providing learning experiences for participants, the program offers a number of exciting activities for spectators. A variety of special events has helped link the campus with the St. Joseph community. Further information may be obtained by contacting the athletic office at 816/271-4481.

Career Services

Career planning and placement services are provided to all students and alumni through the cooperative efforts of the Career Services Center, academic departments, Job Location Office and Counseling Center. Missouri Western graduates hold prominent positions in major corporations, local business, government service, health care and public education.

The Career Services Center assists students in securing professional employment upon graduation. The Center offers on-campus interviews with employers, employer fairs, career days, referral of resumes to employers, listings of job opportunities, directories of employers, and credential file services.

Free literature is available on all aspects of the job-hunting process. The Career Services Center staff conducts helpful workshops in writing resumes, interviewing skills and job search strategies. A career library contains information about occupations, employment opportunities and employers.

Career counseling is provided by the staff of the Counseling and Career Services Center. Students receive assistance in choosing a major and exploring career options. Students have access to several career interest inventories and a computerized career guidance system.

Part-time employment during college and local summer job opportunities are available to all students through the Job Location Office. Many students are employed in part time positions directly related to their major. A representative from the Missouri Division of Employment Services is available on campus every afternoon. Students can access full-and part-time job openings through a local, statewide and national computerized job bank. Information and applications for state merit system positions are also available.

Internships and other experiential educational experiences are coordinated through the academic departments. Practical work experiences are an integral part of several majors.

Non-Traditional Student Center

The Non-Traditional Student Center office, located in 106-B Student Services/Classroom Building, provides support and assistance for the non-traditional male and female students at Missouri Western. Programming on issues relevant to adult students is planned each semester through the Counseling Center.

"Considering College: A Day-Long Seminar for Adult Men and Women," designed especially for adults considering coming to college for the first time or returning to college after several years absence, is scheduled approximately one week before registration each semester. Participants have an opportunity to talk with other men and women who are attending Missouri Western, and can meet and talk with college personnel who will answer questions, discuss entrance procedures,

and provide methods to ease the transition. This program is offered free of charge.
To obtain additional information, contact the Non-Traditional Student Center at 271-4280.

Alumni Association

The MWSC Alumni Association, an independent, not-for-profit corporation, was established in 1970 to advance the educational interest of the college. The Association provides opportunities for alumni to stay in touch with Missouri Western.

Programs include sponsorship of the traditional Homecoming reception for alumni and friends and the Commencement Breakfast for graduating seniors. Many of the flowers and shrubs adorning the campus were planted through the beautification program of the Alumni Association.

Members of the Association receive *Griffalum*, a newsletter of college/alumni activities, events, and news. The Alumni Association also conducts the Annual Fund drive which provides scholarships and academic enhancement grants.

For a more complete description of the Alumni Association, please turn to the College section at the beginning of the catalog.

Missouri Western Ambassadors

The Missouri Western State College Ambassadors are composed of community members who are interested in the college and what it offers to the community at large. They are an important bridge in providing information about the college and its programs.

Through their activities, the Ambassadors provide information about and access to the campus. In particular, they strive to make St. Joseph and surrounding communities aware of the educational, cultural and financial benefits of the institution. The Ambassadors either initiate programs of their own or cooperate with others in expanding existing programs which are helpful to the growth of the college and the community. Presently, the major focus of the Ambassadors is support of a scholarship that serves non-traditional students.

You are invited to join the Ambassadors and help both the college and the community. If you have questions regarding the Ambassadors, please contact the Office of College Relations.

Academic Affairs, Policies and Regulations

Academic Advisement

Academic advisement of students by departmental faculty members is an integral part of academics at Missouri Western. All degree-seeking students are assigned a faculty advisor who helps provide information regarding degree requirements, semester class selection, and career direction. Semester advisement is mandatory and an advisor's signature is required prior to actual course enrollment.

Entering freshmen are assigned faculty advisors in their major field of study. As part of the procedure for the academic advisement/preregistration system at Missouri Western, students must meet with their respective advisors at designated times each semester to work out their schedules and Permits to Enroll for the next semester of study. However, students are encouraged to meet with their advisors on a regular basis to develop the type of meaningful faculty-student relationship that we at Missouri Western prize as one of the hallmarks of our institution.

All four-year degree seeking students are strongly encouraged to declare their majors before completing 60 credit hours of coursework. Owing to the nature of the one-year certificate and two-year associate degrees, students in these programs are advised to consult with the chairpersons of the appropriate departments as early as possible.

Declaring a Major

After admission and enrollment, a student officially declares a major by procuring the Major-Minor Declaration Form from the academic department in which the major is housed. The chairperson will assign a department advisor and assist the student in completing the Major-Minor Declaration Form. The completed document, with appropriate signatures, must be received in the Office of the Registrar in order for the process to be complete. The declaration of major should be made as early as possible in a student's college career (and certainly prior to completion of 60 semester hours of credit) to plan the best program of study and to avoid misunderstandings concerning curriculum requirements.

The college catalog in effect at the time of completion of the Major-Minor Declaration Form will be used to determine major course requirements. The degree program remains effective for no more than six years following its approval date. Students are responsible for the requirements of their educational programs and should work closely with their faculty advisors to see that those requirements are met.

In the process of earning a degree, students must complete requirements for that degree and sometimes, as in the case of teacher education programs, must also meet state certification requirements. If certification or statutory requirements change and additional requirements become effective during the time a student is enrolled in a program, the new requirements take precedence over previously existing degree or certification standards.

Students who are not sure of their degree plans should consult with the Counseling Center for career planning assistance and with those departments in which they are likely to major.

Early Completion of Math and English Composition Classes

Effective Fall 1993, all students must complete any developmental coursework (ENG 100, MAT 090, and/or MAT 095 within their first forty (40) credit hours earned at MWSC.

Effective Fall 1993, all new students must successfully complete ENG 108 and MAT 112 (or any higher level math course of three or more credits excluding MAT 132), as required in their degree programs, within their first sixty (60) credit hours earned at MWSC.

Students who do not successfully complete ENG 108 and MAT 112 (or its general studies math equivalent as listed in the college catalog) as required in their degree programs, within their first sixty credits earned at MWSC may *only* enroll in those class/classes until ENG 108 and MAT 112 (or its general studies equivalent) are successfully completed. Students will be restricted to only the English and/or math class(es) and will not be allowed to enroll in additional college coursework until ENG 108 and MAT 112/equivalent are successfully completed.

Class Attendance

Regular class attendance is considered an essential part of the educational experience and a requirement for an adequate evaluation of academic progress. Each instructor will determine and make known to the class the requirement for attendance.

Student Classification System

Students are classified according to the number of semester credit hours completed satisfactorily.

0 - 29 hours.....	Freshman
30 - 59 hours.....	Sophomore
60 - 89 hours.....	Junior
90 — hours.....	Senior

Course Load

Effective Fall 1992, new first time college students with enhanced ACT composite scores below 17 can only enroll in 14 credits their first semester.

The maximum number of credits a student may take is 18 credits per semester or 9 credits in a summer term. This includes day and evening enrollment combined. Upon approval of the Division Dean, a student who has a 3.0 cumulative GPA or a 3.0 GPA for the previous semester or term may take additional credit for the following semester or term.

Students who find it necessary to work in order to attend college should adjust their course load to their work load. The following is a guideline which students may use to determine their course load:

Hours worked per week	Course load
15-20 hours	12 credits
20-30 hours	9 credits
30-35 hours	6 credits
35-40 hours	3 credits

Course Numbering System

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

000-099 - courses that do not apply toward a degree
100-199 - freshman-level courses
200-299 - sophomore-level courses
300-399 - junior-level courses
400-499 - senior-level courses

Normally, courses numbered 100-299 are considered lower-division courses, and those numbered 300-499 are considered upper-division 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 196-199, 296-299, 396-399, and 496-499 are reserved for assignment to special topics courses. These offerings require approval by the Vice President for Academic Affairs.

Change of Schedule

All class or schedule changes must be made by petition. In order to drop or add a course, the student must secure a Change of Study form and present the petition to the Office of the Registrar. Changes may be made during the following time periods:

Regular Semester: Add - During first three days only.

Drop - First through Friday of the tenth week.

Courses dropped through the first week will not appear on the transcript as attempted classes. Courses dropped after the first week through the tenth week will be assigned a grade of W. No course drop(s) or complete withdrawal from class(es) may occur after the tenth week of the semester. No course may be dropped once officially completed. Please refer to the current class schedule or the Registrar's Office for specific dates.

Summer Session (eight weeks): Add — First two days only.

Drop — First through Thursday of the fifth week.

Courses dropped through the first three days will not appear on the transcript as attempted classes. Courses dropped from the fourth day through the fifth week will be assigned a grade of W. No course drop(s) or complete withdrawals from class(es) may occur after the fifth week of the eight-week summer session. No course may be dropped once officially completed.

Summer Session (four weeks): Add — Courses for first and second four week sessions may be added during the first two days of the regular eight week summer term.

Drop — First through Thursday of the third week of the individual four week session.

Courses dropped through the first three days of the four week session will not appear on the transcript as attempted classes. Courses dropped from the fourth day through the twelfth day will be assigned a grade of W. No course drop(s) or complete withdrawals from class(es) may occur after the twelfth day of the four-week summer session. No course may be dropped once officially completed. Please refer to the current class schedule or the Registrar's Office for specific dates.

Intersession (12 days): Add — First day of class

Drop — First through sixth day of class.

No course drop or complete withdrawal may occur after the sixth day of Intersession.

Dropping ENG 100 or MAT 090/095

Effective Fall 1992, students dropping ENG 100, MAT 090, or MAT 095 must get the signature of their advisor or the English/math instructor on the "drop slip."

Grading System

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

<i>Level of Performance and Letter Grade</i>	<i>Grade Points Earned</i>
Superior A	4 per credit
Good, above average B	3 per credit
Average C	2 per credit
Minimum passing, (below average) D	1 per credit
Failing F	0 per credit
Incomplete Inc	
Withdraw (no grade assessment) W	
Audit Aud	
Credit Cr	
No credit U	

Courses evaluated by pass-fail criteria receive the number of credits for that course with a grade of Cr. A failure will result in a grade of F and no credit. Credits earned in courses that are stipulated in the catalog as being graded on a pass-fail basis will not be used in computing grade-point-averages for honors. Under the A/Cr/U option, a grade of A is the only grade which will be used in GPA and honors calculations.

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

A/Credit/Unsatisfactory Grading System

(Formerly Pass/Fail; some courses are still graded on pass/fail — see individual course descriptions.)

The major objective of the A/Cr/U option is to encourage students to explore challenging elective courses they might not otherwise select. The following policy applies to courses which may be taken under the regular A-F grading system. The following guidelines apply for the A/Cr/U option:

1. Students must have satisfactorily completed at least twelve (12) credit hours to be eligible.
2. Students must have a major-minor form on file with their chosen department.
3. Students on scholastic probation are not eligible.
4. Coursework may not be taken in the major and minor fields. This includes cognate courses stipulated by the major and minor degree programs.
5. Only one course per semester or summer session may be taken.
6. All level courses may be taken.
7. A grade of A received in a A/Cr/U course will be recorded as an A. A grade of B or C will be recorded as a Cr. A grade of D or F will be recorded as a U and will not receive course credit or be included in any GPA calculation.
8. The number of credit hours completed under this option will number no more than twelve (12) for any degree. Exception: Hours attempted in a course taken under the A/Cr/U option and graded as an A will not be deducted from the twelve (12) hours allowed to a student under this grading system.
9. Students are expected to meet all course prerequisites.
10. Students must designate the A/Cr/U option at the Registrar's Office during the fourth week after the first day of classes (second week of summer session.)
11. Instructors will not be informed that students are enrolled under the A/Cr/U option. Regular procedures will be followed in the submission of final grades by the instructor to the Registrar. Grades will be assigned A, Cr, or U in the Registrar's Office.
12. A course completed under the letter grade system in which D or F was earned may not be repeated on an A/Cr/U.

Students should be aware that some schools, scholarship committees and honorary societies do not find work taken on a non-graded basis acceptable. Furthermore many employers do not view non-graded coursework in a favorable manner. All students should be very cautious in using the A/Cr/U option.

Honors

The 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 12 or more credits with a grade-point-average of 4.0, exclusive of audits or credit earned in courses that are stipulated in the catalog as being graded on a pass-fail basis. 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 12 or more credits with a grade-point-average of 3.5, or higher exclusive of audits or credit earned in courses that are graded on a pass-fail basis.

Honors Convocation

The Honors Convocation Program at Missouri Western State College is designed to recognize outstanding academic achievement of students in both the Liberal Arts & Sciences division and the Professional Studies division. In the spring of the academic year, both divisions and their respective departments honor student scholars through a range of awards that include: the Scholastic Certificate award, the Scholastic Key award, and special academic awards made to selected graduating seniors from academic departments.

The Scholarship Key award requires: for freshmen with declared major - a GPA of 4.0; for sophomores - a GPA minimum of 3.8; and for juniors and seniors - a GPA minimum of 3.75.

The Scholarship Certificate award requires a minimum GPA of 3.5 on behalf of the student with a declared major in either of the two academic divisions.

Special academic awards are reserved for outstanding graduating seniors in accordance with the academic and related criteria established by academic departments within both divisions making the awards.

Students who qualify for the academic honors will be contacted by their academic deans regarding both the nature of the award as well as the date and time of the spring Honors Convocation program.

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 extension of time may be made to the department chairperson and Registrar.

Repeating Courses

Students are permitted to repeat any course. (The A/Cr/U option cannot be used to repeat a course in which a prior letter grade of D or F was earned.) When a course is repeated, only the last grade is used in the calculation of the GPA. Topics and related format courses which change in content on a semester to semester basis do not apply in this regard.

Beginning in Fall 1993, students may enroll in a class at MWSC no more than two times. Everyone starts with a "clean slate" in Fall 1993; no previous attempts are counted on classes taken prior to Fall 1993. It is recognized that certain classes can be repeated, according to the college

catalog; those special classes would be exempt from this rule. Note that this policy indicates an ENROLLMENT limit. If a student receives a grade or W in a class, that counts as an enrollment; only one additional enrollment at MWSC in that class would be allowed. (Dropping/adding during late registration, when Ws are not yet given, does not count as an enrollment.)

Class Auditors

A class auditor is a student registered for a course only for informational instruction, not to earn credit. A student may audit a course for a number of reasons, ranging from skills improvement through a review before registering for credit. Regardless of the purpose, it is important that students get a meaningful experience from instruction and make satisfactory progress toward their purpose. It is the role of the instructor to aid students in this determination. Therefore, audit students should expect to work closely with their instructor.

Students enrolling in a class for credit may choose to change that registration to audit before the end of the sixth week of the semester (third week of 8-week summer session; second week of 4-week summer session.) A change from audit to credit must be completed by the end of the first week of classes. Credit by examination is not available for any student who has audited the course.

Scholastic Probation and Suspension

Students are placed on scholastic probation if the cumulative grade-point average (CGPA) on cumulative hours attempted drops below 2.0. Students on probation may need college approval for their semester course schedule.

Students are placed on scholastic suspension if their GPA drops below the suspension GPA in the Table of Academic Standards which corresponds to the cumulative credits attempted subject to the provisions which follow. To be placed on scholastic suspension a student:

- must have been on scholastic probation or suspension during the previous semester at MWSC; and
- must have a term GPA lower than 2.0 (C).

Table of Academic Standards

Cumulative hours attempted	Probation if GPA is less than	Suspension if GPA is less than
0-18	2.0	NA
19-30	2.0	1.500
31-45	2.0	1.600
46-60	2.0	1.700
61-75	2.0	1.800
76-90	2.0	1.900
91+	2.0	2.000

Readmission

Students suspended from the college may petition the Academic Regulations and Standards Committee if they feel their case warrants special consideration. Appeals must be 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, the student will be on scholastic probation.

The Academic Regulations and Standards Committee will also hear appeals from students whose suspensions include grades that are more than ten years old. In those instances, students should recalculate their GPA using only grades that are from credits that are ten years old or less. If this recalculated GPA would not warrant suspension, a letter of appeal for reinstatement should be sent to the Academic Regulations and Standards Committee citing this information.

Students placed on their first or second academic suspension since Fall 1990 will have two options: (1) they may choose to "sit out" one semester for their first suspension or two semesters for their second suspension or (2) They may appeal for readmittance (see above) to the Academic Regulations and Standards Committee.

A third suspension after Fall 1990 will automatically bar a student from attending Missouri Western State College for ten years. If an appeal is accepted, the initiating suspension is still counted as one suspension.

Students applying for readmission after being suspended must file a new application form with the Office of Admissions. Readmission after any type of suspension will be granted on a probationary basis.

Withdrawal from College

A student will be given a failing grade in each subject if a formal notification of withdrawal has not been made. A student must notify the Registrar in writing. The effective date of withdrawal will be the date on which the written notification is received by the Office of the Registrar Records of Academic Work and Transcripts

Records of Academic Work and Transcripts

Unofficial transcripts will be stamped "Unofficial, for Missouri Western State College 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 transcript requests require the student's signature. These transcripts may be picked up in the Office of the Registrar or they will be mailed upon written request. A fee of \$2 per copy will be charged. Official transcripts will not be issued to or for students who are indebted to the college until such indebtedness has been paid in full or to students who are on disciplinary suspension.

False/Misleading Information

An student who misrepresents, falsifies, or withholds required information will be referred to the Admissions and Graduation Committee for review and appropriate action. Such action may result in dismissal from MWSC.

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 3 credits meets for three periods weekly for one semester. The number of credits is shown in parentheses after the course title.

Description of Course

All courses offered at the college are listed by divisions and departments. Before the opening of each term, a class schedule is published which 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 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.

Semester Designation

The small Roman numerals following the title of the course and the credit (shown in parentheses) indicate the semesters in which the course is normally offered, however course availability is subject to staffing changes and student enrollment.

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

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. This degree is available with majors in accounting, agribusiness, economics, finance, management, and marketing.

The **Bachelor of Science in Education** degree is designed to prepare individuals for careers in teaching or education. Upon completion of the degree requirements with a minimum cumulative GPA of 2.5, a minimum grade of C in student teaching, and passage of the National Teachers Examination, the candidate will receive a State of Missouri Teaching Certificate and be prepared for employment or for graduate study in education or related fields. Specific degree requirements include completion of the professional education program and a major in elementary education or in secondary education in the areas of art, business, English, music, and speech and theatre. However, please note that the business education degree at MWSC is being phased out; no additional majors are being accepted, effective March 1992.

For teacher education in the areas of biology, chemistry, mathematics, physical education, and social science, please refer to those specific program descriptions for requirements and options.

The **Bachelor of Science in Nursing** degree is designed to prepare individuals to practice professional nursing. The basic generic graduate is eligible to apply to write the National Council Licensure Examination to qualify for licensure as a registered nurse (RN). A special tract for the student who is already a registered nurse provides the additional courses necessary for professional practice. Specific degree requirements include the completion of the nursing major and the general education requirements. Acceptance by the Department of Nursing is a prerequisite for admission into the degree program.

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 credits 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 the 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.

Early Completion of Math and English Composition Classes

Effective Fall 1993, all students must complete any developmental coursework (ENG 100, MAT 090, and/or MAT 095 within their first forty (40) credit hours earned at MWSC.

Effective Fall 1993, all new students must successfully complete ENG 108 and MAT 112 (or any higher level math course of three or more credits excluding MAT 132), as required in their degree programs, within their first sixty (60) credit hours earned at MWSC.

Students who do not successfully complete ENG 108 and MAT 112 (or its general studies math equivalent as listed in the college catalog) as required in their degree programs, within their first sixty credits earned at MWSC may *only* enroll in those class/classes until ENG 108 and MAT 112 (or its general studies equivalent) are successfully completed. Students will be restricted to only the English and/or math class(es) and will not be allowed to enroll in additional college coursework until ENG 108 and MAT 112/equivalent are successfully completed.

Four-Year General Studies Program

General studies at Missouri Western State College constitute a common core of curriculum offerings necessary to produce an individual who demonstrates the skills, knowledge, and characteristics of an educated person. The required general studies curriculum assures that all baccalaureate-degree-seeking students will be provided the opportunity to acquire knowledge and skills to:

- Think critically and reason analytically;
- Write and speak clearly and effectively;
- Understand common phenomena in the physical, natural, and social environments and the methods by which they are studied;
- Gain a greater awareness of the present through an understanding of other cultures and times.
- Understand and appreciate moral values and ethical choices;
- Understand and enjoy aesthetic experiences and share in related creative activities;
- Understand and appreciate the means of gaining and maintaining mental and physical health;
- Understand and appreciate technological concepts and their influence on society.

The courses meeting the first two objectives concentrate on the development of basic learning skills such as reading, speaking, writing, and critical thinking. All other courses in the general studies curriculum must, where possible, reinforce these basic learning skills.

A student may attempt credit by examination in most of the general studies courses.

Credits

Category One — Basic Skills

12

1. MAT 112 (or any higher level mathematics course of three or more credits, excluding MAT 132)
2. ENG 104 and 108 or 112 (6 credits)
3. Select one course from the following (3 credits):
COM 104 or COM 105

Category Two — Natural Sciences

8-10

Select a minimum of 8 credits from two of the following groups:

1. BIO 101 (BIO 111 may be substituted)
2. CHE 101 or CHE 104 or CHE 111
3. ESC 111
4. PHY 101 or PHY 110 or PHY 210
5. PHY 104

Category Three — Social Sciences

9

Select 9 hours with at least one course from each of the two following groups:

1. PSY 101, SOC 110, SOC 120, GEO 100, ECO 101, or ECO 260
2. HIS 140 or HIS 150 or PSC 101

Category Four — Humanities

9-10

Select one course each from three of the following groups:

1. HIS 100, HIS 110, HUM 203, HUM 205
2. ENG 210, HUM 210, HUM 230, HUM 250
3. ART 100, MUS 101, THR 113
4. FRE 102, GER 102, SPA 102

Category Five — Physical Health

4

1. PED 101(3 credits)
2. One physical education activity or MIL 105

Total

42-45

Other Fees

(Subject to change without notice)

One-time matriculation fee (non refundable)	\$ 15
One-time orientation fee (non refundable)	\$ 15
Late application fee, non refundable (if complete application package not received two weeks prior to registration)	\$ 20
English 100 surcharge	\$ 30
Mathematics 090 or 095 surcharge (per course)	\$ 30
Applied music fee (per credit hour)	\$ 20
Audit fee	same as regular fee
College credit by examination (single-level, per test)	\$ 38
College credit by examination (multilevel, per sequence)	\$ 41
Student Housing-Suite Complex	\$ 1151
(room and board, per semester, double room, 20 meals)	
Student Housing-Apartment Complex	\$ 1303
(room and board, per semester, double room, 20 meals)	
Student Housing security deposit (subject to refund)	\$ 75
Graduation fee (all candidates)	\$ 25
Laboratory materials and/or breakage	cost
Physical education facility fee	\$ 4
Transcript fee	\$ 2
Late Registration fee	\$ 20
Motor Vehicle Registration fee (non refundable)	
One vehicle	\$ 20
Each additional vehicle	\$ 5

Refund Policy

Refunds are given only if the student drops out of college entirely; **no refund is given if the student drops individual classes or makes schedule changes that result in a reduced semester-hour class load.** The refund must be claimed during the term which the refund applies. The refund will be computed as of the date the Registrar receives the withdrawal form completely and correctly executed, not as of the date the student stops attending classes.

Refunds

Percent of fee

Fall and spring semester DAY students

Withdrawal during first week of classes	80%
Withdrawal during third week of classes	50%
Withdrawal after third week of classes	no refund

Fall and spring semester NIGHT students

Withdrawal before meeting of second class	80%
Withdrawal before meeting of fourth class	50%
Withdrawal after meeting of fourth class	no refund

Summer DAY students

Withdrawal during first week of classes	80%
Withdrawal during second week of classes	50%
Withdrawal after second week of classes	no refund

Summer NIGHT students

Withdrawal before meeting of second class	80%
Withdrawal before meeting of third class	50%
Withdrawal after meeting of third class	no refund

Students are eligible for refunds only if they have followed official withdrawal procedures in the Registrar's office. Failure to attend classes does not constitute a withdrawal.

If the student has paid college costs and there is a refund, these monies will be refunded directly to the student after all charges have been applied to the account. However, if the college costs have been paid partially or fully by financial aid (scholarships, grant, or loan) or another source (i.e., Vocational Rehabilitation), the refund will be returned to that financial aid or source up to 100 percent of the original aid amount. After restoring the financial aid or other source to its original amount, any excess of refund monies will be returned to the student.

Students who feel that individual circumstances warrant exceptions from this policy may appeal in writing to the Director of Accounting Services. This appeal must be made during the term for which the refund applies.

Veterans

Missouri Western State College is approved for training veterans and eligible persons. Students who have completed a minimum of one year of active military service 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 DD214 or NGB55 form to the Office of Admissions.

Veterans application forms and general information are available in the Office of Veterans Affairs, SS/C 116.

ACADEMIC PROGRAMS

Office of Academic Affairs

Dr. James Roevers, *Vice President for Academic Affairs*

The Office of Academic Affairs coordinates the two academic divisions of Liberal Arts and Sciences and Professional Studies. A special campus-wide college orientation class, library course, the Honors Program, Writing Across the Curriculum Program, an interdisciplinary minor in Gerontology/Aging, and the Learning Resources Center are among the areas also coordinated by that office.

College Orientation

COL 101 College Orientation (2) i, ii, iii (lecture). Introduction to the academic and personal aspects of college life; includes instruction in use of campus resources, study skills, career exploration, personal development, and self-management skills; increases student understanding of the college education process. Varied emphasis in course sections may be offered.

COL 105 Library Resources and Research (1) i, ii. Develops general library skills, research techniques, and strategies for effectively accessing information.

Missouri Western offers several academic programs that are not necessarily limited to either of the two academic divisions. The Honors Program and the Writing Across the Curriculum effort are examples of areas that touch both the Liberal Arts and Sciences and Professional Studies.

Honors Program

Dedicated to academic excellence, the Honors Program at Missouri Western State College provides an enriched educational experience for the exceptional student.

The Honors Program, which is nationally affiliated, is composed of three major areas: General Studies Honors, Majors Honors, and Interdisciplinary Honors. Goals of the program are to foster the growth of intellectual inquiry, independence, and initiative in honors participants through an array of learning experiences including special courses, colloquia, and independent research and study. Each honors experience is simultaneously challenging, exciting, and enjoyable. The program is designed for the student who enjoys learning, and whose personal goals emphasize the pursuit of understanding and knowledge. Ultimately, the program provides students with academic training and skills which will serve them well in both their chosen careers and their personal lives.

HON 195 Honors Colloquium (2) i, ii. A special topics course designed for students participating in General Studies Honors. Elements of General Studies courses will be interrelated. This course may be repeated for credit.

HON 395 Honors Colloquium (2) i, ii. A special topics course designed for students participating in Majors or Interdisciplinary Honors. Elements of General Studies will be interrelated. This course may be repeated for credit.

HON 490 Honors Research (1-3) i, ii. Original student research in a discipline or combined disciplines. Students enrolled in this course must be working toward Interdisciplinary Honors or Majors Honors. This course cannot be used in disciplines where research courses already exist. Prerequisite: junior or senior student and consent of instructor and Honors Director.

Writing Across The Curriculum

Many faculty at Missouri Western are associated with a nationwide movement known as *Writing Across the Curriculum*. The purpose of this movement in higher education is to assert the importance of writing to the process of learning. As students move through their courses, they are asked to write in a variety of ways in order to learn the material at hand. Students might be asked to write down questions after a lecture, anticipate the meaning of new concepts before they are presented formally in class, write personal response papers that apply course concepts to their own lives, maintain scientific logs that require careful recording of observations, or keep journals in which they investigate their own values. In all of these opportunities to write, it is the intent of the faculty at Missouri Western to increase dialogue with their students and to help them learn how to discover, record, compare, synthesize, and evaluate new ideas.

Minor in Gerontology/Aging

MWSC offers an interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work.

Students seeking this minor must complete at least 21 credits from the following list of classes:

- *SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)

A 1-3 credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required of all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit his/her schedule. Contact the Coordinator of the Minor in the Department of Social Sciences or Academic Affairs Office for more information.

Hearnes Learning Resources Center

Hearnes LRC consists of the Library, Instructional Media Center (IMC), and Center for Academic Support. The units are linked in a philosophy of service to students, but each is unique in what it offers. The Library provides access to print materials, some non-print materials, and electronic databases; the Instructional Media Center provides access to non-print (audio-visual) materials; and the Center for Academic Support provides individualized instruction and tutoring.

LIBRARY

The Library maintains over 182,000 volumes and subscribes to more than 1,100 journals. It is also a State Government Documents Depository. Microfilm, company annual reports, CD-ROM products, pamphlet files, and newspapers provide additional unique information for users. Through Inlex, its computer-based catalog and circulation system, students can gain quick access

to the Library's collection. The Inlex catalog is also available via dial up and through the Internet. Service to clients is of the highest importance to the Library staff. Professionally trained librarians provide individual assistance to students and other users. These librarians help locate information and materials via interlibrary loan or computerized reference data base services. The Library has access to a national data base of over 24 million items, assuring that clients can usually obtain the specific item needed. Group bibliographic instruction is enhanced by the availability of a specially equipped classroom within the library.

Comfortable surroundings are conducive to study or leisure reading. Individual carrels and small study rooms are available for quiet study while lounge seating and an indoor garden provide a pleasant setting for relaxation and recreational reading.

INSTRUCTIONAL MEDIA CENTER

The Instructional Media Center (IMC) is located on the ground floor of the Hearnes LRC Building. The IMC's main office is LRC 150 and the IMC staff provides versatile audiovisual services, instructional design & production services and video telecommunication services to support a wide variety of campus needs. The IMC is open 73 hours per week to assist you. The IMC houses over 3,400 non-print educational items in videocassette, videodisc, 16mm and slide formats. All of these items are listed on INLEX, the Library's on-line catalog. If you wish to use any materials, please feel free to come into the IMC to review them. Also, the IMC staff will gladly assist you in locating non-print materials from off-campus sources or in applying audiovisual or video techniques in completing a class project. The IMC provides audiovisual/video equipment and materials for classroom use, audiovisual materials for student teacher use and photographic/video equipment for student projects.

In addition, the IMC operates a campus cable television network, a program feed to St. Joseph CableVision, an instructional television link with the University of Missouri, Kansas City and an Instructional Television Fixed Service (ITFS) to provide educational opportunities to local business, industry and health care sites.

CENTER FOR ACADEMIC SUPPORT

The Center for Academic Support is dedicated to helping students gain the skills and confidence they need in order to succeed in college. The primary focus of the Center is to complement students' classroom instruction by offering one-on-one tutorials in math and writing. In addition, students may request individualized instruction in reading, note taking, testing, time management, and other study strategies. The Center also sponsors study groups, private tutoring, and special workshops; these services are designed to assist students in both their general studies and upper division courses.

Staffed by full-time professionals and trained student tutors, the Center emphasizes individualized attention and flexible services. Most students receive one-on-one tutoring, while others work independently with computers, tapes, books, and audio-visual materials. The Center works closely with students who request special assistance due to learning disabilities and other challenges that may interfere with the students' full expression of their academic potential. Independent Study courses, taught by the professional staff, are also available for students who need extensive review of basic reading, math, English, and study skills.

The Center for Academic Support is located in the Learning Resources Center and is open 38 hours per week, including Sunday afternoons. The Center's services, materials, and programs are free to Missouri Western students of all ages and abilities.

The Division of Professional Studies

Dr. Charles Perkins, *Dean*

The Division of Professional Studies includes the Departments of Agriculture; Business and Economics; Criminal Justice and Legal Studies; Education; Engineering Technology; Health, Physical Education, and Recreation; Military Science; Nursing; and Office Information Systems. In addition the division offers programs in Allied Health for credit, and Intramurals for the students. The division provides professional and career-oriented education leading to one-year certificates and to the Associate of Science, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Nursing and Bachelor of Science in Technology degrees.

The division contributes to all facets of education within the college. Required and elective courses assist students in fulfilling general education needs; comprehensive offerings lead to the completion of degree requirements; and the varied electives allow program enrichment. The programs of the division are guided by a focus on career preparation and academic excellence.

The division is dedicated to the belief that the college is for students, and every effort is made to help students gain maximum benefits from their college program. The objectives of the division are to provide opportunities for:

- professional development, in which students are prepared to enter the career of their choice with the knowledge and skills necessary for personal success;
- academic preparation for graduate study if appropriate and desired by the student;
- personal development, in which a variety of courses are available through which students may broaden and enrich their understanding of themselves, mankind, and society;
- career exploration, in which, through a blend of on- and off-campus experiences, students can explore the field of their choice early in their academic program.

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

Preprofessional Programs

Preprofessional 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 a transfer institution early and should work closely with their academic advisor. Contact the academic department listed below for more information. Preprofessional programs in the Professional Studies division include:

Architecture (Engineering Technology Dept.)

Law (Business; Criminal Justice; Communication Studies, Theatre, and Humanities; English, Foreign Languages, Journalism; and Social Sciences Depts.)

Preprofessional programs in Chiropractic, Cytotechnology, Dentistry, Journalism, Law, Medicine, Med-Tech, Ministry, Mortuary Science, Optometry, Pharmacy, Physical Therapy, Speech Pathology, and Vet-Medicine may be found in the Division of Liberal Arts and Sciences section of this catalog.

Note: *Allied Health courses are now listed immediately after the Nursing classes in this catalog.*

Department of Agriculture

Dr. L. Cowsert, *Chairperson*

***The Bachelor of Science with a major in Agriculture is being discontinued at MWSC. Only students who officially declared their major in Agriculture prior to March 1992, will be allowed to complete the program. They should work closely with their academic advisors to ensure timely completion of the degree.**

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: research and education; production of food and fiber; and business and industry. Undergraduate curricular offerings in the Department of Agriculture are designed to provide a broad general education, while still allowing students sufficient opportunity to select professional electives to satisfy their special needs and desires.

The Department of Agriculture offers programs leading to the Bachelor of Science degree in agriculture with emphasis areas in agribusiness and general agriculture. Two options are available in the agribusiness emphasis area. The Agriculture option is designed for people who would like to work in agribusiness with direct contact with farmers. The curriculum contains several agricultural courses but also requires the students to complete a business minor. The Business option is designed for people who seek employment in agribusiness but are more interested in the business aspects of the job. The curriculum contains several business courses but also includes a core of agriculture courses so that graduates of the program are familiar with the terminology used in agriculture and the basic principles of agriculture. Graduates of both options within the agribusiness emphasis area would work for agribusinesses or agencies that provide goods and services to the farmer and help in the marketing, processing, and distribution of farm products.

The general agriculture curriculum is designed so that the student may select courses from several areas of study, thereby enabling him or her to hold positions in the general field of agriculture. Students interested in agronomy and animal science can select appropriate courses in these areas as part of their elective hours in the general agriculture curriculum.

A minor consists of 20 credits in a selected discipline. Students minoring in agribusiness must take AEC 150, 200, 308; students minoring in agronomy must take AGN 120, 222, 320; students minoring in animal science must take ASI 130, 236.

Bachelor of Science Degree Requirements

Agriculture Core		Major in Agriculture, General Agriculture Emphasis	
Requirements:	Credits	Requirements	Credits
AEC 150 Agricultural Economics	4	AEC 305 Farm Management	3
AEC 200 Agricultural Marketing	3	AGN 224 Grain Handling and Grading	2
AEC 308 Commodity Futures Markets	3	AGN 320 Soil Fertility	4
AGN 120 Plant Science	4	AGN 326 Agricultural Chemicals	3
AGN 222 Soil Science	5	ASI 236 Fundamentals of Animal Nutrition	3
ASI 130 Animal Science	4	ASI 330 Applied Animal Nutrition	4
AGR 111 Orientation to Agriculture	1	ASI 339 Livestock Evaluation	3
	24	AGR 430 Seminar	1
		AEC, AGR, AGN, or ASI courses	14
		BIO 101 Principles of Biology	5
		CHE 104 Fundamentals of Chemistry	5
			47
		Suggested Electives:	
		CSC 100 Computer Literacy	3
		AEC 304 Farm Finance and Accounting	4

Major in Marketing*All of the following:*

GBA 313 Business Statistics II	3
MKT 311 Consumer Behavior	3
MKT 381 Promotional Management	3
MKT 401 Marketing Research	3
MKT 481 Marketing Management	3
MKT 491 Marketing Seminar	3
	<hr/>
	18

Two of the following:

MKT 331 Retail Management	3
MKT 351 Sales and Sales Management	3
MKT 361 Product Strategy	3
MKT 389 Direct Marketing	3
MKT 451 International Marketing	3
ECO 361 Intermediate Microeconomics	OR
ECO 460 Business Cycles Forecasting	OR
GBA 313 Business Statistics	OR
MGT 418 Management Information Systems	OR
MAT 137 Calculus in Business & the	
Non-Physical Sciences	4

6 or 7**TOTAL CORE AND MAJOR CREDITS** 57 or 58

Bachelor of Science In Education, Major in Business Education - Degree Requirements

* The Bachelor of Science in Education with a major in Business Education is being discontinued at MWSC. Only students who officially declared their major in Business Education prior to March 1992 will be allowed to complete the program. They should work closely with their academic advisors to ensure timely completion of their degree.

Students enrolled in the Business Education program must have a composite score of 20 (18 if score transcript is dated prior to January 1, 1990) on the American College Test (ACT), achieve a passing score on the National Teachers Examination as mandated by the Missouri Department of Elementary and Secondary Education, and meet the admissions requirements of the Department of Education. Missouri certification requires a cumulative GPA of at least 2.50 at the time of graduation. If a transfer student substitutes a 300-level required course with an accepted transfer course, the transfer credit will meet the course requirement but is not counted as upper division credit. We will not accept a transferred junior college course for any 400-level course in the department.

Business Education Core	Credits
OIS 141 Document Formatting	3
OIS 150 Word Processing/Word Perfect 2	2
OIS 231 Electronic Calculator	1
OIS 233 Database/dBase IV	1
OIS 240 Advanced Document Production	3
OIS 261 Spreadsheet/Lotus 1-2-3	1
ACC 230 Principles of Accounting I	3
ACC 231 Principles of Accounting II	3
ACC 332 Accounting System and Control	3
ECO 260 Principles of Economics I	3
GBA 210 Business Statistics	3
GBA 211 Business Law	3
GBA 319 Business Communications OR	
OIS 350 Office Communications	3
MGT 312 Principles of Management	3
BUS 444 Meth. of Teach. Infor. Processing	3
BUS 455 Meth. of Tech. Business Subjects	3
	<hr/>
TOTAL CORE CREDITS	41

Major in Business Education*Choose one of two options:* Credits**SKILLS OPTION:**

OIS 146 SuperWrite	2
OIS 147 Dictation & Transcription	3
OIS 369 Information Processing	3
OIS elective	2
	<hr/>
	10

GENERAL BUSINESS OPTION:

ECO 261 Principles of Economics II	3
MKT 301 Principles of Marketing	3
Elective in Business or Office Information Systems	4
	<hr/>
	10

Professional Education:

SED 202 Intro. to Secondary Education	2
SED 203 Participation in Secondary Tch. I	1
SED 303 Experience in Secondary Tch. II	3
SED 304 Psychology in Secondary Tch.	4
SED 311 Secondary Reading Techniques	2
SED 404 Seminar in Secondary Education	3
SED 407 Psych. & Educ. of Except. Stu.	2
SED 409 Student Teaching III (Secondary)	9

26**TOTAL CORE AND MAJOR CREDITS** 77

Associate of Science Degree Requirements

The department offers an Associate of Science degree with a major in Mid-Management and 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. A 2.25 GPA is required in all core and major courses for the Associate Degree. No more than three hours of *D* will be allowed in those courses. Further information is available in the Office of the Department Chairperson. The requirements for this major follow:

Mid-Management Core	Credits	Data Processing Emphasis	Credits
GBA 110 Introduction to Business	3	CSC 184 Computing Concepts I	3
GBA 116 Business Mathematics <i>or</i>		CSC 185 Computing Concepts II	3
GBA 210 Business Statistics I	3	CSC 245 Introduction to COBOL	3
ACC 230 Principles of Accounting I	3	CSC 345 Advanced COBOL	3
ACC 231 Principles of Accounting II	3	Any 200 level or above CSC elective	3
ECO 260 Principles of Economics I	3		<u>15</u>
ECO 261 Principles of Economics II	3	TOTAL CORE AND EMPHASIS CREDITS	39
MGT 312 Principles of Management	3		
MKT 301 Principles of Marketing	3		
TOTAL CORE CREDITS	24		
		Retailing Emphasis	
Accounting Emphasis		MKT 311 Consumer Behavior	3
ACC 330 Intermediate Accounting I	3	MKT 351 Sales and Sales Management	3
ACC 331 Intermediate Accounting II	3	MKT 331 Retail Management	3
ACC 333 Cost Accounting	3	MKT 381 Promotional Management	3
ACC 336 Tax Accounting	3	MKT 389 Direct Marketing	3
Upper-level ECO, MGT, MKT, GBA	3		<u>15</u>
	<u>15</u>	TOTAL CORE AND EMPHASIS CREDITS	39
TOTAL CORE AND EMPHASIS CREDITS	39		
Banking and Finance Emphasis			
BAN 253 Bank Management	3		
ECO 363 Money and Banking	3		
GBA 211 Business Law I	3		
MGT 315 Financial Management	3		
<i>Two of the following:</i>			
AGB 304 Agricultural Finance and Accounting	3		
BAN 250 Principles of Bank Operations	3		
BAN 251 Deposit Operations	3		
BAN 252 Trust Business	3		
	<u>6</u>		
	<u>18</u>		
TOTAL CORE AND EMPHASIS CREDITS	42		

Departmental Minors

A 2.25 GPA is required in the minor degree courses. No more than three hours of *D* will be allowed in those courses.

Accounting	<i>Credits</i>
ACC 230-231 Principles of Accounting I & II	6
ACC 330-331 Intermediate Accounting I & II	6
ACC 332 Accounting Systems and Control	3
Two accounting elective courses	6
	<hr/> 21

Economics	
ECO 260-261 Princ. of Economics I & II	6
ECO 360 or 361 Intermediate Micro- or Macro-Economics	3
Three upper division economics electives	9
	<hr/> 18

International Business	
GBA 317 Introduction to Int'l Business	3
MKT 451 International Marketing	3
ECO 461 International Economics	3
ECO 463 Comparative Economic Systems	3
FRE 102 or GER 102 or SPA 102	4
FRE 112 or GER 112 or SPA 112	4

2 of the following:

HIS 340 Recent European History	3
HIS 350 History of the Far East	3
HIS 370 History of Latin America	3
PSC 210 Comparative Political Systems	3
PSC 340 Latin American Political Systems	3
PSC 345 Politics of the Middle East	3
PSC 350 Governments of Britain and the Commonwealth	3
PSC 440 International Law & Organization	3
	<hr/> 6
TOTAL	<hr/> 26

Accounting Courses

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. Students should be aware that a knowledge of basic algebra is a very useful tool in performing and understanding accounting functions. Prerequisite: A score of 14 or above on ACT math test if taken prior to October 1989 or a score of 18 on the math enhanced ACT test or completion of GBA 116 with a grade of C or higher, or MAT 112 or higher.

ACC 231 Principles of Accounting II (3) i, ii, iii. 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 with a grade of C

It is recommended that students take the following General Studies courses:

GEO 100; SOC 120; PSC 101.

Management

ACC 230 Principles of Accounting I	3
MGT 312 Principles of Management	3
MGT 412 Human Resources Management	3
MGT 414 Organizational Behavior	3
Three upper division management electives	9
	<hr/> 21

Marketing	<i>Credits</i>
GBA 210 Business Statistics I	3
MKT 311 Consumer Behavior	3
MKT 301 Principles of Marketing	3
MKT 381 Promotional Management	3
MKT 401 Marketing Research	3
MKT 481 Marketing Management	3
Two marketing elective courses	6
	<hr/> 24

General Business

(Non-business majors only)

GBA 110 Introduction to Business	3
ACC 230 Principles of Accounting I	3
ECO 260 Principles of Economics I	3
GBA 211 Business Law I	3
MKT 301 Principles of Marketing	3
MGT 312 Principles of Management	3
ACC 231 Principles of Accounting II or	
ECO 261 Principles of Economics II	3
	<hr/> 21

Additional Requirements

For A Departmental Minor

Only students with a major outside the Department of Business and Economics will be granted a minor in General Business. Any student may qualify for the other minors. A minimum of 2.25 grade point average and no more than three hours of *D* in the required courses are necessary for the minor certification.

or higher.

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 with a grade of C or higher.

ACC 331 Intermediate Accounting II (3) i, ii. 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) ii. 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); emphasizes billing, sales, purchases, and payroll procedures. Prerequisite: ACC 231.

ACC 333 Cost Accounting (3) i, ii, iii. Studies 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, including standard costing, variance analysis, and c-v-p analysis. Prerequisite: ACC 231 and GBA 210.

ACC 336 Tax Accounting (3) i, ii. Introduction to taxation, including both federal and state taxes to which many small businesses and individuals are subject; includes payroll, sales, and income taxes; partnership and corporate income taxation. Prerequisite: A minimum of 9 hours of accounting courses.

ACC 337 Budget and Governmental Accounting (3) i. Principles of fund accounting, financial reporting and budgetary control in not-for-profit organizations. Various budgetary systems; governmental and institutional auditing; special problems. Prerequisite: ACC 330.

ACC 432 Advanced Cost Accounting (3) i. Studies cost accounting as a tool for management in the decision-making process, including quantitative methods, such as linear programming, statistical analysis, quality control, PERT, and queuing, that relate to the total business structure. Prerequisite: ACC 333.

ACC 433 Auditing (3) i, ii. Verification of records, valuation and analysis of accounts, and presentation of conditions. Practical audit cases. Prerequisite: ACC 331.

ACC 434 Advanced Auditing (3) i. Continuation of ACC 433, with emphasis on computer applications, not-for-profit organization audits will be examined. The course will be taught on an informal basis allowing the student to independently plan and administer an audit. Audit report writing will be studied. Prerequisite: ACC 433.

ACC 435 Advanced Financial Accounting (3) i, ii. Accounting principles and procedures relating consolidated statements, partnerships, inflation, and other financial accounting topics. Problems and case studies required with an emphasis in theory. Prerequisite: ACC 331.

ACC 439 Advanced Tax Accounting (3) ii. Special problems in the area of individual, partnership, and corporate taxation; includes sales and disposition of property, pension plans, liquidation, and reorganization of business organizations; tax planning and introduction to federal estate and gift taxation. Prerequisite: ACC 336 with grade of C or better.

ACC 450 Independent Study in Accounting (1-4) i, ii, iii. By arrangement. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor form, minimum 2.5 GPA in the major field of study and consent of Department Chairperson.

Agribusiness Courses

AGB 210 Agricultural Principles and Terminology (3) (on demand.) Introductory course in animal science and plant science. Discusses concepts of animal breeding, management, marketing, nutrition, and physiology of livestock industry and discusses importance and ecology of each crop including a study of the plant and plant parts.

AGB 304 Agricultural Finance and Accounting (3) (on demand.) Purpose and methods of keeping farm and agricultural records and procedures in accounting; principles involved in financing the farm business and the use of credit. Prerequisite: MAT 112 or higher, ACC 231.

AGB 419 Agricultural Policies and Regulations (3) (on demand.) Current problems and issues that face agriculturists and the regulations under which they operate. Prerequisite: MGT 312, MGT 315, and senior standing.

Banking Courses

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 Deposit Operations (3) ii (Even-numbered years at night). Provides an overview of the U.S. payments system, banking law and regulation, and current industry practices. It examines bank deposit-taking activities, considers how banks manage deposited funds, and explores the interbank EFT systems.

BAN 252 Trust Business (3) i (odd-numbered years at night). An overview of the trust department, including how it fits into the bank's overall operations, the services it provides, and how these services are delivered.

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 Courses

BUS 444 Methods for Teaching Information Processing (3) i. Examines the teaching strategies of information processing courses found in the secondary and postsecondary school curriculum. To be taken before SED 409. Prerequisite: Consent of advisor or SED 202 and 203.

BUS 455 Methods of Teaching Business Subjects (3) ii. Studies the methods and activities for teaching business education in the secondary school. To be taken before SED 209. Prerequisite: Consent of advisor or SED 202 and 203.

Economics Courses

ECO 101 Current issues in the Economy (3) i, ii, iii. Introductory course covering current economic events and problems facing our society. Class discussion of energy, unemployment, poverty, inflation and pollution among other topics is based upon a series of magazine and newspaper articles selected from a wide range of sources and arranged by topic. The process of economic thinking is then used to analyze the various parts of each issue as well as possible solutions.

ECO 260 Principles of Economics I (3) i, ii, iii. Introduction to basic principles of economics with emphasis on the analysis of unemployment, *GNP*, inflation, and public debt; discusses fiscal and monetary theories and public policies. Students should be aware that a knowledge of basic algebra is a very useful tool in understanding economic equations.

ECO 261 Principles of Economics II (3) i, iii, iii. Continuation of economic fundamentals but with emphasis on supply and demand analysis, factor markets, different market structures, international economics, and various economic problems. Prerequisite: ECO 260.

ECO 360 Intermediate Macroeconomics (3) ii. Intermediate-level theory course; examines determinants of *GNP*, employment, and inflation; emphasizes 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 Intermediate Microeconomics (3) i. Theoretical approach to the behavior of the individual buyer and seller in the marketplace; includes consumer demand theory, costs of production, and market structures ranging from pure competition to monopoly. Prerequisite: ECO 261.

ECO 362 Public Finance (3) ii Studies principles of taxation and public expenditures, 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 money and banking concepts introduced in ECO 260; includes 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 (even-numbered years). 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 261.

ECO 365 Government Regulation of Business (3) i. Analyzes the legislative and legal control of business and its implications for the various economic components of the American economy. Prerequisite: ECO 261.

ECO 367 Urban and Regional Economics (3) (on demand). Examines economic growth in the United States with emphasis on the problems of economic growth in the Midwest; looks at factors instrumental in determining economic growth in various segments of the economy; considers urban problems associated with growth. Prerequisite: ECO 261. **ECO 370 Agricultural Economics (3) (on demand).** Economic principles underlying the organization of agriculture; problems of pricing production costs, distribution, and relation of agricultural policy to the consumer. Prerequisite: ECO 261.

ECO 450 Independent Study in Economics (1-4) i, ii, iii. By arrangement. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form, minimum 2.5 GPA in the major field of study, and consent of Department Chairperson.

ECO 460 Business Cycles and Forecasting (3) i (odd-numbered years). Studies 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 GBA 210.

ECO 461 International Economics (3) ii. 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-numbered years). Development of various schools of economic thought: includes classical, neoclassical, institutional, Keynesian, and neo-Kenesian theories. Prerequisite: ECO 261.

ECO 463 Comparative Economic Systems (3) i (even-numbered years). Analytical study of the major alternative economic systems—capitalism, socialism, planned economies and mixed capitalism—with emphasis on the different economic and social problems associated with each type. Prerequisite: ECO 261.

ECO 466 Current Economic Problems (3) (on demand). Analytical study of various problems of current interest in economics. Course generally offered by arrangement only. Prerequisite: Senior standing.

Financial Management Courses

FIN 313 Real Estate (3) ii (even-numbered years). Principles of land evaluation and development; considers problems relating to purchase, transfer, lease, financing, and management of land and buildings.

FIN 315 Financial Management (3) i, ii. Introductory survey of the issues which face the financial manager of a firm; discusses liquidity versus profitability decisions, capital budgeting, planning needs and controlling uses of funds as well as the methods of procuring funds. Prerequisite: ACC 231, GBA 210, ECO 261, MAT 112 or higher.

FIN 316 Principles of Insurance (3) (odd-numbered years). Nature and use of insurance, structure, management, and regulation of insurance carriers; economic risk, principles of personal property, life, and casualty insurance.

FIN 320 Analytical Financial Management (3) i, ii. Analytical and theoretical survey of the issues facing the financial manager of the firm; discusses financial markets, security valuation concepts, capital budgeting, capital structure theory, dividend theory, working capital management, and long-term financing of the firm. Prerequisite: ACC 231, ECO 261, GBA 210, one

semester of calculus (MAT 137 or MAT 147 or MAT 167 or equivalent).

FIN350 Commodity Futures Markets (3) (on demand). Comprehensive study of the commodity futures markets, including the futures and options markets; encompassing the agricultural, financial, and international currency markets. History, function, mechanisms, trading techniques; and the use of these markets for price discovery, speculation, and risk avoidance (hedging) are included. Prerequisite: FIN 315 or FIN 320 and MKT 301, or consent of instructor.

FIN411 Investment Analysis (3) ii. An analytical and theoretical approach to security valuation concepts, portfolio analysis and management, and options and futures; discusses both traditional and technical techniques. Prerequisite: GBA 210 and FIN 315 or FIN 320.

FIN417 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 personal affairs); deals with the types, regulations, management, analysis, and control of consumer and commercial credit.

General Business Courses

GBA 110 Introduction to Business (3) i, ii. Introduction to the various activities and organizational structures in the business community; a general survey course which includes aspects of accounting, economics, management, and marketing. Designed to serve three groups of students—those majoring in other departments who would like to develop a broad understanding of business through a single course; those who are undecided about a major and would like to explore business as a possibility; and those freshmen planning a major in business in order to make a specific selection of an emphasis. RESTRICTIONS: Credit towards graduation requirements will not be given for BSBA declared majors who will have accumulated 60 or more hours of college credit by the end of the prior semester.

GBA 116 Business Mathematics (3) i, ii. Introduction to the daily mathematical problems that arise in business; designed for students who need additional experience in the application of basic business mathematical skills. RESTRICTIONS: Credit towards graduation requirements will not be given for BSBA declared majors who will have accumulated 60 or more hours of college credit by the end of the prior semester.

GBA 210 Business Statistics I (3) i, ii. Basic courses for students in business and economics; data collection and tabulation, graphic representation, measures of central tendency and dispersion, probability, types of distributions, sampling estimation, hypothesis testing, simple linear regression and correlation. Concentration is on interpretation. Course includes microcomputer application. Prerequisite: MAT 112 or higher.

GBA 211 Business Law I (3) i, ii. Introduction to the legal environment of business. Examines the constitutional and historical foundations of the American legal system; emphasizes contracts, personal property, bailments, and sales.

GBA 215 New York Viewpoint (2). Designed to make use of the unparalleled learning resources of New York City. The tour includes visits to both major stock exchanges, the Federal Reserve Bank, commercial banks and other Wall Street financial institutions, and corporate headquarters of companies listed among *Fortune's* 500 largest.

GBA 311 Business Law II (3) i, ii. A continuation of GBA 211 with emphasis on negotiable instruments and security devices under the Uniform Commercial Code; discusses partnerships, corporations, and other related areas. Prerequisite GBA 211.

GBA 313 Business Statistics II (3) (on demand). Continuation of the study of inductive statistical analysis; emphasizes the quantitative approach to management science concepts. Prerequisite GBA 210.

GBA 317 Introduction to International Business (3) i. Exposes the student to the theory, operations, and problems of doing business in an international environment, including aspects of economics, management, marketing and finance. Prerequisite: MGT 312 or by consent of instructor.

GBA 319 Business Communications (3) i, ii. Designed to meet the needs of business for better written and oral communications: covers principles of research, organization, and presentation of written memoranda, letters, and reports; oral presentations help develop necessary skills required in a business environment. Prerequisite: ENG 108 or 112.

GBA 375 Business Internship (1-6) i, ii, iii. An academic program which offers business majors an opportunity to integrate theory with actual business practice. Students work full-time or part-time for a company in a position related to their major. Anticipated learning objectives are established in a contract agreed to by the student, the company supervisor, and the departmental internship coordinator. May be repeated for a total of 6 credits. Prerequisite: Junior or Senior standing, 2.5 GPA, and consent of the departmental internship coordinator and department chairperson.

Management Courses

MGT 201 Fundamentals of MIS (3) i, ii. Today the knowledge of management information systems and the applications of computers in business become requirements for every business person. This course is intended to provide the students with the continuing knowledge and proficiency of business application software packages such as EOQ models, PERT/CPM models, financial analysis packages, employee scheduling and more. This course is also a prerequisite for the Principles of Management Information Systems course, MGT 418. Prerequisite: Basic word processing and spreadsheet proficiency are required.

MGT 312 Principles of Management (3) i, ii. Studies the objectives and functions of a business enterprise with emphasis upon management principles of planning, organizing, and controlling the organization. Prerequisite: ACC 231, ECO 261.

MGT 410 Small Business Management (3) i. Deals with all major aspects of starting and managing a small business. Includes 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 301.

MGT 412 Human Resources Management (3) i, ii. Policies and practices in personnel management, such as job analysis, selection of employees, placement training, employee services and industrial relations. Prerequisite: GBA 210, GBA 211, MGT 312.

MGT 414 Organizational Behavior (3) i, ii. Course focuses on advanced topics in human behavior in an organizational setting with particular focus on supervision and individual behavior. Prerequisite: MGT 312.

MGT 416 Production and Operations Management (3) i, ii. Development of scientific management principles and methods of organization and management in the manufacturing and service sectors. Includes plant location, scheduling, quality control, inventory management, operations, and information systems. Prerequisite: GBA 210 and MGT 312.

MGT 418 Management Information Systems (3) i, ii. A comprehensive view of the organization's information requirements and the role of computer information systems in gathering and producing information. Concepts of data resource management, assessing developments in information technology, and information systems' impact on organizations. Problems and techniques concerning the development and installation of responsive systems with special attention to managers' use of system outputs. Prerequisites: CSC 100 or CSC 184 or High School Equivalent, MGT 201, MGT 312, MGT 315.

MGT 419 Business Policy (3) i, ii. Examines current problems and issues facing business in a changing society. Prerequisite: MGT 312, FIN 315, MGT 414, MKT 301 and senior standing.

MGT 420 Small Business Practicum I (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. Prerequisite: Completion of freshman/sophomore and professional cores, senior standing, and consent of instructor.

MGT 421 Small Business Practicum II (3) i, ii. Continuation of MGT 420, permitting the student an opportunity for an additional 3 hours of experience with real problems of the business entrepreneur. Prerequisite: MGT 420 and consent of instructor.

MGT 423 Industrial and Labor Relations (3) (on demand). Explores the historical development of labor unions in relation to the appropriate management techniques utilized in the labor management environment. Prerequisite: MGT 312.

MGT 424 Legal and Ethical Environment of Business (3) (on demand). Emphasis centers on the ethical issues in business as related to our contemporary society. Prerequisite: MGT 312.

MGT 450 Independent Study in Management (1-4) i, ii, iii. By arrangement. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form, minimum 2.5 GPA in the major field of study and consent of Department Chairperson.

Marketing Courses

MKT 301 Principles of Marketing (3) i, ii. Basic course defining marketing; its place within societies; the marketing concept; and introducing the marketing mix and its components, product, promotion, place and price.

MKT 311 Consumer Behavior (3) i, ii. Considers the consumer's decision process as well as the effects of both internal and external factors upon consumer purchasing behavior. The course emphasizes the application of consumer behavior theory to the development of viable marketing strategies. Prerequisite: MKT 301 or consent of instructor.

MKT 331 Retail Management (3) ii. A strategic approach to retailing which concentrates on planning, implementing and controlling such retail variables as location, personnel, merchandise, communication, price and the strategic methods of accomplishing specific objectives. Prerequisite: MKT 311.

MKT 351 Sales and Sales Management (3) i. The study of both selling techniques and sales force management principles. Prerequisite: MKT 311 or consent of instructor.

MKT 361 Product Strategy (3) i. Develops techniques of product management using the New Product Development Process, the Product Life Cycle, and strategic product analysis including image, placement, maintenance and replacement. Prerequisite: MKT 301.

MKT 381 Promotional Management (3) i, ii. Study of the promotion mix: advertising, publicity, sales promotion and personal selling. Analyzes the management and application of promotional strategies. Prerequisite: MKT 311.

MKT 389 Direct Marketing (3) ii. The practical and theoretical aspects of direct marketing including mail order and direct response marketing measurability, accountability, data and integration of direct marketing into the total marketing effort. Prerequisite: MKT 381.

MKT 401 Marketing Research (3) i, ii. Application of scientific research techniques and statistical analyses of information (data) relative to sound marketing management decision-making. Prerequisite: MKT 311 and GBA 313.

MKT 410 Marketing Agricultural Products (3) (on demand.) Principles underlying the marketing of farm products with emphasis on describing the marketing process. Prerequisite: ECO 370, MKT 301.

MKT 450 Independent Study in Marketing (1-4) i, ii, iii. By arrangement. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form, minimum 2.5 GPA in the major field of study, and consent of Department Chairperson.

MKT 451 International Marketing (3) ii. Applies marketing mix variables to the multinational market. Considers differences in cultural, legal, language and other environmental factors. Prerequisite: MKT 311 or consent of instructor.

MKT 481 Marketing Management (3) i, ii. This course introduces the entire strategic market planning process. Special emphasis is placed on having the student research and write a quality marketing plan for an existing business. In addition, students develop their marketing decision-making skills by competing in a computer simulation game. Prerequisite: MKT 401 or consent of instructor.

MKT 491 Marketing Seminar (3) i, ii. A capstone course integrating numerous marketing concepts. Students critically analyze and discuss both historical marketing successes and failures, and strategies currently employed by various business firms. A major component of the course involves student teams competing in a complex computer marketing simulation. Prerequisite: MKT 481.

Department of Criminal Justice and Legal Studies

C. Butcher, *Chairperson*

The Department of Criminal Justice and Legal Studies offers students the option of studying in two separate degree programs: Criminal Justice and Legal Assistant.

Students interested in the area of law enforcement, corrections and criminal justice may pursue one of two degree options available in the Criminal Justice Program: (1) An associate of science degree with a major in criminal justice or (2) A bachelor of science degree with a major in criminal justice.

Students interested in working as a professional legal assistant may major in the Legal Assistant Program. Missouri Western's Legal Assistant Program is a voting member of the American Association for Paralegal Education. In addition, the Program has received national recognition by being approved by the American Bar Association. In the Program, students may pursue a course of study leading to an associate of science degree with a major in legal assistant. Students desiring a baccalaureate degree may combine the legal major in legal assistant degree with studies in a cognate field to obtain a bachelor of science in technology.

Bachelor of Science in Technology (Two Plus Two)

Criminal Justice and Legal Assistant majors may earn a bachelor's degree by:

1. Completing their associate of science degree;
2. Completing a cognate field of 24 to 30 credits in a discipline offering a baccalaureate degree;
3. Fulfilling the general studies requirements for a baccalaureate degree; and
4. Earning the minimum credits necessary for a baccalaureate degree.

Criminal justice majors may also continue their course of study to obtain a bachelor of science degree in criminal justice.

Criminal Justice

The Criminal Justice Program offers two separate degrees and a minor.

- **Associate of Science.** Offered with a major in criminal justice.
- **Bachelor of Science.** Offered with a major in criminal justice.

The criminal justice program seeks to prepare the student for entry into or advancement within the criminal justice system in any of the many areas existing within the career field. Such areas include:

- **Juvenile justice agencies:** Most juvenile justice agencies presently require a degree in a related area.
- **Investigative agencies:** Federal, state, county and local agencies, including private investigative agencies.
- **Conservation agencies:** These agencies enforce wildlife regulations.
- **Corrections agencies:** Institutions and probation/parole systems within federal, state and county governmental levels.
- **Industrial security:** Corporate interests nationwide.

Associate of Science Degree Requirements

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; plus 9 credits of restricted electives from the following courses: SOC 400, 430; PSC 110; PSY 210, 309; LAW 110, 250, 320, 340, 360, & 410; OIS 140 or 141; ENG 108.

Bachelor of Science Degree Requirements

Entry into the baccalaureate program in Criminal Justice is through completion of an accredited associate degree program in Criminal Justice or related field (if completed at MWSC this would include 39 credits in Criminal Justice and related area courses); a 2.5 GPA in a major field of study is also required. The Bachelor of Science degree in Criminal Justice consists of 33 credit hours with 27 of those credits in required courses: LAW 110, 250, 320, 340, 360, 410, 470, SOC 430; PSY 210; and 6 hours of restricted electives from the following courses: SOC 400, PSY 309, 319, 325, 365; COM 305, 345; LAW 420, 480, 490.

Transfer students with an A.S. or A.A. degree who have not completed LAW 100, 160, 220, 260 and 280 or their equivalents may be required to take LAW 100, 160, 220, 260 and 280 as prerequisites for upper division criminal justice courses.

Minor in Criminal Justice

Courses in criminal justice must total 18 credits. The student must choose four (4) of the following courses: LAW 100, 110, 120, 140, 160, or 260. In addition a student must choose six (6) credits of LAW courses numbered 300 or higher.

Criminal Justice Courses

LAW 100 Introduction to Criminal Justice (3) i, ii, iii. A survey of the philosophical and historical background of the criminal justice system as it relates to the individual; 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, and an assessment of specific role performance of various members of the criminal justice system including major aspects of civil process.

LAW 110 Juvenile Delinquency (3) i, ii, iii. Studies 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. Survey of the responsibilities and duties of the uniformed patrol; special emphasis on patrol procedures, mechanics of arrest, search, and seizure, interpretation and evaluation of information received on patrol, and accurate report writing.

LAW 140 Traffic Control and Accident Investigation (3) i, ii. Introduction to traffic control and accident investigation in modern cities: reviews principles of organizing and administering police units for traffic enforcement, accident prevention, and safety education; presents basic techniques of accident investigation, analysis, and interpretation.

LAW 160 Principles of Investigation (3) i, ii, iii (odd-numbered years). Introduces modern investigative methodology; emphasizes 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, ii, iii (odd-numbered years). Survey of the public service agency and its role in the community; emphasizes the importance of the individual and his/her relationship to the public served; outlines a general program of community relations to be undertaken by public service agencies. Prerequisite: LAW 100.

LAW 200 Penology and Corrections (3) i, ii. The origins and theories of punishment and the prison system; introduces principles and programs of institutional correction and special problems in administration; reviews modern recommendations for improvement of the system. Prerequisite: 6 credits in criminal justice.

LAW 220 Police Administration (3) i, ii, iii (even-numbered years). Introductory survey of current police administrative methodology; reviews the organization of the police service, police functions, principles of police management, operational services within police agencies and the role of the police administrator in personnel assignment and evaluation. Prerequisite: 6 credits in criminal justice.

LAW 250 Criminal Justice Communications (3) i, ii. The study of effective use of oral and written forms of communications in the Criminal Justice profession. The basic development of interviewing and interrogation techniques, along with the mechanics of written reports in criminal justice. Prerequisites: ENG 104 and COM 104 or 105. Required for a BS Degree in Criminal Justice and a restricted elective on the AS Degree in Criminal Justice.

LAW 260 Criminal Law (3) i, ii, iii (even-numbered 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: 9 credits in criminal justice.

LAW 270 Probation and Parole (3) i. Examines probation and parole alternatives to confinement and their effectiveness in curbing future criminal behavior. Prerequisite: LAW 200.

LAW 280 Criminalistics (3) i, ii. Introductory survey of modern methodology for police laboratories; reviews the need for professional investigations, and introduces the means of achieving high degrees of proficiency in the field of scientific criminal inquiries. Prerequisite: 12 credits in criminal justice, including LAW 160.

LAW 290 Practicum in Criminal Justice (3) i, ii, iii. Designed to provide students with 40 hours of practical experience, monitored by the instructor in a supervised setting with a criminal justice agency. Prerequisite: completed major application in the Criminal Justice Department and a sophomore status.

LAW 320 Criminal Evidence (3) i, ii. Comprehensive study of evidentiary rules and procedures that apply to the enforcement of criminal law and the stages of investigation and trial. Prerequisite: LAW 160, 280, or consent of instructor.

LAW 340 Juvenile Law and Procedures (3) i, ii. The jurisdiction of juvenile courts; their function and organization; processing the detention of juveniles; case disposition; juvenile statutes; and court procedures. Prerequisite: LAW 110, or consent of instructor.

LAW 360 Criminal Justice Planning (3) i, ii. Concepts and development of comprehensive criminal justice plans, including techniques in gathering and analyzing crime and socioeconomic data and their influence on the operation of criminal justice agencies. Prerequisite: LAW 220 or consent of the instructor.

LAW 410 Intermediate Criminal Law (3) i, ii. Explores criminal law and examines court decisions as they pertain to functional law enforcement procedures. Prepares the individual to maintain professional skill levels in this area over an extended period of time. Prerequisite: LAW 260.

LAW 420 Criminal Justice Senior Research (6) i, ii, iii. Research of selected problems, by arrangement and open only to seniors. Prerequisite: Completion of the B.S. in criminal justice, a minimum of 3.0 GPA in major field of study, and consent of department chairperson before registration.

LAW 450 Independent Study In Criminal Justice (3) i, ii, iii. Investigation of selected course which is not otherwise available. By arrangement and open only to seniors. Prerequisite: The student is required to obtain consent of the department chairperson.

LAW 470 Senior Seminar in Criminal Justice (3) i, ii. Individual reports, group discussion, and guest speakers on selected topics. This seminar course must be taken during the student's senior year. Prerequisite: Senior status in criminal justice and completed major application for B.S.

LAW 480 Internship in Criminal Justice (1-6) i, ii, iii. Applies criminal justice theory and skills to an actual work situation in law enforcement, corrections, courts, security, and government agencies. Application must be made with the department prior to enrollment in the course. Prerequisite: 60 credits completed towards the B.S. degree in criminal justice, junior status, 2.0 GPA cumulative with a minimum 2.5 GPA in his/her program major. (1 credit is comparable to 5 hours, up to 6 credits for 27 hours of work per week for the entire semester.)

LAW 490 Advanced Practicum in Criminal Justice (6) i, ii, iii. Field experience of 120 hours under the supervision of the instructor. Application must be made with academic advisor before registration for the course. Prerequisite: Senior status and a completed B.S. major application in criminal justice.

Legal Assistant

David A. Dye, *Coordinator*

The Program in Legal Assistant offers a course of study designed to prepare the individual to work in the new and evolving paralegal profession. A student in this program will be taught the skills needed to obtain an entry level position as a legal assistant. The skills the student will learn include legal research, interviewing, investigation, legal drafting, preparation of evidence and witnesses for trial, and assisting in the trial of a lawsuit.

This program prepares individuals for career opportunities in small law firms, large law firms of fifty attorneys or more, legal departments of banks, insurance companies, land title insurance companies and other corporations, legal aid offices, public defender offices, the office of the prosecuting attorney, and municipal legal departments.

To graduate from the program students must:

- Satisfactorily complete all courses required in the program;
- Perform legal research and analysis by using legal research material;
- Draft and prepare legal documents;
- Identify and explain the various functions performed by a legal assistant;
- Explain the role of the legal assistant working in a law office;
- Identify ethical issues, rules and standards that a legal assistant must follow when working under an attorney's supervision. (A legal assistant's conduct is expected to conform to these ethical standards.); and
- Perform the functions of a legal assistant under the supervision of a practicing attorney.

Legal Assistant Certificate

The specialized Legal Assistant Certificate program enables students to focus on the technical, legal specialty courses that will enable them to work as legal assistants. The program is designed for the student who has already earned a substantial number of college credits, or even a college degree, and by reason of education and experience, only needs selected courses to round out her/his education.

Entrance requirements:

Students must have earned at least 30 college credits prior to enrolling in the program. Eighteen of these hours must be general education elective credits. General education is defined as post-secondary courses in the following areas: 1) language and composition, 2) mathematics, 3) social and behavioral sciences, 4) physical and biological sciences, and 5) theater and humanities. This must include ENG 104 and ENG 108 (or their equivalents or otherwise demonstrate a proficiency in English).

To earn a Certificate in Legal Assistant, the student must complete the following requirements:

1. Complete all core requirements (23 credits);
2. Complete at least 3 restricted electives (9 credits); and
3. Maintain a grade point average of 2.5 or higher.

Core Requirements (23-25 credits)

	Credits		Credits
LAT 105 Introduction to Law	3	LAT 200 Legal Writing	2
LAT 115 Paralegal Studies	2	LAT 290 Legal Assistant Practicum	3
LAT 120 Legal Research	3	LAT 292 Selected Legal Topics	1-2
LAT 125 Litigation	3	ACC 230 Principles of Accounting I	3
LAT 160 Evidence	3	(or GBA 116 Business Math)	

Denial of teacher certification because of failure to pass the National Teachers Examination will be stated on a person's transcript until such time as the test is passed and certification is granted. A person fulfilling degree requirements may be eligible to graduate from Missouri Western State College with or without teacher certification.

Special Programs

Academic contracts (one- and two-year temporary Missouri certification) and alternative certification approved by the Missouri Department of Elementary and Secondary Education are available at Missouri Western State College. Interested persons should contact the Chairperson of the Department of Education.

Certification Evaluation

There will be a \$25.00 fee charged for an extensive transcript evaluation for a person who has a degree, and inquires about teacher certification requirements. If the person subsequently enrolls at Missouri Western State College, the fee will be refunded.

Elementary Education

The Department of Education faculty is committed to the professional preparation of teachers for employment in elementary 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 of elementary grades;
- warm, understanding, and empathizing in the area of humanizing education, implementing the idea that "teachers teach students, not just subject matter," following the Schnur-Van Manen Reflective Teaching Model; and
- ready to assume an active role in the profession of teaching.

The following general studies requirements for elementary majors must be satisfactorily completed: MAT 112 or 116; ENG 104 and 108, or ENG 112; COM 104 or 105; BIO 101 or 111; CHE 101 or 111 or PHY 101 or 110 or 210 or ESC 111; or PHY 104; PSY 101; HIS 140; PSC 101; HUM 203 or 205; ENG 210; ART 100 or MUS 101 or THR 113; PED 101; PED activity.

In addition to the general studies and the professional sequence, the elementary major is required to complete successfully the following courses: ART 300; EED 310, 320, 330, 340, 360, 409; ENG 300; GEO 100; MAT 350, 351; MUS 220; PED 300 and 380 or 382; PHS 230; EED 331.

The elementary major must also select one area of academic subject concentration from a possible set of fifteen areas to broaden one's expertise in at least one subject area. The requirements for each subject concentration are determined by the MWSC Education Department in consultation with the various academic departments.

Five of the concentration areas also yield an additional teaching certification (called an added endorsement) approved by the Missouri Department of Elementary and Secondary Education. Those five areas are early childhood education (grades pre-kindergarten to grade 3), early childhood special education (birth to kindergarten), teaching the behaviorally disordered (grades kindergarten to grade 9), teaching the mentally handicapped (grades kindergarten to grade 9), and teaching the learning disabled (grades kindergarten to grade 9). Courses required for the five added endorsements are listed at the end of the elementary education course listings in this catalog.

The other ten subject areas of concentration include creative arts (art or music concentration), English, Spanish, French, German, mathematics, physical education, reading, general science, and social science. The specific course requirements for each of the ten areas of concentration are available from the Education Department. Early planning of one's total program is highly desirable.

The Professional Sequence

The professional sequence is as follows:

	<i>Credits</i>
EED 202 Introduction to Elementary Education	2
EED 203 Participation in Elementary Teaching I	1
EED 303 Experience in Elementary Teaching II	3
EED 305 Psychology in Elementary Teaching	4
EED 403 Seminar in Elementary Education and Human Relations	3
EED 408 Elementary Student Teaching III	9
EED 410 Psychology and Education of the Exceptional Child	2

Total Credits 24

EED 331 Instructional Media and Technology (2) i. Provides an understanding of why and how instructional materials improve the teaching/learning process, how to locally prepare instructional materials, and how to operate computers and other instructional equipment normally found in schools. Two hours lecture, one hour lab. Lab fee required. Prerequisite: EED 203 or SED 203.

EED 340 Social Studies Methods for Elementary Teachers (2) i, ii. General survey course of skills, concepts, methodologies, strategies, and curriculum development of elementary social studies; includes inquiry learning, problem solving, current events, interpretation of pictures, charts, graphs, tables, maps, and time lines, and location and evaluation of information. Prerequisite: HIS 140 or HIS 150, PSC 101, GEO 100.

EED 342 Evaluation of Abilities and Achievement (2) i. Principles and techniques of administration, application, and interpretation of tests, test results, and data. Prerequisite: EED 303 and 305 or SED 304, or consent of department chairperson.

EED 353 Introduction to Special Education (1) i. Surveys history of and current issues in the field including legislation and litigation, delivery of services, and the Individualized Education Plan (IEP). Prerequisite: EED 203 or consent of Department Chairperson.

EED 354 Introduction to Mentally Handicapped Students (1) i. Examines social, cognitive, emotional, and other developmental aspects of mentally handicapped students; studies prevalence, etiology, classifications, counseling of the handicapped and their families, and facilitating development of independent living skills. Prerequisite: EED 203, EED 353, or consent of department chairperson.

EED 355 Introduction to Behaviorally Disabled Students (1) i. Evaluates different theoretical approaches to cause, identification, evaluation procedures, and techniques of treatment for the behaviorally disordered; surveys definitions, historical landmarks, deviance, and intervention strategies. Prerequisite: EED 203, EED 353, or consent of department chairperson.

EED 356 Introduction to Learning-Disabled Students (1) i. Studies characteristics, history, diagnosis, and theories of learning disabilities. Prerequisite: EED 203, EED 353, or consent of department chairperson.

EED 357 Introduction to Early Childhood Special Education: Curriculum Development (2) i. Provides an overview of the field of early childhood special education and an understanding of pupil characteristics, rationale of providing early intervention, issues, and the theory of curriculum development.

EED 358 Introduction to Early Childhood Education (2) i, ii. Provides an overview of the field of early childhood education and an understanding of pupil characteristics, rationale for providing early enrichment experiences, issues, and the theory of curriculum development.

EED 360 Assessing and Individualizing Reading (3) i, ii. Acquaints the classroom teacher with philosophy, theories, pertinent studies and findings, and test instruments aiding perception and analysis of performance levels and behaviors in learning to read; develops expertise in determining the strengths and weaknesses of each pupil and the causal relationship of the total reading performance pattern; develops observation and evaluation skills to study, develop, and utilize selected evaluation instruments for adapting class methods and materials to the needs of students. Prerequisite: EED 310 or SED 311.

EED 370 Behavior Management (2) i. Designed to provide classroom management skills for teaching both large groups and small classes of exceptional students. The course will focus on theories of applied behavioral analysis and its application for effective teaching. Behavior modification, cognitive behavior management, self-management, and social skills training will be included. Prerequisite: PSY 101.

EED 380 Reading Approaches/Phonics (1) (on demand). Teaching reading through the sound/symbol relationship. Prerequisite: EED 310 or SED 311.

EED 381 Reading Approaches/Linguistic (1) (on demand). Teaching reading through word and sentence structure. Prerequisite: EED 310 or SED 311.

EED 382 Reading Approaches/Enrichment (1) (on demand). Using literature, story telling, dramatics, and creative writing to enrich the reading experience. Prerequisite: EED 310 or SED 311.

EED 383 Reading Approaches/Language Experience (1) (on demand). Teaching reading whereby the child creates or writes his/her own material. This method capitalizes on the relationship between reading and the other language developments of the child. Prerequisite: EED 310 or SED 311.

EED 384 Reading Approaches/Individualized (1) (on demand). Teaching reading whereby the student is directed to select his or her own reading material. Prerequisite: EED 310 or SED 311.

EED 385 Reading Approaches/Basal Reader (1) (on demand). Teaching reading through the use of a basal textbook. Prerequisite: EED 310 or SED 311.

EED 403 Seminar in Elementary Education and Human Relations (3) i, ii. Studies philosophical, ethical, and legal problems related to elementary education; explores instructional strategies, general methodology, evaluation procedures, and interpersonal relations applied to teaching. To be taken concurrently with EED 408 and EED 409.

EED 408 Elementary Student Teaching III (9) i, ii. A semester of clinical experience in an off-campus situation under a certified cooperating teacher. To be taken concurrently with EED 403 and EED 409. Prerequisite: EED 203, 303, and 305.

EED 409 Elementary Problems in Reading (2) i, ii. An application course involving in-depth review of and research in the two preceding reading courses in areas where the student indicates need for greater expertise. To be taken concurrently with EED 403 and EED 408.

EED 410 Psychology and Education of the Exceptional Child (2) i, ii. Designed to give all teachers background and experience in working with the exceptional child in the regular classroom.

EED 412 Early Childhood Language Acquisition and Development (2) i. An introduction to the normal language development, the developmental stages, and language development theories. The course enhances an appreciation of language differences in the young child. Prerequisite: EED 357 or EED 358.

EED 413 Language Development of Exceptional Children (2) ii. This course is intended to acquaint the student with the types of speech and language disorders from birth through maturation. It will include normal development of speech and language, articulation disorders, speech defects, assessment and remediation of language disorders, and the identification and training for the hard-of-hearing.

EED 414 Methods of Teaching the Mentally Handicapped (3) ii. Special techniques for teaching the atypical child. Prerequisite: EED 303 and 305 or SED 304 or consent of department chairperson.

EED 415 Methods of Teaching the Behaviorally Disordered (3) ii. Special techniques for teaching the emotionally disturbed child. Prerequisite: EED 303 and 305 or SED 304 or consent of department chairperson.

EED 416 Methods of Teaching the Learning Disabled (3) ii. Special techniques for teaching the child with learning disabilities. Prerequisite: EED 303 and EED 305 or SED 304 or consent of department chairperson.

EED 417 Health, Nutrition and Safety of the Young Child (2) ii. Designed to present information about current concepts in health, safety and nutrition of the young child. The course encourages good health habits and attitudes in the future teacher so that he or she will be a positive role model to the young children with whom they work. Prerequisite: EED 357 or EED 358.

EED 418 Screening, Diagnosis and Prescribing Instruction for Early Childhood (2) ii. Course acquaints the interventionist with the philosophy, theories, pertinent studies, issues and test instruments appropriate for early childhood special education. Principles and techniques of administration, application and interpretation of tests, test results, and data are discussed. Linking assessment to curriculum development is also discussed. Prerequisite: EED 357 or EED 358.

EED 419 Utilizing Family and Community Resources for Early Childhood Education (2) i. This course is designed to emphasize the importance of parental involvement in early childhood education as well as to acquaint the student with the various community agencies and services available to the young child, parents and teachers. Prerequisite: EED 357 or EED 358.

EED 420 Counseling Techniques/Parents (2) ii. Designed to foster parent-teacher cooperation; includes communication and conflict resolution strategies applicable to educationally related situations (including IEP conferences and regular parent-teacher conferences) with exceptional students, families of exceptional students, and other professionals. Prerequisite: EED 410.

EED 421 Experience in Teaching Mentally Handicapped Students (6) i, ii. Off-campus experience with mentally handicapped students in cooperating schools as a teacher associate. Prerequisite: EED 414 or consent of department chairperson.

EED 422 Experience in Teaching Behaviorally Disordered Students (6) i, ii. Off-campus experience teaching behaviorally disordered students in cooperating schools as a teacher associate. Prerequisite: EED 415 or consent of department chairperson.

EED 423 Experience in Teaching Learning Disabled Students (6) i, ii. Off-campus experience teaching students with learning disabilities in cooperating schools as a teacher associate. Prerequisite: EED 416 or consent of department chairperson.

EED 440 Curriculum Methods and Materials in Early Childhood Education (2) ii. Designed to acquaint the early childhood educator with techniques, methods, and materials for use with the young child.

EED 450 Independent Study (credit hours open) i, ii. A research-oriented course intended to extend the competencies of the student in a particular area. Prerequisite: consent of department chairperson.

EED 460 Experience in Early Childhood Education (4) i, ii. Off-campus experience in teaching the young child in cooperating preschools and kindergartens. Prerequisite: EED 440.

EED 461 Experience in Early Childhood Special Education (6) i, ii. Off-campus experiences in teaching the young handicapped infant, toddler, and preschooler in cooperating schools and/or private agencies. Prerequisite: EED 440.

EED 483 Practicum I in Reading: Diagnosis of Reading Difficulties (3) i. Clinical diagnosis in evaluation of reading and learning problems. Prerequisite: EED 310, EED 360, EED 342, and consent of department chairperson. One hour lecture, three hours lab. Course can only be taken on MWSC campus.

EED 484 Practicum II in Reading: Remediation of Reading Difficulties (3) i. Clinical treatment of identified reading and learning problems. Prerequisite: EED 483. One hour lecture, three hours lab. Course can only be taken on MWSC campus.

EED 490 Applied Education Practices (1-9) (on demand). Workshops will be developed in selected areas in accordance with student interest.

Secondary Education

The Department of Education has an overall objective of providing secondary schools with the best possible teachers by providing 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 teach students, not just subject matter," with a background well attuned to the human aspects of the educational process, following the Schnur-Van Manen Reflective Teaching Model; and
- functioning in a variety of teaching situations, from the traditional to the innovative; in professional preparation, students learn new and different approaches to secondary education as well as time-tested methods.

The general studies requirements must be satisfactorily completed. The specific requirements in the major field are set by the departments. Secondary education majors are available in the following fields: art, business*, English, music, and speech and theatre. Certification in a second teaching area is available in the majority of these fields. The requirements for second teaching areas are available from a secondary education advisor in the Education Department.

*** The Bachelor of Science in Education with a major in Business Education is being discontinued at MWSC. Only students who officially declared their major in Business Education prior to March, 1992, will be allowed to complete the program. They should work closely with their academic advisors to ensure timely completion of their degree.**

For teacher education in the areas of biology, chemistry, mathematics, physical education, and social sciences, please refer to those specific program descriptions for requirements and options.

Secondary teacher certification is for grades 7 to 12 with the exception of Art, Music, and Physical Education where the certification is for kindergarten to grade 12.

General Studies Requirements:

B.S. (Teacher Certification) & B.S.E. Degrees

(Effective May, 1984)

Credits

Category One — Basic Skills

12

1. MAT 112 (or any higher-level mathematics course of at least three credits)
2. ENG 104 and 108 or 112 (6 credits)
3. Select one course from the following (3 credits):
COM 104 or COM 105

Category Two — Natural Sciences

8-10

BIO 101 (BIO 111 may be substituted), and one other course from the following:

1. CHE 101 or CHE 104 or CHE 111
2. ESC 111
3. PHY 101 or PHY 110 or PHY 210
4. PHY 104

Category Three — Social Sciences

9

1. PSC 101
2. PSY 101
3. HIS 140 or HIS 150

Category Four — Humanities

9-10

Select one course each from three of the following groups:

1. HIS 100, HIS 110, HUM 203, HUM 205
2. ENG 210, HUM 210, HUM 230, HUM 250
3. ART 100, MUS 101, THR 113
4. FRE 102, GER 102, SPA 102

Category Five — Physical Health

4

1. PED 101 (3 credits)
2. One physical education activity or MIL 105

Total

42-45

The Professional Sequence

Credits

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 311 Secondary Reading Techniques	2
SED 312 Laboratory in Secondary Reading Techniques (<i>optional</i>)	1
SED 404 Seminar in Secondary Education & Human Relations	3
SED 407 Psychology and Education of the Exceptional Student	2
SED 409 Secondary Student Teaching III	9

Total credits

26-27

The Professional Semester

Secondary Student Teaching III (SED 409) is to be taken during the 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, 407, and 409. Petition for any additional coursework must be submitted to the coordinator of clinical experiences in the semester prior to Secondary Student Teaching III. If granted, approval will be endorsed by the cooperating teacher to whom the student is assigned.

Students enrolled in Secondary Student Teaching III will assume the daily teaching schedule of the cooperating teacher.

Secondary Education Courses

SED 100 Introduction to Personal Development (2) (on demand). Intensive eight-week course designed to increase the participant's understanding of his or her unique role as a learner and to stimulate the 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 personal values.

SED 202 Introduction to Secondary Education (2) i, ii. Basic introduction to professional education. 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 and time as SED 203. Prerequisite: ENG 104 and ENG 108 or ENG 112.

SED 203 Participation in Secondary Teaching I (1) i, ii. Laboratory course taken concurrently with 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, students, and the school. Taken the same semester and time as SED 202. Prerequisite: Approved admission to the Teacher Education Program.

SED 303 Experience in Secondary Teaching II (3) i, ii. Continuation of the off-campus experience in a cooperating school as a teacher associate. To be taken concurrently with SED 304. Prerequisite: SED 203, and approved admission to the Teacher Education Program.

SED 304 Psychology in Secondary Teaching (4) i, ii. Studies psychological principles as applied to educational settings. To be taken concurrently with SED 303. Prerequisite: PSY 101, SED 203.

SED 311 Secondary Reading Techniques (2) i, ii. Techniques of teaching upper-level reading. Prerequisite: ENG 104, 108 or 112.

SED 312 Laboratory in Secondary Reading Techniques (1) i, ii. The student will be required to write a prescription for the student(s) to be worked with and report weekly to the instructor. The student will be required to work in the Learning Skills Laboratory as a tutor two hours per week.

SED 331 Instructional Media and Technology (2) i. Provides an understanding of why and how instructional materials improve the teaching/learning process, how to locally prepare instructional materials, and how to operate computers and other instructional equipment normally found in schools. Two hours lecture, one hour lab. Lab fee required. Prerequisite: EED 203 or SED 203.

SED 404 Seminar in Secondary Education and Human Relations (3) i, ii. Study of philosophical, ethical, and legal problems related to secondary education instructional strategies, including classroom and laboratory experiences; considers 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. 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) iii. 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 a bachelor's degree.

SED 450 Independent Study (credit hours open) i, ii. Research-oriented involvement intended to extend the competencies of the student in a particular area of education. Prerequisite: Consent of department chairperson.

SED 490 Applied Education Practices (1-9) (on demand). Workshops in selected areas according to interest.

Department of Engineering Technology

Dr. V. Varma, *Chairperson*

The Department of Engineering Technology offers two- and four-year degree programs in Engineering Technology with concentrations in either Construction or Electronics. The Department also offers a two-year engineering transfer program and a one-year architecture transfer program in cooperation with various area universities.

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.

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 employed in applications engineering positions.

Construction Engineering Technology/ Accreditation Status

The two-year degree program in Construction Engineering Technology prepares individuals to become entry-level construction inspectors, job estimators, testing lab technicians, expeditors, surveyors and for positions related to construction cost accounting and quality control. The four-year degree program prepares individuals as entry-level field construction coordinators, estimators, job schedulers, construction management trainees, and for positions related to construction document control, purchasing, equipment superintendent (renting) and quality assurance/quality control. The B.S. degree program in Construction Engineering Technology is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering & Technology (ABET).

Electronics Engineering Technology/ Accreditation Status

Career opportunities for two-year associate degree graduates of Electronics Engineering Technology include entry-level positions with computer maintenance/repair companies, design/testing, and electronics instrumentation companies, telephone companies, and other companies that are users of electronic machinery such as automated control (micro-processor/microcomputer) systems. Four-year degree graduates also qualify for jobs related to operation control, testing, trouble shooting, supervision and management, and for entry-level positions in marketing, technical sales and field services including installation and commissioning of equipment in plant or on site. The B.S. degree program in Electronics Engineering Technology is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering & Technology (ABET).

Exit Requirements for Department Majors

All students upon completion of their 2-year or 4-year degree programs will be required to take the departmental exit examination.

Engineering Transfer Program

Engineering has been defined as the profession in which a knowledge of the mathematical and natural sciences gained by study, experiences, and practice is applied 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.

The exact program followed will depend on the specialized area (civil, chemical, mechanical, electrical, etc.) and the engineering school to which the student plans to transfer. Also, many students are not prepared for calculus their first semester and special programs must be arranged. Therefore, an advisor in the Department of Engineering Technology will set up a suitable program for each pre-engineering student.

Architecture Transfer Program

The architecture transfer program is closely coordinated with the College of Architecture and Design, Kansas State University, Manhattan, Kansas. An advisor in the Department of Engineering Technology will set up a suitable program for each pre-architecture student.

Construction Management Minor

By completing a 24-hour course sequence in construction, the students in the Department of Business and Economics can obtain a construction management minor. Any student who is interested in this minor is advised to contact the Chairperson of the Department of Engineering Technology. Specific requirements are as follows: EGT 202, 205, 350, CET 256, 354, 360, 470, 480, MAT 119.

Computer Technology Minor

By completing a 22-hour sequence in computer technology related courses, the students with a major in Computer Science or Computer Information Systems in the Department of Computer Science, Mathematics, and Physics can obtain a computer technology minor. Any student who is interested in this minor is advised to contact the Chairperson of the Department of Engineering Technology. Specific requirements are as follows: EGT 100, 101, EET 202, 203, 212, 213, 302, 303, 382, 402, 403.

Bachelor of Science with a Major in Engineering Technology Degree Requirements

Specific requirements are as follows for the Bachelor of Science degree with the major listed.

Construction Engineering Technology

EGT 110, 202, 205, 260, 300, 350, 356; CET 105, 256, 260, 305, 308, 354, 358, 360, 408, 458, 470, 480; MAT 116, 119, 147, 157; CSC 188; PHY 110; ESC 111; CHE 101.

Electronics Engineering Technology

EGT 100, 101, 200, 201, 205, 260, 350; EET 202, 203, 212, 213, 302, 303, 312, 313, 342, 372, 373, 374, 375, 402, 403, 412, 413, 442, 472, 473, 482, 484; MAT 116, 119, 147, 157; CSC 188; PHY 110, 111; CHE 101.

Associate of Science Degree Requirements

Specific requirements are as follows for the Associate of Science degree with the major listed.

Construction Engineering Technology

EGT 110, 202, 205, 215, 260, 350; CET 105, 252, 256, 260, 265, 354; MAT 116, 119; CSC 110; ESC 111; LAT 130.

Electronics Engineering Technology

EGT 100, 101, 110, 200, 201, 205; EET 100, 202, 203, 212, 213, 302, 303, 312, 313, 342, 372, 373, 382; MAT 116, 119; PHY 110.

Engineering Technology Courses

All students shall be required to take lecture and lab components of each course concurrently. The lab component of a course cannot be taken independently unless the student has received previous credit for the lecture. Should a student elect to drop the lecture, the student must drop the associated lab as well.

EGT 100 Electrical Circuits I (3) i, ii. Studies fundamentals of electricity; principles of electrical components used in direct-current circuits, including conductors, insulators, resistors, capacitors, inductors, voltage, and current sources, and switches; and solution of direct current networks by various methods including Thevenin's theorem, Norton's theorem, and the superposition theorem. Three hours lecture. Prerequisite: Credit or concurrent enrollment in MAT 095 & EGT 101.

EGT 101 Electrical Circuits I Lab (1) i, ii. Laboratory experiences with direct-current circuits, including prototyping circuits from schematic diagrams, measuring voltage and current, determining power and energy, and solution of two- and three-mesh circuits by various techniques. Three hours. Prerequisite: credit or concurrent enrollment in EGT 100.

EGT 110 Engineering Graphics (2) i, ii. Introduction to the fundamentals of technical communication through graphics; includes technical sketching, standard projection methods, sections, auxiliary views, lettering, basic descriptive geometry, and conventional practices; uses current engineering and other technical problems to aid in development of graphic problem-solving skills. Four hours lab.

EGT 200 Electrical Circuits II (3) ii. Applications of circuit analysis including transients and AC circuits; resistive, capacitive, and inductive impedances; solutions of AC networks; transformers and resonance. Three hours lecture. Prerequisite: EGT 100, EGT 101, EGT 201, 212 and credit or concurrent enrollment in MAT 116 and MAT 119.

EGT 201 Electrical Circuits II Lab (1) ii. Laboratory experiences with alternating-current circuits, including waveform analysis, reactance, impedance, complex numbers, and solution of two- and three-mesh circuits by various techniques. Three hours lab. Prerequisite: credit or concurrent enrollment in EGT 200.

EGT 202 Surveying I (4) i. Introduction to the basic principles of plane surveying with applications to engineering and construction problems; uses laboratory periods for in-the-field applications of introductory surveying techniques. Three hours lecture, three hours lab. Prerequisite: MAT 119 and concurrent enrollment in MAT 116.

EGT 205 Computer-Aided Drafting I (3) i, ii. A course designed to teach the students how a computer-aided drafting system works to create computer-generated drawings. Fundamentals of architectural graphics, and structural detailing with emphasis on aesthetic, environmental, and structural harmony are stressed in developing drafting techniques, including proper selection and graphic representation of wood, steel, and concrete structures. Prerequisite: EGT 110.

EGT 215 Computer-Aided Drafting II (3) ii. Advanced applications in Computer Aided drafting and design, including three dimensional modeling and design and development of libraries of standard drafting symbols. Students expand their drawing capabilities through dimensioning in model space and paper space by creating multi-detail working drawings. Prerequisite: EGT 205.

EGT 260 Statics (3) i. Fundamentals of statics; static equilibrium; topics of study include elements of statics in two and three dimensions; laws of equilibrium applied to structures and machines. Three hours lecture. Prerequisite: MAT 119 or equivalent, concurrent enrollment in MAT 147, and PHY 110.

EGT 300 Dynamics (3) ii. Motion of a particle; kinetics of rigid bodies; work and energy; impulse and momentum; impact. Three hours lecture. Prerequisite: EGT 260.

EGT 340 Thermodynamics (3) ii (on demand). Fluid properties, work and heat, first law, second law, entropy, applications to vapor, and ideal gas processes. Three hours lecture. Prerequisite: PHY 210.

EGT 350 Technical Report Writing (2) ii. Studies various forms of reports; includes practical projects in preparing reports of various lengths and degrees of complexity and oral presentation of report material; emphasizes clear communication of technical ideas. Two hours lectures. Prerequisite: ENG 104.

EGT 356 Fluids and Hydraulics (3) ii. Introduction to fluid mechanics including fluid statics and elementary fluid dynamics; includes energy equations of steady flow, steady flow of incompressible fluids in pipes, and open channel flow. Three hours lecture. Prerequisite: MAT 157, PHY 110, EGT 300.

EGT 490 Technological Practices (1-3) iii. Intended for the advanced student with a job which reinforces and extends knowledge and skills. Approval by the department chairperson is required at least two weeks before the end of the previous term.

Construction Engineering Technology Courses

CET 105 Methods & Materials of Construction (3) i. Introductory study of materials used in the construction industry. Construction methods and techniques including procedures of inspection are discussed. Three hours lecture.

CET 252 Advanced Surveying (3) ii. Intermediate and advanced surveying techniques and procedures with applications to engineering and construction problems; includes mapping, hydrography, and photogrammetry; uses laboratory periods for in-the-field application of techniques. Two hours lecture, three hours lab. Prerequisite: EGT 202 and concurrent enrollment in EGT 205.

CET 256 Bituminous, Concrete, and Soils (3) ii. Studies 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: CET 105, MAT 095.

CET 260 Mechanics of Materials (4) ii. Axial, torsional, bending, and combined stress and strain analysis; mechanical properties and applications for static, fatigue, creep, and impact conditions; emphasizes beam stresses and deflections, columns, and riveted and welded connections. Three hours lecture, three hours lab. Prerequisite: EGT 260, MAT 147.

CET 265 Subdivision Planning & Layout (2) ii. Platting of boundaries, topographic layout, planning and layout for streets, sewers and water lines. Building site surveys. Three hours lab. Prerequisite: EGT 202.

EET 402 Microcomputer Systems (3) i. Interfacing to digital and analog devices. Emphasizes microcomputer structure, and programming: memory, address decoders, input-output, internal register, and the following instructions: arithmetic, logic, load, branch, rotate, sub-routines, stack, push & pop, and interrupt with Z-80. Three hours lecture. Prerequisite: EET 372, EET 373, and credit or concurrent enrollment in EET 403.

EET 403 Microcomputer Systems Lab (1) i. Laboratory experiences with Z-80. Emphasis will be on programming arithmetic, logic, branch, rotate and sub-routines. Three hours lab. Prerequisite: Credit or concurrent enrollment in EET 402.

EET 412 Operational Amplifiers (3) i. To study the applications of linear integrated circuits and to mathematically analyze these circuits. Applications of operational amplifiers will be stressed. Emphasis will be on solving problems and analyzing circuit operation. Three hours lecture. Prerequisite: EET 312, EET 313, EET 372, EET 373, MAT 147, and credit or concurrent enrollment in EET 413.

EET 413 Operational Amplifiers Lab (3) i. Laboratory experiences with integrated circuits. Emphasis will be on operational amplifiers (op-amps). Three hours lab. Prerequisite: Credit or concurrent enrollment in EET 412, or consent of instructor.

EET 422 Electrical Power Technology (3) (on demand). Studies the principles and applications of various types of DC and AC motors and generators, principles of AC power generation and distribution systems, and methods of power control using thyristor devices. Three hours lecture. Prerequisite: EGT 200, EGT 201; EET 312, EET 313 and credit or concurrent enrollment in EET 423.

EET 423 Electrical Power Technology Lab (1) (on demand). Laboratory experiences with direct-current motors/generators, alternating-current motors/generators, transformers, and three-phase power relationships. Three hours. Prerequisite: Credit or concurrent enrollment in EET 422.

EET 424 Technological Projects (1-3) ii, iii. Intended for the advanced student whose project would enrich the educational experience. Approval by the Department Chairperson is required at least two weeks before the end of the previous term.

EET 442 Advanced Communications Systems (2) ii. Principles of digital communication systems, transmission lines, antennas, wave propagation, microwave, and fiber optics. Two hours lecture. Prerequisite: EET 342.

EET 472 Control Systems II (3) ii. The application of electronic control circuits to industrial needs; with programmable logic control, relay type functions, jump, sub-routines, shift register, timing functions, on-delay, off-delay and ladder diagram logic. Three hours lecture. Prerequisite: EET 412, EET 413, MAT 157 and credit or concurrent enrollment in EET 473.

EET 473 Control Systems II Lab (1) ii. Laboratory experiences with programmable controllers (PLC), using input and output devices. Emphasis will be on programming with PLC. Three hours lab. Prerequisite: Credit or concurrent enrollment in EET 472.

EET 482 Integrated System Design I (2) i. Covers the principles and practices of electronic system design, including objectives, system specifications, and component specifications. Two hours lecture. Prerequisite: EET 402, 403, 412, 413.

EET 484 Integrated System Design II (2) ii. With instructor's approval, the student selects an electronic system or subsystem to design and builds a functional prototype. Requires a written notebook which supports the project, demonstrating research and the ability to document sources. Lab may also require construction of small projects. Four hours lab, including discussion periods. Prerequisite: EET 402, 403, 412, 413, and 482.

Department of Health, Physical Education, and Recreation

Dr. K. Ernce, *Chairperson*

Whether programming intramural competition, offering a planned sequence of exercises and sports activities to help students develop strong active bodies, or working with student 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.

Students may satisfy general education requirements in category five by taking PED 101, Concepts of Physical Activity, and one activity course. The concepts course is designed to acquaint students with basic knowledge, understanding, and values, and should assist the student in the selection of appropriate activity courses.

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 the general education activity requirement.

The department offers a Bachelor of Science Degree with a major in Physical Education. Two options are available under this degree program, Health and Exercise Science and Physical Education General. An Exercise Science option provides career opportunity areas in the fields of Private Fitness Specialists, Corporate Wellness Programming, Health Clubs, Spas, and Hospital Based Cardiac and Pulmonary rehabilitation. The General Physical Education option provides career opportunities in such fields as sports specialists in correctional institutions, sports specialists in the Armed Services, sports journalism, management of sports facilities, sporting goods marketing and/or sales, etc. The most common career option in this area is for the student to earn their educational certificate in order to teach and coach. MWSC Coaching Minor courses are offered by this department for any major in or outside the field of education who desires to coach. Health Certification courses are also available through the Department of HPER.

The department offers a Bachelor of Science degree with a major in Leisure Management with career opportunity areas that include Community/Youth Agencies, Outdoor Recreation, Therapeutic Recreation, Commercial/Private Recreation, Sports Marketing and Sports Management. A minor in Leisure Management is also available through the Department.

The Department also has a supplemental preparation requirement prior to graduation. The department believes that all instruction does not take place in the classroom, and that supplemental opportunities are a valuable part of a well-rounded education. Contact your advisor to get the specific requirements for your degree.

Bachelor of Science in Physical Education

Students majoring in physical education must have a total of 57 credits with a C or better in all PED course work. All physical education majors must pass a swimming proficiency test or show evidence of successfully passing a swimming course prior to being admitted to student teaching. The test consists of the following: 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. If a person has a physical handicap, he or she may apply to the department chairperson for waiver for this requirement. Majors are encouraged to take all activity courses possible.

Health and Exercise Science Option

Students are required to take the 29 credit core requirements and an additional 29 credits in the Health and Exercise Science Option for a total of 58 credits with C or better in all PED and LMA courses in the major. Students with an option in Exercise Science are preparing for private, industrial and commercial fields as exercise specialists. Students must have current CPR Certification at graduation. Students must have a 20 ACT score on record. All Health and Exercise Science students must pass a swimming proficiency course prior to LMA 430.

Physical Education General Option

Students are required to take the 29 credit core requirements and an additional 28 credits in Physical Education General course work for a total of 57 hours with a C or better in all PED and LMA courses in the major. Students not wishing to teach are encouraged to select a minor in their related discipline to maximize their career opportunities upon graduation. Suggested areas include Criminal Justice, Social Work, Military Science, Journalism, or Business.

Core Requirements

			<i>Credits</i>
PED	191	Foundations of PE	2
PED	201	First Aid	2
PED	374	Psychology of Sport	2
PED	393	Measurement in PE	3
BIO	240	Anatomy and Physiology I	5
PED	192	Personal and Community Health	3
PED	303	Kinesiology	3
PED	304	Physiology of Exercise	3
PED	385	Athletic Training	2
PED	402	Issues & Materials in PE	2
PED	480	Practicum in PE	OR
PED	481	Lifetime Sports Academy	2
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PE General

PED	243	Methods and Techniques of Adventure Activities	2
PED	244	Methods and Techniques of Team Sports	2
PED	245	Methods and Techniques of Individual & Dual Sports	2
PED	246	Methods and Techniques of Dance & Gymnastics	2
PED	301	Health Teaching in the Schools	2
PED	310	Principles & Administration of Coaching	2
PED	380	Rhythms & Creative Movement for Elementary Schools	2
PED	382	Elementary School Physical Education	3
PED	384	Child Growth and Development	2
PED	383	Adapted PE	OR
PED	390	Perceptual Motor Development	2
3 courses from PED 311, 312, 313, 314, 315, 316, - all 2 hrs.			6
1 course from PED 183, 184, 185, 186, - all 1 hr.			1
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Health and Exercise Science

PED	401	Graded Exercise Testing	3
PED	451	Research in Health and Exercise Science	3
BIO	252	Basic Nutrition	3
LMA	365	Introduction to Special Populations	3
LMA	430	Recreation: Field Exp. III	9
ALH	106	Medical Terminology	2
PSY	220	Health Psychology/Stress Management	3
CSC	100	Computer Literacy	3
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Teacher Education in Physical Education

Students interested in coaching or teaching physical education on the elementary or secondary level are required to complete the 29 core credits in physical education plus the 28 credits in physical education general option and additionally complete the professional education sequence of 26 credits required for teacher certification. These courses include:

			<i>Credits</i>
SED	202	Intro. to Secondary Education	2
SED	203	Participation in Sec. Teaching I	1
SED	303	Experience in Sec. Teaching II	3
SED	304	Psychology in Secondary Teaching	4
SED	311	Secondary Teaching Techniques	2
SED	404	Seminar in Sec. Ed.: Human Relations	3
SED	407	Psych. & Ed. of the Excep. Student	2
SED	409	Student Teaching III	9
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The semester prior to student teaching, all physical education majors must appear before a committee composed of staff members from the physical education and education departments. The student must be approved by this committee before being allowed to sign up for SED 409, Student Teaching III. Prior to being approved, the student must satisfactorily complete ten experiences of supplemental preparation as outlined by the Department of Health, Physical Education, and Recreation and approved by the Coordinator.

Bachelor of Science in Leisure Management

Courses for this major must total 61 credits, including the 41 core credits and additional 20 credits of restricted electives with a C or better in all LMA classes that must be approved by your advisor based on the individual's career opportunity area of interest. Students who want to be certified in Therapeutic Recreation will additionally need BIO 240, LMA 326, 366, and 367 in order to qualify for National Therapeutic Recreation Certification. Students are encouraged to pick up a designated minor in an appropriate field that would make them more marketable in the job field. Examples would be business, social work, psychology, agriculture, natural sciences or journalism. Students with a Leisure Management Major must submit an application to their advisor prior to enrolling in LMA 430. Approval of this application is dependent upon successful progress toward the degree, a minimum cumulative G.P.A. of 2.2, and retaking the ACT, if a score of 18 is not on record. Students with a leisure management emphasis must fulfill 50 clock hours of approved supplemental preparation prior to enrolling in LMA 430. All Leisure Management Majors must pass a swimming proficiency test or show evidence of successfully passing an American Red Cross swimming course prior to LMA 430.

LMA	220	Introduction to Recreation	3
LMA	230	Recreation: Field Experience I	2
LMA	300	Philosophy and Leadership in Leisure Management	3
LMA	322	Social Recreation	2
LMA	323	Program Planning in Recreation	3
LMA	325	Recreation Law for the Practitioner	2
LMA	330	Recreation: Field Experience II	3
LMA	360	Commercial Recreation	3
LMA	365	Intro to Special Populations	3
LMA	420	Seminar in Recreation	1
LMA	424	Organ. & Admin. of Leisure Agencies	3
LMA	430	Recreation: Field Experience III	9
PED	201	First Aid	2
PED	395	Intramural Management	2
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Minor in Leisure Management

For a Leisure Management minor, the student must successfully complete 20 credits.

			<i>Credits</i>
LMA	220	Introduction to Recreation	3
LMA	230	Recreation: Field Experience I	2
LMA	300	Philosophy and Leadership in Leisure Management	3
LMA	322	Social Recreation	2
LMA	323	Program Planning in Recreation	3
LMA	326	Rec. Arts, Crafts, & Music	2
LMA	424	Organ. & Admin. of Leisure Agencies	3
PED	243	Meth. & Tech. of Adv. Activities	2
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Minor in Athletic Coaching

Majors in or outside the field of education may also receive a minor in athletic coaching. The following courses make up the 21-credit requirement:

6 credits from PED 311, 312, 313, 314, 315, and 316.

PED	201	First Aid	2
PED	244	Methods and Techniques of Team Sports	2
PED	245	Methods and Techniques of Individual & Dual Sports	2
PED	304	Physiology of Exercise	3
PED	310	Principles & Administration of Coaching	2
PED	311	Coaching & Officiating of Football	2
PED	312	Coaching & Officiating of Basketball	2
PED	313	Coaching & Officiating of Baseball & Softball	2
PED	314	Coaching & Officiating in Track & Field	2
PED	315	Coaching & Officiating of Volleyball	2
PED	316	Coaching & Officiating of Wrestling	2
PED	374	Psychology of Sport	2
PED	385	Athletic Training	2
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Minor in Gerontology/Aging

MWSC offers an interdisciplinary minor on Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work.

Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)

A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required for all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit his/her schedule. Contact the department chair, Coordinator of the Minor in the Department of Social Sciences, or Academic Affairs Office for more information.

Certification in Health Education

Teachers holding valid elementary or secondary teaching certificates may be granted additional certification in health upon successful completion of:

			<i>Credits</i>
CHE	101	Introductory Chemistry	5
BIO	240	Anatomy and Physiology I	5
BIO	252	Basic Nutrition	3
PED	192	Personal and Community Health	3
PSY	210	Mental Hygiene	3
PED	201	First Aid	2
PED	300	Elementary School Health Ed.	2
PED	301	Health Teaching in the Schools	2
BIO	260	Human Sexuality	3
PED	384	Child Growth & Development	2
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Teachers certified to teach general home economics, vocational consumer homemaking education, biology, or physical education may be certified to teach health in grades K-9 with the completion of:

BIO	240	Anatomy and Physiology	5
PED	201	First Aid	2
PED	301	Health Teaching in the Schools	2
PSY	210	Mental Hygiene	3
PED	384	Child Growth & Development	2
PED	300	Elementary School Health Ed.	2
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Facility and Special Fees

A facility fee of \$4 is required for all courses in the department. Special fees are charged for some courses which require special equipment and/or facilities.

Physical Education Theory Courses

PED 101 Concepts of Physical Activity (3) i, ii, iii. Develops knowledge and skill in obtaining optimal health fitness through nutrition, stress management, cardiorespiratory endurance, recognition of risk factors for heart disease, and musculoskeletal development. Three hours lecture.

PED 191 Foundations of Physical Education (2) i. Historic and philosophic analysis of physical education emphasizing physical education as an academic discipline, professional opportunities, and associated fields. Recommended for freshmen.

PED 192 Personal and Community Health (3) i. Personal health concerns and family and community health responsibilities. Prerequisite: PED 101.

PED 201 First Aid (2) i, ii, iii. Presents first aid and adult cardiopulmonary resuscitation knowledge and skills a person needs to act as the first link in the emergency medical services (EMS) system. American Red Cross First Aid, Responding to Emergencies and Adult CPR Certification included. One hour lecture, two hours lab.

PED 243 Methods and Techniques of Adventure Activities (2) ii. Introduction to basic knowledge and skills of popular adventure activities, such as shooting sports, angling, backpacking, orienteering, rock climbing, canoeing, and wilderness living. Emphasizes attitudes, skills, environmental awareness, safety, teaching methodology, and principles of group leadership as they relate to adventure activities. Field trips may be required. Four hours lab.

PED 244 Methods and Techniques of Team Sports (2) i. Presents teaching methodology and develops knowledge and skills in the team sports of basketball, flag football, soccer, and volleyball. Four hours lab.

PED 245 Methods and Techniques of Individual and Dual Sports (2) i. Presents teaching methodology and develops knowledge and skills in the individual and dual sports of bowling, badminton, tennis, and golf. Four hours lab.

PED 246 Methods and Techniques of Dance and Gymnastics (2) ii. Presents teaching methodology and develops knowledge and skills in social, folk, and square dance, stunts and tumbling, and apparatus gymnastics. Four hours lab.

PED 300 Elementary School Health Education (2) i. Emphasizes content, methods, and materials at the elementary grade levels. Designed for the elementary school classroom teacher. Prerequisite: PED 101

PED 301 Health Teaching in the Schools (2) ii. Emphasizes content, methods, and materials in health education at all levels (K through 12). Prerequisite: PED 192.

PED 303 Kinesiology (3) ii. Analyzes movement from the study of anatomical structures and mechanical principles of the human body; applicable to elementary, secondary, and adult populations. Two hours lecture, two hours lab. Prerequisite: BIO 240.

PED 304 Physiology of Exercise (3) i. Basic physiology applied to physical education and the training of athletes; applicable to elementary, secondary, and adult populations. Two hours lecture, two hours lab. Prerequisite: BIO 240.

PED 310 Principles and Administration of Coaching (2) ii. Provides insight into the coaching profession; includes developing a professional approach to coaching ethics, psychology of athletics, staff selection, public relations, administration of duties (scheduling, eligibility, reports, purchasing, care of facilities), and appreciation for non-technical aspects of the total job. Prerequisite: Junior classification.

PED 311 Coaching and Officiating of Football (2) i (odd-numbered years). Theory, fundamentals, and officiating of football; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 312 Coaching and Officiating of Basketball (2) i. Theory, fundamentals, and officiating of basketball; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 313 Coaching and Officiating of Baseball and Softball (2) ii (odd-numbered years). Theory, fundamentals, and officiating of baseball and softball; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 314 Coaching and Officiating in Track and Field (2) ii (even-numbered years). Theory, fundamentals, and officiating of track and field; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 315 Coaching and Officiating of Volleyball (2) i. Theory, fundamentals, and officiating of volleyball; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 316 Coaching and Officiating of Wrestling (2) ii (even-numbered years). Theory, fundamentals, and officiating in wrestling; includes team selection, organization, and strategies from the coaching and officiating standpoints. Officiating in Intramurals may be required. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 374 Psychology of Sport (2) ii. Emphasizes the psychology and sociology of the sports participant from the standpoint of participant's behavior toward other individuals and groups. Prerequisite: Junior classification.

PED 380 Rhythms and Creative Movement for Elementary School (2) ii. Designed to teach elementary teachers how to approach the use of rhythms as a means for developing neuromuscular growth and body space awareness; uses a variety of musical styles and rhythmic devices to develop a knowledge in movement exploration including body awareness, space utilization, time, and energy change. One hour lecture, two hours lab. Prerequisite: Sophomore classification.

PED 381 Outdoor Education (2) (on demand). A methodology course with an emphasis on establishing learning experiences in natural environments through varied disciplines of study.

PED 382 Elementary School Physical Education (3) i, iii. Fundamental skills, sports, and games for the elementary school physical education program. Two hours lecture, two hours lab. Prerequisite: Sophomore classification.

PED 383 Adapted Physical Education (2) ii. Theory and methods of programming activities for handicapped students; recognition of, prevention of, and practical experience with structural deviations from normal body mechanics.

PED 384 Child Growth and Development (2) i. The study of humans from conception to maturation dealing with the pattern of growth involved in the physical and mental process.

PED 385 Athletic Training (2) ii. Prevention and care of common athletic injuries, protective equipment, and training methods. One hour lecture, two hour lab. Prerequisite: BIO 240.

PED 390 Perceptual Motor Development (2) ii. The study of experimental and experiential research concerning perceptual motor development. How the educational process is affected by deprivation and necessary modifications in the child's ability to move. Prerequisite: PED 384 or consent of instructor.

PED 393 Measurement in Physical Education (3) i. Methods in evaluation of the product and process; special emphasis on physical fitness, motor ability, posture, and specific sports skills; applicable to elementary, secondary, and adult populations.

PED 395 Intramural Management (2) i. Organization and administration of intramural and extramural activities. Assistance in the intramural program is required. One hour lecture, two hours lab.

PED 401 Graded Exercise Testing (3) ii. Examines the principles of exercise testing, the methods of conducting a graded exercise test, collection and calculation of test data in a sequential manner and interpretation of information so obtained. Offers a basic understanding of the normal physiological adaptations to chronic exercise and the electrophysiology of electrocardiography. Prerequisite: PED 304.

PED 402 Issues and Materials in Physical Education (2) ii. Emphasizes major issues and materials as needed for the teaching of physical education in the secondary schools and the teaching of physical fitness concepts in business and industry. Two hours lecture. Prerequisite: PED 101, 303 and 304.

PED 450 Independent Study in Physical Education (1-5) i, ii, iii. Investigation of selected problems or topics on an individual conference basis to extend the competencies of the student in a particular area of HPER. Prerequisite: Consent of department chairperson.

PED 451 Research in Health and Exercise Science (3) i. Original research in areas related to Health or Exercise Science. Students will be guided in the development of research ideas and problem statements, literature reviews, testing methodology, data collection, and interpretation of results. Prerequisites: Junior or Senior standing; PED 303, PED 304, and PED 393.

PED 480 Practicum in Physical Education (1-2) i, ii, iii. Individualized in-depth study of a subject in which the student is particularly interested. Prerequisite: Junior or Senior classification and consent of department chairperson. Students cannot repeat the same sports camp for credit.

PED 481 Children's Lifetime Sports Academy Practicum (2) iii. Practical teaching experience of children aged eight to fourteen in lifetime sports and adventure activities. Can be repeated for credit.

PED 485 Athletic Training II (2) i (odd-numbered years). Methods of athletic injury mechanisms and evaluative techniques of athletic injuries. Knowledge and understanding of modalities, therapeutic techniques, and rehabilitation programs of athletic injuries. One hour lecture, two hours lab. Prerequisite: PED 385.

Leisure Management Courses

LMA 220 Introduction to Recreation (3) i, ii. History and foundations of organized recreation including objectives, responsibilities, scope, and economic and social aspects; tours of specific recreation agencies. Two hours lecture, two hours lab.

LMA 230 Recreation: Field Experience I (2) i, ii. Practical, exploratory view of three recreation agencies from an on-the-job perspective. One hour lecture, five hours lab. Prerequisite: LMA 220 with a grade of C or better.

LMA 300 Philosophy and Leadership in Leisure Management (3) ii. Analyzes fundamental philosophical concepts and the influence on personal leadership and management techniques as they relate to working with people and leisure organizations.

LMA 322 Social Recreation (2) (on demand). Principles and techniques of administering and conducting social events; emphasizes planning, discussion, demonstration, and participation.

LMA 323 Program Planning in Recreation (3) i. Basic principles and practices in planning recreation programs in a variety of settings. Prerequisite: LMA 220, 300.

LMA 325 Recreation Law for the Practitioner (2) i. This course is designed to assist individuals in developing a "safety conscious" attitude toward leisure programming and to learn procedures that will aid them in risk management plan of the potential incidence of injuries/lawsuits.

LMA 326 Recreational Arts, Crafts, and Music (2) (on demand). Surveys various arts, crafts, 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 a leisure agency leading to a deeper conceptual view of intended professional aspirations. One hour lecture, eight hours lab. Prerequisite: LMA 230 with a C or better, cum. 2.2 GPA, 20 supplemental preparation hours or with consent of instructor.

LMA 360 Commercial Recreation (3) (on demand). Basic steps of initiating and conducting a commercial recreation enterprise; designed to offer students practical experience in starting a business. Two hours lecture, two hours lab. Prerequisite: Consent of instructor.

LMA 366 Principles and Practices of Therapeutic Recreation. (3) (on demand). Emphasis on client assessment, therapeutic methodology and evaluation. Includes techniques for monitoring and documentation of client treatment.

LMA 367 Foundations of Therapeutic Recreation (3) (on demand) . An overview of the foundational concepts of the therapeutic recreation profession.

LMA 365 Introduction to Special Populations (3) ii. Leisure needs and methods of serving various groups in a society; populations included the aged, the ill, the disabled, the disadvantaged, and those in penal institutions.

LMA 370 Fitness and Recreational Aspects of Aging (3) i (even-numbered years). Designed to address the importance and value of fitness in the older adult and the role recreation plays in the leisure life-style found after retirement. (Elective course for the gerontology minor.)

LMA 420 Seminar in Recreation (1) i. Practical preparation for the profession including job-finding skills, interview techniques, values of recreation association, and visits from field professionals. Prerequisite: LMA 220, 300.

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. Prerequisite: LMA 220, 300, 323.

LMA 430 Recreation: Field Experience III (9) i, ii, iii. Full-time summer internship with a leisure agency to develop and utilize skills learned in the classroom. Prerequisite: Completed the 41 hour core with a C or better in all courses; completed 50 supplemental preparation hours; fulfilled the application requirements with the department; and earned a minimum 2.5 GPA in the major.

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: Consent of department chairperson.

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 Activity Courses

No activity course can be repeated for credit except 110, 158, and 160. Elective physical education activities will be offered during semesters when staff and facilities are available.

All sports activities are designed for the development of techniques, knowledge, appreciation, and skills used during the individual'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. This class may be repeated for credit with permission of the Coordinator of Adaptive Activities.

PED 112 Beginning Racquetball (1). A beginner's course of instruction in the basic skills of racquetball, including the techniques of singles and doubles play. Student must furnish some equipment.

PED 114 Beginning Tumbling and Trampoline (1).

PED 115 Beginning Apparatus Gymnastics (1).

PED 116 Beginning Bait and Fly Casting (1). Introduction to sport fishing with emphasis on casting skills, methods of fishing, fish habitat, conservation practices, and lure making. Field trip may be required.

PED 117 Beginning Riflery and Trap Shooting (1). Instruction in recreational shooting with emphasis on firearms safety; rifle and shotgun trap marksmanship, emphasizing range practice; methods and techniques of reloading ammunition and cleaning firearms. Students must purchase own ammunition.

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). An exciting new recreational sport which combines use of map and compass with physical activity; combines several styles of orienteering with practice on actual courses.

PED 123 Beginning Judo (1). Student must furnish gi.

PED 124 Beginning Survival and Primitive Living (1). Instruction in preparing for environmental emergencies with emphasis on the psychological aspect of survival situations and establishment of priorities for sustaining life in an environmental emergency. An overnight experience is required.

PED 125 Beginning Handball (1). Students must furnish own glove.

PED 126 Beginning Squash (1).

PED 127 Beginning Archery (1). Introduction to target and field archery with emphasis on shooting technique and various types of archery games and competition. Students must furnish a matched set of six arrows.

PED 128 Beginning Backpacking (1). Instruction in backpacking with emphasis on equipment orientation, personal conduct within the natural environment, clothing and shelter, preservation of wilderness area integrity, safety, foods, and cooking. Course includes on-the-trail instruction and practicum. All equipment furnished by the department.

PED 129 Beginning Mountaineering (1). Introduction to mountaineering with concentrated instruction in rock climbing; includes equipment orientation, rope handling, belaying, rappelling, traverses, emergency first aid and rescue, mountain weather, alpine living, and clothing principles; particular stress on safety and ethics. All equipment furnished by the department.

PED 130 Beginning Swimming (1). Basic skills in swimming. Swim suit required. Non-swimmers only.

PED 131 Lifeguard Training (1) (on demand). Provides minimum skills training for a person to qualify to serve as a lifeguard. Prerequisite: American Red Cross Standard First Aid certification.

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 135 Skin and Scuba Diving (1). Techniques and safety for skin and scuba diving. Swim suit and 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: Red Cross Lifeguard Training or American Red Cross Emergency Water Safety Certificate.

PED 138 Beginning Sailing and Canoeing (1). Practical instruction in sailing and canoeing with emphasis on safety and techniques. On-the-water experiences are integral with instruction. Students must be able to swim.

PED 139 Beginning Skiing (1). Development of basic skills in downhill (Alpine) and/or cross country skiing. Special fee required.

PED 140 Beginning Ice Skating (1). Special fee required.

PED 141 Beginning Karate (1). Students must furnish gi.

PED 142 Hap Ki Do (1) (on demand). A martial art activity with emphasis on self-defense. Students must furnish gi.

PED 143 Self Defense (1). Designed to help minimize the chances of a person becoming a victim of a criminal attack.

PED 144 Beginning Recreational Games (1). Shuffleboard, table tennis, horseshoes, croquet, and others.

PED 145 Aerobic Dance (1). An activity course in which students' cardiovascular endurance is developed through continuous rhythmic exercise and dance set to music; fitness levels are evaluated and prescription of exercise is made based on the approach used by Dr. Kenneth Cooper.

PED 146 Beginning Social Dance (1).

PED 147 Beginning Ballet (1). Introduction to ballet with emphasis on developing style, the basics of body alignment, arm placement, footwork and expressiveness. Students must furnish ballet shoes.

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 157 Dance Choreography (1). Designed to teach principles and fundamental dance skills for use in choreography assignments relating to time, space, energy, group relationships, and performance techniques. The choreography is especially relevant to vocal music, musical theatre, and concert dance. Two hours lab. Will not satisfy general education requirement in physical education. Prerequisite: Consent of instructor.

PED 158 Intercollegiate Sports I (1). Intercollegiate athletic team members who are on the men's football, men's basketball, women's volleyball, or women's basketball teams only. This class may be taken up to four times for credit, but will not satisfy general education requirements in physical education. Prerequisite: Consent of Coach.

PED 159 Intercollegiate Sports II (1). Intercollegiate athletic team members who are on the men's baseball, men's golf, women's tennis, or women's softball teams only. This class may be taken up to four times for credit, but will not satisfy general education requirements in physical education. Prerequisite: Consent of Coach.

PED 160 Dance Participation (1) (on demand). Open to any individual interested in developing higher level skills in dance performance through participation with the Missouri Western State College Dance Company. This class may be taken up to four times for credit, but will not satisfy general education requirements in physical education. Prerequisite: Consent of Dance Company Sponsor.

PED 171 Beginning Cave Exploring (1). Will be offered when staff and facilities are available. Introduction to the sport of spelunking with an emphasis upon safety aspects and appreciation of cave ecology. Course includes caving trips. Equipment furnished by the Department.

PED 172 Intermediate Cave Exploring (1). Continuation of PED 171 which will be offered when staff and facilities are available. Involves intermediate activities in spelunking: reading cave maps, basic vertical techniques, basic rescue techniques, and discussions in cave geology. Course includes caving trips. Most equipment furnished by the department. Special fee required. Prerequisite: PED 171 or consent of instructor.

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 Fitness (1) (on demand).

PED 187 Beginning Cycling (1). Students must furnish bicycle.

PED 188 Wilderness Canoeing (1). Comprehensive course in flatwater and river canoeing; emphasizes whitewater paddling technique and personal conduct in wilderness environments; includes wilderness camping skills and expedition dynamics. Class is usually held in Minnesota, South Missouri, or Arkansas.

PED 189 Beginning Pistol and Skeet (1). Pistol and skeet marksmanship, emphasizing range practice; methods and techniques of reloading ammunition and cleaning firearms. Students must provide own ammunition.

PED 190 Adult Physical Fitness (1) i, ii. An activity course in which student's knowledge of high level wellness is developed through participation in discussion and physical activity programs. Designed as a class for returning students to be taught concurrently with the adult physical fitness class in Continuing Education.

PED 193 Special Weight Training Class for Athletes Only. Limited to members of MWSC Intercollegiate Athletic Teams only. May be taken one time only for credit. Will not satisfy general education requirements in physical education. Prerequisite: Consent of Athletic Coach.

PED 212 Intermediate Racquetball (1). Emphasizes strategy, advanced techniques, and shotmaking. Student must furnish own racquetballs. Prerequisite: PED 112 or consent of instructor.

PED 215 Intermediate Apparatus Gymnastics (1). Prerequisite: PED 115 or consent of instructor.

PED 218 Intermediate Bowling (1). Prerequisite: PED 118 or consent of instructor.

PED 219 Intermediate Golf (1). Students must furnish four new golf balls. Prerequisite: PED 119 or consent of instructor.

PED 220 Intermediate Tennis (1). Students must furnish one can of new tennis balls. Prerequisite: PED 120 or consent of instructor.

PED 223 Intermediate Judo (1). Students must furnish gi. Prerequisite: PED 123 or consent of instructor.

PED 229 Intermediate Rock Climbing (1). Continuation of PED 129. Applied instruction, on-site, in classifying climbs, belay variations, and anchors; protection placements for lead climbing; climbing team organization; aid (class 6) climbing; and protected lead experience. Prerequisite: PED 129 or exhibited competence and skills in basic rock climbing technique.

PED 235 Intermediate Skin and Scuba. Continuation of PED 135. Emphasizes skin and scuba as a leisure activity for a lifetime. Swim suit and special fee required.

PED 239 Intermediate Skiing (1). Continuation of PED 139. Emphasizes downhill and/or cross country skiing as a leisure activity for a lifetime. Special fee required. Prerequisite: PED 139 or consent of instructor.

PED 250 Intermediate Ice Skating (1). Continuation of PED 140. Emphasizes ice skating as a leisure activity for a lifetime. Special fee required.

PED 253 Intermediate Modern Dance (1). Students must furnish leotard. Prerequisite: PED 153 or consent of instructor.

PED 275 Intermediate Volleyball (1). Prerequisite: PED 175 or consent of instructor.

Department of Military Science

Captain Dennis Burket, *Chairperson*

College-graduate junior executives for the U.S. Army are provided by the Army Reserve Officers' Training Corps (ROTC) program administered by the Department of Military Science. Traditional four-year baccalaureate-degree aspirants may qualify for a commission as an officer through completion of military science courses. These courses may count as elective courses or as a supplement, amounting to 10 to 15 percent of the normal college studies. With the exception of a six-week paid summer camp, all instruction is presented on campus. Various field trips are conducted to further enrich the student's appreciation of national security in its broadest sense and to develop leadership skills.

A commission as a second lieutenant in the United States Army is granted to the individual who completes either the two-year or four-year ROTC program and obtains a baccalaureate degree from MWSC. Currently, a college graduate who is commissioned through ROTC is placed on active duty for either three months or three years, depending on his or her desires and on the needs of the service at the time of graduation. A contract guaranteeing the three-month program is available.

Four-Year ROTC Program: This program consists of 26 credit hours of military science offerings on campus: 6 credit hours from the basic ROTC program MIL 100- and 200-level courses, and 20 credit hours from the advanced ROTC program MIL 300- and 400-level courses. First semester sophomores who did not take military science during the freshman year may compress the basic program during their sophomore year by taking a 100-level and a 200-level course (for 3-credit hours total) each semester.

Two-Year ROTC Program: This program option is designed for junior and sophomore level students who were unable to enroll in ROTC during their first two academic years. The two-year program substitutes a six-week Army orientation program at Fort Knox, Kentucky, for the MIL 100- and 200-level courses. This orientation is designed for sophomores with no prior military training. Students should attend between their sophomore and junior years.

Military Science Minor: Students who complete the academic classes of the advanced ROTC program (MIL 300, 302, 310, 312, 400, 402, 410, 412: total 20 hours) are eligible for the award of a military science minor. A declaration of minor form must be completed at the time of entry into the advanced ROTC program.

Nursing students may enroll directly into the alternate advanced ROTC program with no prerequisites. Those students are eligible for the award of a military science minor after completion of the following courses: MIL 302, 312, 320, 330, 402, 420, 430; NUR 455, 460, 495: total 19 hours.

Army Commission: In addition to military science courses, students desiring to obtain an Army commission must take at least one course in each of the following fields of study: human behavior, military history, computer literacy, math reasoning, and written communication skills. Most of these requirements are satisfied by courses required as part of the college general studies program. In addition, ROTC scholarship students must complete one 3-credit hour foreign language course. All students seeking a commission must attend a six-week advanced training camp, normally the summer between the junior and senior years. Attendance at camp may be deferred until after the senior year at the discretion of the Chairperson of Military Science. The summer camp for most students is at Fort Lewis, Washington. For nursing students, camp is divided between two weeks at Fort Lewis, Washington, and a five-week clinical phase at an Army hospital.

Advanced Placement: Prior military active duty personnel, Army Reservists and National Guardsmen who have completed basic training, high school junior ROTC graduates, and nursing students are eligible for placement directly into the advanced ROTC program (last two years of military science) with the consent of the Chairperson of Military Science. Eligible students should contact the Chairperson of Military Science for permission to enter the advanced course.

Financial Assistance

U.S. Army ROTC Scholarship: Two-, three-, and four-year competitive scholarships are available each year to selected students who are enrolled or will enroll in the Army ROTC program. The scholarships provide payment of all tuition, fees, a monthly tax-free payment of \$100 for the duration of the scholarship, not to exceed ten months for each year of the scholarship and a flat-rate book allowance each semester.

Monetary Allowances: ROTC students are furnished free textbooks for military science courses. Students enrolled in the last two years of military science receive \$100 per month during the school year, not to exceed ten months per year.

Fee Waiver: A limited number of tuition/fee waiver scholarships are awarded each semester to freshman and sophomore personnel who demonstrate an earnest desire and ability to progress toward the advanced ROTC program. Interested students should see the Department Enrollment Officer for information.

Military Science Courses

MIL 100 Introduction to Military Leadership (1) i, ii. Introduction into the areas of: leadership, role of the total Army (to include the citizen soldier concept), Soviet Military Forces, Branches of the Army, the on-campus ROTC Program, U.S. Constitution, customs and traditions of the service and physical fitness. Emphasis is on the function and organization of the Army.

MIL 102 Leadership Practicum (2) i. Course examines squad and platoon offensive and defensive operations, and leadership in patrolling operations. Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Emphasis is on basic skills of the individual soldier.

MIL 105 Rappelling and Military Rifle Marksmanship (1) i, ii. Course teaches techniques and methods of rappelling, rope management, knot tying, small bore rifle marksmanship and range safety. May be substituted for physical education activity credit. Category five - Physical Education under General Studies.

MIL 112 Leadership Practicum (2) ii. Continuation of MIL 102. Examines advanced squad and platoon offensive and defensive operations with emphasis on patrolling operations. Included topics are camouflage techniques, basic first aid, and reaction to obstacles. A tactical application exercise and physical fitness conditioning are included as course requirements. Students perform in individual and small unit leadership positions.

MIL 202 Leadership Practicum (2) i. Course examines squad and platoon offensive and defensive operations and leadership procedures in patrolling operations. Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Students will perform various leadership roles and present classroom instruction.

MIL 210 Map Reading and Cross-Country Orienteering (2) i, ii. Introduction to map reading and orienteering. Prerequisite: MIL 100 and MIL 105, or the consent of Department Chairperson.

MIL 212 Leadership Practicum (2) ii. Continuation of MIL 202 to examine advanced squad and platoon offensive and defensive operations, reaction to obstacles, and leadership procedures in patrolling operations. Includes a tactical application exercise and participation in physical fitness conditioning as a course requirement. Students will perform in various leadership roles and present classroom instruction.

MIL 220 Advanced Survival Skills (2) i. Provides the student with knowledge and practical experience in field expedient first aid and selected survival subjects. Course emphasizes first aid, land navigation, shelters, traps and snares, and water procurement.

MIL 300 Leadership and Management I (3) i. Provides the student with an examination of ethics, career professionalism, attributes of leadership, and selected light infantry tactical skills. Prerequisite: 6 credits in Military Science or consent of Department Chairperson; to be taken concurrently and required for students enrolled in MIL 302.

MIL 302 Leadership Practicum (2) i. Examines squad and platoon offensive and defensive operations, the patrol leader in patrolling operations, and a tactical application exercise. Participation in physical fitness conditioning and a tactical application exercise is required. Students will perform in various leadership roles and present classroom instruction. Prerequisite: Advanced-course status, to be taken concurrently, and required for students enrolled in MIL 300.

MIL 310 Small Unit Leadership and Tactics (3) ii. Course studies principles and fundamentals of military operations, the decision-making process, planning and execution of light infantry operations, and a thorough examination of military ethics. Prerequisite: MIL 300 or consent of Department Chairperson; to be taken concurrently and required for students enrolled in MIL 312.

MIL 312 Leadership Practicum (2) ii. Familiarization with military firearms; includes assembly and disassembly; tactical communications; and the field artillery request and a tactical application exercise. Participation in physical fitness conditioning and a tactical application exercise is required. Students will perform in various leadership roles and present classroom instruction. Prerequisite: Advanced-course status, to be taken concurrently, and required for students enrolled MIL 310.

MIL 320 Introduction to U.S. Army Organizations and Equipment (1) i. Provides students with an overview of the organization and structure of the United States Army, the role and missions of the Army Nurse Corps, and an introduction to the equipment, organization and tactics of Army combat units. Prerequisite: Acceptance into an accredited four-year nursing program and consent of Department Chairperson.

MIL 330 Leadership and Small Unit Operations (1) ii. Examines the principles of war and how they relate to small unit operations, to include the role and responsibilities of the medical service officer in evaluating and treating injured, sick and wounded personnel. Prerequisite: MIL 320 or consent of Department Chairperson.

MIL 400 Leadership and Management II (3) i. Study of the principles of decision-making, the planning and conduct of unit training, and role of the military in U.S. and professional ethical standards, and the use of those standards in situations involving power, influence, and subordinate counseling. Prerequisite: MIL 310 or consent of Department Chairperson.

MIL 402 : Leadership Practicum (2) i. Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management. Participation in physical fitness conditioning and tactical application exercise is required. Students will perform in various leadership positions and present classroom instruction.

MIL 410 Army Management and Organizational Systems (3) ii. Advanced study of leadership and management; examines administration at the company level and military justice; concludes with an overview of the obligations and responsibilities of an officer. Prerequisite: MIL 400 or consent of Department Chairperson; to be taken concurrently and required for students enrolled in MIL 412.

MIL 412 Leadership Practicum (2) ii. Practical applications in problem analysis, decision making, planning and organization, delegation and control, and development of interpersonal skills required for effective management, includes a tactical application exercise. Participation in physical fitness conditioning is required. Students will perform various leadership roles and conduct classroom instruction. Prerequisite: Advanced-course status, to be taken concurrently, and required for students enrolled in MIL 410.

MIL 420 Training and Logistics Management (1) i. Familiarizes student with the components of the U.S. Army Training Management and Logistics System. In addition, examines Soviet military power and the health effects on American soldiers caused by employment of nuclear and chemical weapons. Prerequisite: MIL 330 or consent of Department Chairperson.

Minor in Gerontology/Aging

MWSC offers an interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work.

Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
 - BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
 - LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
 - NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
 - PSY 321 Adulthood and Aging (offered every spring)
 - COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
 - SWK 265 Death and Dying (offered fall semesters of odd-numbered years)
- A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required of all students.)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit in his/her schedule. Contact the Department Chair, Academic Affairs Office or Coordinator of the Minor in the Social Sciences Department for more information.

Nursing Courses

NUR 201 Concepts of Professional Nursing (3) i, ii. An introductory course open to students who have an interest in nursing. Includes discussion of the roles of baccalaureate educated nurses, the philosophy of the Department of Nursing at MWSC, introduction to the theoretical basis of professional nursing, and basic concepts of professionalism. A historical perspective of the nursing profession is also provided. Required of all majors in the basic baccalaureate program.

NUR 260 Nursing Process I - Physical & Psychosocial Assessment (3) i, ii. This course focuses on the assessment phase of the nursing process, including data-gathering and problem identification, within the conceptual framework of the Nursing Department at Missouri Western State College. Conceptual models, functional health patterns, and nursing diagnoses are related to individual and family clients in a variety of settings. Prerequisite: NUR 201 and admission to the Department of Nursing, BIO 240, PSY 319 (may be taken concurrently). Concurrent enrollment in NUR 261.

NUR 261 Nursing Process I - Practicum (1) i, ii. The student is given the opportunity for guided experiences in a variety of health care settings. The focus is on assessment and nursing diagnosis of the well client in community, extended care, or acute care settings. Current enrollment in NUR 260. Meets 3 hrs/wk.

NUR 310 Nursing Implications of Drug Administration (3) i, ii. An interdisciplinary approach to clinical pharmacology. Includes discussion, pharmacodynamics and pharmacokinetics. Principles of medication administration for all age groups are presented as well as legal and ethical considerations. Prerequisite: NUR 260, NUR 261, and BIO 241. Current enrollment in NUR 350 and NUR 351.

NUR 350 Nursing Process II (3) i, ii. Introduction to the functional health patterns with emphasis on sleep-rest, activity-exercise, nutritional metabolic, elimination, cognitive-perceptual and value-belief patterns. Nursing care to facilitate adaptation of individuals through the use of the nursing process. Prerequisite: NUR 260, 261, and BIO 241. Current enrollment in NUR 351 and 310.

NUR 351 Nursing Process II - Practicum (3) i, ii. Nine hours of clinical practice each week during which the student applies the nursing process to facilitate adaptation of individuals in acute or extended care settings. Current enrollment in NUR 350.

NUR 365 Special Needs of the Elderly (3) i (odd-numbered years). An overview of the special needs of the elderly population. Includes present concerns as well as identifying methods of improving life for the elderly in the future.

NUR 375 Nursing Ethics (3) i (odd-numbered years). Provides the student an opportunity to learn about ethical decision-making. Various ethical systems are introduced and ethical concepts and principles are explored. The course utilizes an approach combining readings and discussion of specific clinical cases in nursing practice. Prerequisite: Junior status or licensure as a health care provider or consent of instructor.

NUR 380 Concepts of Baccalaureate Degree Nursing (3) i, ii. The first course for RN students. Introduces nursing process within the conceptual framework of the Nursing Department at MWSC. Includes examination of the historical development and theoretical basis of the current practice of professional nursing. Provides for exploration of a personal philosophy of nursing and professional development. Prerequisite: Current RN licensure and permission of instructor.

NUR 382 Nursing Process (4) i, ii. An in-depth study of nursing process with an emphasis on the assessment phase. Functional health patterns, health examination, nursing diagnosis and conceptual models are related to individual and family clients in a variety of settings. Three hours of class and two hours of clinical each week. RN students only. Prerequisite: Admission into the Department of Nursing and NUR 380. May be taken concurrently with NUR 380.

NUR 385 Nursing Process: Community (3) i, ii. Utilizes the nursing process while emphasizing the health-perception-health management functional health patterns to support the adaptation of individuals and groups within the community. Identifies and explores basic concepts of community health nursing. Prerequisite: BIO 251, NUR 350 and 351 or NUR 380 and 382 and consent of the department.

NUR 390 Nursing Processes III (3) i, ii. Focuses on biopsychosocial influences on the activity-exercise functional health pattern of clients who are well, who are ill, or who are at risk. The nursing process provides the framework for facilitating adaptation of clients with dysfunction of the activity-exercise functionally health pattern. Prerequisites: NUR 350 and 351. Concurrent enrollment in NUR 391 and NUR 392/393 or NUR 420/421.

NUR 391 Nursing Processes III - Practicum (2.5) i, ii. Fifteen hours of supervised clinical practice per week of clients in an acute care, extended care, or outpatient clinical facility or in clients' homes. The student uses the framework of the nursing process to develop skill in caring for clients with dysfunction of the activity-exercise functional health pattern. Prerequisites: NUR 350 and 351. Concurrent enrollment in NUR 390 and NUR 385 and either NUR 392/393 or 420/421.

NUR 392 Nursing Process: Psychosocial Adaptation (3) i, ii. Emphasizes the functional health patterns of self-perception/self/concept, role relationship, coping-stress-tolerance and the principles of communication. The dynamics of the nursing process as the basis for the practice of mental health nursing including application/implication of psychosocial concepts and nursing's concern of the "whole person" will be stressed. Prerequisite: NUR 350 and 351. Concurrent enrollment in NUR 393 and 390/391 or 450/451.

NUR 393 Nursing Process: Psychosocial Adaptation - Practicum (2.5) i, ii. Fifteen hours of supervised clinical practice per week with a focus on the nurse patient relationship in mental health settings. Alternate clinical practicum during the semester with either NUR 391 or NUR 451. Prerequisite: NUR 350 and 351. Current enrollment in NUR 392 and/or 390/391 or 450/451.

NUR 420 Nursing Process: Developing Family (3) i, ii. Acquaints the student with the functional health patterns of sexuality-reproductive, and role-relationship. The family-centered approach will be emphasized to enable the student to understand the total needs of the family during the childbearing years. Prerequisite: NUR 390 and NUR 391. Current enrollment in NUR 421 and 450/451.

NUR 421 Nursing Process: Developing Family Practicum (2.5) i, ii. Fifteen hours of supervised clinical practice per week with clients in a clinical setting. Experiences in meeting the health and teaching needs of families is provided within hospital and community settings during prenatal, intrapartal, postpartal, and newborn phases of the childbearing cycle. Prerequisite: NUR 390 and NUR 391. Current enrollment in NUR 421 and 450/451.

Office Information Systems Courses

OIS 140 Elementary Keyboarding (3) i, ii, iii. Beginning keyboarding on microcomputers, emphasizing presentation of keyboard, skill development, and formatting of letters, tables, and reports. Three hours lecture, one and one-half hours lab.

OIS 141 Document Formatting (3) i, ii, iii. Emphasizes developing speed and accuracy, formatting business letters, tabulations, reports, and business forms. Three hours lecture, one and one-half hours lab. Prerequisite: OIS 140 or one year high school typing and 35 net words per minute.

OIS 146 SuperWrite (2) i, ii. Introductory course in which an abbreviated writing system will be presented. This course is appropriate for all persons involved in note taking, e.g., reporters, researchers, office personnel, interviewers, deposition clerks, and classroom notetakers.

OIS 147 Dictation and Transcription (3) i, ii. Continuation course for all shorthand or rapid writing systems with emphasis on development of dictation and transcription skills. Students will review the principles learned in their respective writing systems and apply their skills while making class notes, taking messages, taking minutes, making notes from readings, creating outlines, and making and using notes for research. Prerequisite: Completion of a symbol or alphabet writing system at the high school level or OIS 146 SuperWrite with at least a "C"; credit or concurrent enrollment in OIS 141 Document Formatting.

OIS 150 Word Processing/WordPerfect (2) i, ii. Includes theory and practical applications to provide students with a thorough working knowledge of one of the leading computer software packages for word processing. The student will receive hands-on experience on microcomputers to create documents. Prerequisite: OIS 141 Document Formatting with grade of C or higher.

OIS 231 Electronic Calculator (1) i, ii. Introduction to electronic calculators. One hour lecture, two hours lab.

OIS 232 Machine Transcription (2) i, ii. Teaches students to produce mailable copy from transcription equipment; includes drill on transcription skills, with emphasis on quality of production; application of punctuation, spelling, vocabulary building, letter styles, placement, proofreading, and grammar to the transcription process. Two hours lecture, one hour lab. Prerequisite: Credit or concurrent enrollment in OIS 141.

OIS 233 Database/dBASE IV (1) i. Presents procedures for creation, storage, access, updating, and maintenance of a database and procedures for inclusion of selected data into word processing documents.

OIS 234 Advanced Database/dBASE IV (1) i. An intensive, hands-on course using an interactive user interface as well as dot prompt commands and pull-down menus to understand file management concepts, database queries, forms creation, report generation, label design, and the database program structures of a comprehensive database management system. Prerequisite: OIS 233 or consent of instructor.

OIS 240 Advanced Document Production (3) i, ii, iii. Advanced document production on microcomputers. Emphasizes development of skill in using microcomputers to produce professional-looking documents with increased accuracy and speed. Three hours lecture, one and one-half hours lab. Prerequisites: OIS 141 (with grade of C or better) and OIS 150 Word Processing/WordPerfect.

OIS 252 contemporary Office Issues (1) ii. Emphasizes discussion of contemporary issues pertinent to those individuals seeking employment in today's offices. To be taken concurrently with OIS 351 Model Office.

OIS 261 Spreadsheet/Lotus 1-2-3 (1) ii. Introduces basic computer maintenance skills. Emphasis on mastery of spreadsheet concepts and application of these concepts to various office situations.

OIS 262 Advanced Spreadsheet/Lotus 1-2-3 (1) ii. Advanced course with emphasis on refinement of basic skills and use of spreadsheet as a tool in the processing of information, including additional study of macros, functions, and add-ons. Prerequisite: OIS 261 or written consent of instructor.

OIS 330 Records Management (3) i. Introduction to nature of records management; includes methods of storage, retrieval, retention, transfer, and disposition; and alphabetic, numeric, geographic, and subject systems.

OIS 345 Advanced Machine Transcription (2) ii. Emphasizes improvement in production of mailable copy from transcription equipment. Continues application and development of technical skills introduced in Machine Transcription. Prerequisite: OIS 232.

OIS 350 Office Communications (3) ii. Designed to teach effective written communications, which include business memos, letters, and reports. Emphasizes grammar and effective writing techniques. Includes other types of office communications, verbal and nonverbal, including telephone usage, oral presentations, and one-on-one interactions. Shows how the microcomputer and other technological changes of the decade affect office communications. Three hours lecture. Prerequisite: ENG 104 or equivalent and OIS 141.

OIS 351 Model Office (3) ii. Simulated office experience designed to integrate a wide range of knowledge and skills in modern office practice. Three hours lecture, two hours lab. Prerequisites: OIS 141 with minimum grade of C; OIS 150, OIS 231, 232, 233, 261. (Certificate students only may be concurrently enrolled in OIS 150 and OIS 261.)

OIS 360 Office Management (3) ii. Develops the ability needed to plan, organize, staff, and supervise an office; includes management responsibility for office layouts, equipment, human relations, budgeting, and decision making.

OIS 369 Information Processing (3) i. Explores the rapidly changing field of information processing, electronic exchange of information, the systems approach to information processing, management/selection of information systems, personnel issues and careers. Prerequisite: OIS 150 Word Processing/WordPerfect.

OIS 371 Word Processing Practicum (2-3) i, ii. Provides work experience in the Office Information Systems Word Processing Center for a minimum of ten hours a week. The student may take the course for credit only one semester. Prerequisite: OIS 150, completed major application in Office Information Systems, and written consent of instructor.

Bachelor of Science in Education

Degree Requirements

Major In Art

Courses in art must total 52 credits. The following specific courses are required: ART 205, 255, 335, plus 3 additional credits selected from courses in art history; ART 110, 120, 130, 140, 160, 170, 300, 339, 350, 359, 369, 379, 494, plus 4 additional credits selected from courses in art.

Bachelor of Science, Major In Commercial Art

Degree Requirements

Courses in art must total 60 credits. The following specific Courses are required: ART 110, 120, 130, 140, 160, 170, 205, 255, 310, 315, 329, 330, 339, 359, 369, 389, 390, 430, 485, 490, 494, plus 9-11 credits in the practical experience area and 9 credits in selected business courses.

History and Appreciation of Art Courses

ART 100 Introduction to Art (3) i, ii, iii. General background in the history, philosophy, principles, and techniques of the visual arts.

ART 205 Ancient through Medieval Art (3) i. History of art in western civilization: prehistoric times through the Middle Ages.

ART 255 Renaissance through Modern Art (3) ii. History of art in western civilization: Renaissance through modern times. Prerequisite: ART 205 or consent of instructor.

ART 305 Art of Eastern Civilization (3) i (every third year). The history of art in eastern civilization from earliest records to the present day; visual arts of India, China, and Japan. Prerequisite: ART 205 and 255, or consent of instructor.

ART 335 Art Theory and Criticism (3) i. Examination of critical thought in art theory, philosophy, and criticism. Prerequisite: ART 205, 255, and completion of freshman core curriculum in art, or consent of instructor.

ART 355 American Art (3) ii (every third year). Development of art in the United States. Prerequisite: ART 205 and 255, or consent of instructor.

ART 405 Nineteenth Century Art (3) i (every third year). Major movements in nineteenth century painting, sculpture, and architecture. Prerequisite: ART 205 and 255, or consent of instructor.

ART 415 Art Since 1960 (3) i (every third year). Investigation into the latest trends, theories, and technologies in the area of visual and conceptual art. Prerequisite: ART 205 and 255, or consent of the instructor.

ART 450 Independent Study in Art (1-5) i, ii. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of the major-minor application form in art, consent of department chairperson, and minimum 2.5 GPA in major field of study.

ART 455 Twentieth Century Art (3) ii (every third year). Art in the twentieth century. Prerequisite: ART 205 and 255, or consent of instructor.

ART 465 North American Indian Art (3) ii (every third year). Style, technique, history, and related anthropology. Direct experiences emphasized in cooperation with area museum staff and collections. Prerequisite: Art 205 and 255, or consent of the instructor.

ART 494 Senior Seminar and Exhibit (1) i, ii, iii. Class session on professional topics; preparation and presentation of an exhibition of the student's personal art work. Prerequisite: Consent of the Junior Review Committee.

ART 496 Internship in Art (2-6) i, ii, iii. Practical guided experience in a range of design, graphic art, typography, illustration, photography and publications tasks. Prerequisite: ART 260 and 290, portfolio review. Junior or senior level art majors only. Requires permission of instructor.

Studio Art Courses

ART 110 Beginning Drawing I (3) i, ii, iii. Elementary drawing with the figure, still life, landscape, and perspective in various media. Six studio hours.

ART 120 Two-Dimensional Design (3) i. Exploration of design principles and fundamentals in two-dimensional media using a problem-solving approach. Six studio hours.

ART 130 Introduction to Tools and Techniques (2) i, ii. Basic skills with studio hand tools and power equipment; emphasizes safety procedures. This course is a prerequisite for any studio art course except ART 110 and 120. Four studio hours.

ART 140 Ceramics I (3) i, ii. Traditional and contemporary approaches to ceramics as an art form; emphasizes technical, historical, and aesthetic problems. Six studio hours. (Students must purchase the clay they use.) Prerequisite: successful completion of Art 110, 120, 130, with a GPA of 2.50 or better in the three courses.

ART 160 Beginning Drawing II (3) i, ii. The figure in various media; still life, landscape, and nonobjective directions; problems dealing with the complete drawing. Six studio hours. Prerequisite: successful completion of Art 110, 120, 130, with a GPA of 2.50 or better in the three courses.

ART 170 Three-Dimensional Design (3) ii. Emphasis on form and composition using a problem solving approach; exploration of a wide variety of three-dimensional materials and processes. Six studio hours. Prerequisite: successful completion of Art 110, 120, 130, with a GPA of 2.50 or better in the three courses.

ART 300 Elementary Art Teaching: Philosophy and Methods (3) i, ii, iii. Current methods and materials for the teaching of art in the elementary grades; theory and experience with elementary school art projects. Prerequisite: EED 202 or consent of instructor.

ART 310 Intermediate Drawing (3) i, ii. The figure in various media; still life, landscape, and nonobjective directions; intermediate problems dealing with the complete drawing. Six studio hours. Prerequisite: ART 160.

ART 315 Illustration (3) ii. Techniques and media used in the production of drawings for commercial purposes. Prerequisites: completion of Freshman core curriculum plus ART 369 and ART 310.

ART 320 Ceramics II (3) i, ii. Concentrates on hand building and throwing techniques; introduces kiln firing and glaze formulation. Six studio hours. (Students must purchase the clay they use.) Prerequisite: ART 140 and consent of instructor.

ART 329 Computer Art I (3) i. Basic introduction to the computer as a visual tool for the artist. Design, layout, and typography using the micro computer with a variety of graphics and word processing software. Prerequisite: Declared major in the Commercial Art Program.

ART 330 Computer Art II (3) i. Advanced techniques using commercially prepared graphics software with emphasis on merging programs to combine text and images. Introduction to desktop publishing. Prerequisite: successful completion of Art 329 with a grade of "C" or better.

ART 339 Printmaking I (3) i. Relief and intaglio printmaking processes. Six studio hours. Prerequisite: ART 120 and 160.

ART 340 Printmaking II (3) i. Continued exploration of relief and intaglio processes; introduction to serigraphy. Six studio hours. Prerequisite: ART 339.

ART 350 Secondary Art Teaching: Philosophy and Methods (3) ii (even-numbered years). Teaching methodologies and materials for the secondary school art teacher; design of appropriate art learning experiences for the adolescent. Prerequisite: ART 300 or consent of instructor.

ART 359 Photomedia I (3) i. Black-and-white photographic processes and problems; student must have access to a camera with adjustable aperture and shutter speed. Six studio hours. Prerequisite: ART 110 and 120.

ART 360 Photomedia II (3) i. Continued study of black and white photographic processes and problems with an introduction to some color photographic processes and problems. Six studio hours. Prerequisite: ART 359.

ART 369 Painting I (3) i, ii. Color, composition, and technique; the figure, still life, and nonobjective problems. Six studio hours. Prerequisite: ART 130 plus 6 credits in drawing.

ART 370 Painting II (3) i, ii. Continuation of exploration with color, composition, and technique; figurative and nonobjective directions. Six studio hours. Prerequisite: ART 369.

ART 379 Sculpture I (3) i. Basic foundations in sculpture: theory, techniques, materials, processes. Six studio hours. Prerequisite: ART 130 and 170.

ART 380 Sculpture II (3) i. Sculptural theory, concepts, techniques, materials, and processes at the intermediate level. Six studio hours. Prerequisite: ART 379.

ART 389 Graphic Design I (3) ii. Composition and layout with emphasis on color, type, and proportion. Six studio hours. Prerequisite: ART 120, 160, 359.

ART 390 Graphic Design II (3) ii. Continued study of composition and layout with an introduction to preparing mechanicals and camera-ready art work. Six studio hours. Prerequisite: ART 389.

ART 410 Advanced Drawing (3) i, ii. The figure in various media; advanced problems dealing with drawing as a complete form. Six studio hours. May be repeated for credit. Prerequisite: ART 310.

ART 420 Ceramics III (3) i, ii. Advanced techniques and problems in ceramics. Six studio hours. May be repeated for credit. (Students must purchase the clay they use.) Prerequisite: ART 320 and consent of instructor.

ART 430 Computer Art m (3) i. Production of camera-ready mechanicals using computer generated images. Using printer output as a source of imagery rather than as an end product. Prerequisites: Art 329 with a grade of "C" or better and Art 330 with a grade of "B" or better.

ART 440 Printmaking III (3) i. Advanced problems in relief, intaglio, and serigraphy processes. Six studio hours. May be repeated for credit. Prerequisite: ART 340.

ART 460 Photomedia III (3) i. Advanced study of black and white and some color photographic processes and problems. Six studio hours. May be repeated for credit. Prerequisite: ART 360.

ART 470 Painting III (3) i, ii. Advanced problems dealing with color and composition; figurative and nonobjective directions. Six studio hours. May be repeated for credit. Prerequisite: ART 370.

ART 480 Sculpture III (3) i. Advanced techniques in various media emphasizing individual experience. Six studio hours. May be repeated for credit. Prerequisite: ART 380.

ART 485 Pre-Press Techniques (3) i. An intense practicum emphasizing: (1) Design and problem solving for print; (2) pre-press production information, processes, techniques and skills; (3) printing and related industries; and (4) designers and professional practice. Prerequisite: ART 390 and senior class standing or consent of instructor.

ART 490 Graphic Design III (3) ii. Advanced study of composition and layout with an emphasis in preparing mechanicals and camera-ready art work. Six studio hours. May be repeated for credit. Prerequisite: ART 390.

Department of Biology

Dr. R. Crumley, *Chairperson*

Biology students study all forms of life at the molecular, organismal, and population levels of complexity. Students work in well-equipped laboratories using current 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.

The biology curriculum consists of core courses taken by all biology majors, followed by biology electives in specific areas. The department curriculum provides excellent preparation for prospective science teachers, graduate students, and research biologists, among others, and for professional programs in medicine, dentistry, and veterinary medicine.

Earth Science and Physical Science (for the elementary teacher) are also listed in the biology department.

Bachelor of Science Degree

Major in Biology

Courses in Biology include the following core courses: (18 hrs.) BIO 111, 209, 210, 212, 270, plus 22 additional credits from biology courses numbered 300 or higher selected from the following areas:

A. Organismal Diversity (12 hours) Select three (3) courses from at least two (2) of the following areas: (1) BIO 415, 416; (2) BIO 350, 405, 406; (3) BIO 390.

B. Physiology (4 hours) Select one of the following: BIO 311 or 340.

C. Biological Electives. Complete a minimum of six (6) hours from the following: BIO 305, 320, 375, 400, 411, 412, 421, 420, 495 or any course not used in areas A and B.

Total Biology courses required must total a minimum of 40 credits. Additional required courses include CHE 111, 120, 310, 311, and 370; MAT 132 and PHY 110.

Major In Natural Science with Biology Emphasis

Courses in Biology include the following core courses: (22 hrs.) BIO 111, 209, 210, 212, 270, and 390, plus 12 additional credits from biology courses numbered 300 or higher selected from the following areas:

A. Organismal Diversity (4 hours) Select one (1) course from one of the following areas: (1) BIO 415, 416; (2) BIO 350, 405, 406.

B. Physiology (4 hours) Select one of the following: BIO 311 or 340.

C. Biological Electives. Complete a minimum of four (4) hours from the following: BIO 305, 320, 375, 400, 411, 412, 421, 420, 495 or any course not used in areas A and B.

Total Biology courses required must total 34 credits. Additional required courses include CHE 111, 120, 310, 311, 321, and 370; MAT 132; PHY IIO and III; CSC 100; and ESC 111.

Teacher Education In Biology

Students desirous of teaching Biology at the secondary school level are required to complete the Bachelor of Science degree program in Biology along with the completion of the Professional Education Sequence required for teacher certification at the secondary school level (see description under Secondary Education).

Major in Biology for Secondary Teachers

Courses in Biology to include the following core courses: (21 hrs.) BIO 111, 209, 210, 212, 270, and 380. Plus 19 additional credits from biology courses numbered 300 or higher selected from the following areas:

- A. Organismal Diversity (12 hours) Select three (3) courses from at least two (2) of the following areas: (1) BIO 415, 416; (2) BIO 350, 405, 406; (3) BIO 390.
- B. Physiology (4 hours) Select one of the following: BIO 311 or 340.
- C. Biological Electives. Complete a minimum of three (3) hours from the following: BIO 305, 320, 375, 400, 411, 412, 421, 420, 495, or any course not used in areas A and B.
- Total Biology courses required must total a minimum of 40 credits. Additional required courses include CHE 111, 120, 310, 311, and 370; MAT 132 and PHY 110. Completion of the Professional Education sequence: SED 202, 203, 303, 304, 311, 404, 407 and 409 is required. Students completing this program will qualify for Missouri Teaching Certification in Biology.

Major in Natural Science with Biology Emphasis for Secondary Teachers:

Courses in Biology to include the following core courses: (25 hrs.) BIO 111, 209, 210, 212, 270, 380, and 390. Plus 8 additional credits from biology courses numbered 300 or higher selected from the following areas:

- A. Organismal Diversity (4 hours) Select one (1) course from the following areas: 1. BIO 415, 416; 2. BIO 350, 405, 406.
- B. Physiology (4 hours) Select one of the following: BIO 311 or 340.
- Total Biology courses required must total a minimum of 32 credits. Additional required courses include CHE 111, 120, 310, 311, 321, 370 and 465; MAT 132; PHY 110 and 111; CSC 100; and ESC 111.

Completion of the Professional Education sequence: SED 202, 203, 303, 304, 311, 404, 407, and 409 is required. Students completing this program will qualify for Missouri Teaching Certification in Biology and Chemistry.

Minor in Biology

A minor in biology consists of a minimum of 20 credits including a basic biology course in category one, plus at least one course from categories 2-5 listed below.

1. Basic Biology: BIO 111 or BIO 101 with a B or better
2. Environmental Biology: BIO 209, 305
3. Physiology: BIO 311, 340, or BIO 240 and 241
4. Organismal Diversity: BIO 251, 350, 390, 405, 406, 415, 416
5. Biology electives: BIO 210, 212, 252, 320, 411, 421

Careful attention must be given to course prerequisites in the planning of the minor program.

Minor In Gerontology/Aging

MWSC offers an interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work. Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)

A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology / Aging Advisory Board

(* indicates this course is required of all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit his/her schedule. Contact the department chair, Academic Affairs office, or Coordinator of the Minor in the Social Sciences Department for more information.

Biology Courses

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 with a grade of B or better. Four hours lecture, two hours lab.

BIO 111 General Biology (5) i, ii. Phenomena associated with living organisms; primarily for biology majors. Four hours lecture, three hours lab.

BIO 209 Environmental Biology (4) i. Basic concepts and field techniques used in studying the relationships of organisms to their environment. Three hours lecture, three hours lab. Prerequisite: BIO 111.

BIO 210 Cellular Biology (4) ii. Molecular cell structure with relationship to such cell functions as transport, chemical transformations, growth, and reproduction. Three hours lecture, two hours lab. Prerequisite: BIO 111 and CHE 111, or consent of instructor.

BIO 212 Genetic Biology (4) ii. Hereditary and adaptive principles as applied to plants and animals. Three hours lecture, three hours lab. Prerequisite: BIO 111.

BIO 240 Anatomy and Physiology I (5) i, ii, iii. Concepts of human function and structure and relationship of these concepts to cells, tissues, organs, and systems. Four hours lecture, two hours lab. Credit for this course is not applicable toward a major in biology. Prerequisite: BIO 101 or consent of instructor.

BIO 241 Anatomy and Physiology II (4) i, ii, iii. Continuation of BIO 240. Concepts of human function and structure and relationship of these concepts to cells, tissues, organs, and systems. Three hours lecture, two hours lab. Credit for this course is not applicable toward a major in biology. Prerequisite: BIO 240 with a grade of C or better.

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. Three hours lecture, three hours lab. Credit for this course is not applicable toward a major in biology. Prerequisite: BIO 101 and CHE 104.

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. Prerequisite: BIO 101 or CHE 101 or CHE 104.

BIO 260 Human Sexuality (3) i. Biological, sociological, and psychological aspects of human sexuality. Credit for this course is not applicable toward a major in biology.

BIO 265 Biology of Aging (3) i (even-numbered years) Introductory course examining the aging process in humans and other living organisms. Research into the causes of aging, prospects of retarding or reversing the aging process and the outlook for increasing life expectancy and life span in humans is reviewed. Prerequisite: BIO 101 or Consent of Instructor.

BIO 270 Current Literature of Biology (1) i, ii. Research in major journals and other literature in the area of biology. Prerequisite: BIO 111.

BIO 305 Human Ecology (3) ii. Mankind and the environment; ecological principles, population, pollution, resources. Prerequisite: BIO 101 or BIO 111.

BIO 311 Human Physiology (4) i. The physiological systems, their functions and interactions in human physiology; comparisons within the animal kingdom. Three hours lecture, two hours lab. Prerequisite: BIO 111.

BIO 313 Topics in Molecular Genetics (1) i (even-numbered years) A special topics lecture course dealing with the molecular biology of the gene, i.e., the storage, modification, transmission, and retrieval of macromolecular information. One hour lecture/discussion. Prerequisite: BIO 101 or 111 and BIO 212. Completion of BIO 210 recommended.

BIO 320 Histology (4) i (even-numbered years). Identification and description of microscopic structure, organization of tissues and organs, preparation of tissues for observation and study. Three hours lecture, three hours lab. Prerequisite: BIO 111 and BIO 210.

BIO 340 Plant Physiology (4) i (odd-numbered years). Plant functions; emphasis on water relations, mineral nutrition, plant biochemistry, development, and responses to environmental factors in higher plants. Three hours lecture, two hours lab. Prerequisite: BIO 210.

BIO 350 Plant Systematics (4) i (even-numbered years). Identification, characteristics, and importance of seed plants; studies classification, techniques, and literature of taxonomy. Requires a plant collection and field trips. Three hours lecture, two hours lab. Prerequisite: BIO 111.

BIO 375 Pathophysiology (4) ii. Disease and physiological disorders produced by disease; origin, incidence, symptoms, and therapy of diseases. Three hours lecture, two hours lab. Prerequisite: Completion of the AS in nursing, or BIO 210 and 311 with grades of C or better.

BIO 380 Biology Teaching: Materials and Methods (3) ii (even-numbered years). Using the laboratory and demonstrations to teach basic biological concepts. Students enrolled in this course must also be available to work in one of the scheduled BIO 101 labs. Prerequisite: 20 credits in science, or consent of instructor.

BIO 390 Microbiology (4) 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 processes. Three hours lecture, Three hours lab. Prerequisite: BIO 111.

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. Three hours lecture, four hours lab. Prerequisite: BIO 390 with a grade of C or better.

BIO 405 Plant Morphology: Non vascular Plants (4) i (odd-numbered years). Structure, development, and relationships of algae, fungi, and bryophytes. Three hours lecture, two hours lab. Prerequisite: BIO 111.

BIO 406 Plant Morphology: Vascular Plants (4) ii (even-numbered years). Structure, development, and relationships of vascular plants. Three hours lecture, two hours lab. Prerequisite: BIO 111.

BIO 411 Developmental Biology (4) ii. Plant and animal development; formation of organs and organ systems. Three hours lecture, three hours lab. Prerequisite: BIO 111 and BIO 210.

BIO 412 Seminar in Biology (1). Individual reports and group discussion on problems and current research in biology. May be repeated for a maximum of 2 credits. Prerequisite: Consent of instructor.

BIO 415 Invertebrate Zoology (4) i (even-numbered years). Comparative anatomy and biological principles of the invertebrates. Three hours lecture, two hours lab. Prerequisite: BIO 111 and BIO 210.

BIO 416 Vertebrate Zoology (4) ii (odd-numbered years). Principles and evolution of vertebrate structure and function. Three hours lecture, two hours lab. Prerequisite: BIO 111.

BIO 420 Biology Practicum (1) i, ii, iii. An extracurricular exercise shown to be relevant to the degree of professional experience sought by the student. This experience may not be substituted for other courses required in the students major area. The practicum may be repeated for credit but only one hour of credit will be used toward the major. The practicum experience will fall into one of the three following categories to be approved by the Biology Department faculty before registration: (1) Preprofessional experience (2) Laboratory Teaching Assistant (3) A unique approved career related experience. Prerequisite: Junior or Senior standing with declared Biology major and consent of supervising instructor and Department Chairperson.

BIO 421 Immunology (4) ii (even-numbered years). A lecture-laboratory course dealing with the principles of immunology. Topics include: antigens, immunoglobulin, complement, antigen-antibody interactions, B-cells, T-cells, immunotolerance, suppression, immediate/delayed hypersensitivities, immunogenetics, transplantation and tumor immunology, immune proliferative and deficiency syndromes, autoimmunity, immunity to infection. Prerequisite: BIO 390 or consent of instructor and CHE 310 (concurrent enrollment, minimally).

BIO 495 Individual Research in Biology (1-5) i, ii, iii. Individual research within the various fields of biology. The student will be required to present results of investigation at a public seminar. Prerequisite: Junior or Senior standing, with a declared Biology major, 2.5 GPA, and consent of supervising instructor, and department chairperson; BIO 111, BIO 270, CHE 111, CHE 120, MAT 116.

Earth Science Courses

ESC 111 Physical Geology (4) 1, ii. Survey of geologic materials and processes.

ESC 120 Meteorology (3) ii (odd-numbered years). Studies the nature and phenomena of the atmosphere and surveys climates and their classification.

Physical Science Courses

PHS 230 Physical Science for Elementary Teachers (3) 1, ii. Basic concepts of the physics, chemistry, astronomy, meteorology, and geology emphasizing topics taught in grades K-6. Prerequisite: Declared major in Elementary Education or permission of instructor.

Department of Communication Studies, Theatre, and Humanities

Dr. James V. Mehl, *Chairperson*

The Department of Communication Studies, Theatre, and Humanities comprises several diversified areas of knowledge and experience. The humanities center on the human being—aspirations, potentialities, relationships with others—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 mankind's social and creative life, thereby acquiring a background for careers in fields such as law, politics, journalism, public relations, communication, and teaching.

The Department of Communication Studies, Theatre, and Humanities offers the following degrees: (1) the Bachelor of Arts degree both in speech communication and in theatre*; (2) the Bachelor of Science degree in speech communication; (3) the Bachelor of Science in Education degree (a joint degree combining speech communication and theatre). Students may minor in Humanities, Speech and Theatre, Speech Communication, Theatre, Musical Theatre, or Gerontology/Aging.

Bachelor of Arts Degree Requirements

The BA requires 16 credits in a single foreign language.

Major In Speech Communication

Courses must total 52 credits. The following specific courses are required:

	<i>Credits</i>
COM 204 Mass Communication	3
COM 210 Presentational Communication	
OR	
COM 334 Argumentation and Debate	3
COM 305 Interpersonal Communication	
OR	
COM 345 Nonverbal Communication	3
COM 324 Small Group Communication	3
COM 310 Public Relations Communication Analysis	3
COM 314 Persuasion	3
COM 338 Survey of Rhetorical Theory	3
COM 410 Organizational Communication	3
COM 420 Research Methods in Communication	3
COM 480 Case Strategies and Criticism	3
Plus 6 additional credit hours in communication studies numbered 200 or above	6
Plus 16 hours in a single foreign language	16
	<hr/>
	52

Major In Theatre

* The Bachelor of Arts with a major in Theatre is being discontinued at MWSC. Only students who officially declared their major in Theatre prior to March 1992 will be allowed to complete the program. They should work closely with their academic advisors to ensure timely completion of the degree.

Courses in theatre and related areas must total 40 credits. The following specific courses are required: THR 124, 217, 228, 239, 259, 267, 279 and 338, plus an additional 12 credits selected from theatre courses, of which 9 credits must be numbered 300 or higher (THR 368 and/or THR 478 are recommended. 6 credits may be selected from non-theatre courses, but must have departmental approval).

Minor In Speech Communication

Courses in communication must total 21 credits. The following specific courses are required: COM 210, 305 or 324, 314 or 334 or 338, 310 or 410, plus 9 additional credits in communication numbered 200 or above.

Minor In Theatre

Courses in theatre must total 20 credits. The following specific courses are required: THR 140, 218, 267, 279 or 289, 338, plus elective credits in theatre or departmentally approved course work to total 6 credits, 3 of which must be numbered 300 or higher.

Minor In Humanities

Courses in humanities and approved electives must total 21 credits. The following specific courses are required: HUM 203, 205, 360 plus one course selected from HUM 210, 230, 250. Nine additional credits must be selected from HUM 210, 230, 250, 263, 265, ART 205 or 255 (not both), ENG 248, MUS 310 or 311 (not both), COM 338, THR 267, or other courses approved by the humanities faculty.

Minor In Gerontology/Aging

MWSC offers an interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work. Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)
- A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required of all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned into his/her schedule. Contact the department chair, Academic Affairs office, or Coordinator of the Minor in the Social Sciences Department for more information.

Bachelor of Science in Education Degree Requirements

Major in Speech and Theatre

Courses in communication and theatre must total 42 credits. The following specific courses are required: COM 204, 210, 305 or 324, 314, 334, 465 plus 3 credit hours of Communications numbered 200 or above; COM/THR 228, 275, THR 218, 239, COM/THR 279, THR 267, 338.

Minor In Speech and Theatre

Courses in communication and theatre must total 21 credits. The following specific courses are required: COM 210 or 334, 305 or 324, 465; THR 218, 338; COM/THR 228, 279. This minor qualifies student to be certified to teach grades 7-9. In order to be qualified for certification, grades 7-12, student must take an additional 9 credit hours of course work (to total 30 credit hours in communication and theatre), with 3 credits from communication (200 level or higher; 7-12 certification requires COM 334), 3 credits from theatre, and the additional 3 credits from either communication or theatre (200 level or higher).

Minor in Musical Theatre

This program is only for students who are speech/theatre majors. Courses in the Minor in Musical Theatre must total 24 hours. The following courses are required: MUS 105, 106, 108, 130, 189/289 (4 hours over two years), 338 (4 hours), THR 140 (Musical Theatre), THR 126 and 326.

Bachelor of Science with a Major in Speech Communication Degree Requirements

There are four possible emphasis areas upon which the Bachelor of Science in Speech Communication degree may focus:

Quantitative Emphasis, Human Relations Emphasis, Public Relations Emphasis, Video Production/Performance Emphasis.

Students in each emphasis area must complete the following set of core courses, totaling 30 credit hours:

	<i>Credits</i>
COM 204 Mass Communication	3
COM 210 Presentational Communication	
OR	
COM 334 Argumentation and Debate	3
COM 305 Interpersonal Communication	
OR	
COM 345 Nonverbal Communication	3
COM 324 Small Group Communication	3
COM 310 Public Relations Communication Analysis	3
COM 314 Persuasion	3
COM 338 Survey of Rhetorical Theory	3
COM 410 Organizational Communication	3
COM 420 Research Methods in Communication	3
COM 480 Case Strategies and Criticism	3
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	<i>Total 30</i>

In addition to the 30 credit core, each emphasis area requires the following course work for completion:

Major in Speech Communication, Quantitative Emphasis:*Credits*

In addition to the 30 credit core named above, the following courses are required:

PSY 200	Intermediate Psychology	3
CSC 100	Computer Literacy	3
CSC 120	Microcomputer Applications	3
MAT 132	Elementary Statistics	3
MAT 137	Calculus in Business and the Non-Physical Sciences	4
Two courses chosen from the following:		6
CSC 184	Introduction to Computing Concepts	
CSC 188	FORTTRAN Programming	
CSC 245	COBOL Programming	
PSY 300	Psychological Statistics & Measurements	

*Sub-total 22**Total 52***Major in Speech Communication, Human Relations Emphasis:***Credits*

In addition to the 30 credit core named above, the following courses are required:

ACC 230	Principles of Accounting I	3
MGT 312	Principles of Management	3
MGT 412	Personnel Management	3
Plus 6 additional credits from the following:		6

PSY 201	Applied Environmental Psychology	
PSY 310	Industrial Psychology	
PSY 325	Psychology of Personality	
SOC 230	Social Problems	
SOC 310	Deviant Behavior	
SOC 330	The Family	
LMA 363	Leisure Counseling in Therapeutic Recreation	
HUM 230	Ethics	
JOU 322	Organizational Writing	

Plus 6 credits of COM, PSY, SOC 200 or higher

6*Sub-total 21**Total 51***Major in Speech Communication, Public Relations Emphasis:***Credits*

In addition to the 30 credit core named above, the following courses are required:

COM 270	Intro to Video Production	3
JOU 104	Photography Fundamentals	
	OR	
JOU 304	Publication Design	3
JOU 202	Basic News Reporting	3
JOU 308	Copy Editing	3
JOU 322	Organizational and Public Relations Writing	3
ECO 260	Principles of Economics I	3
MKT 301	Principles of Marketing	3
MKT 311	Consumer Behavior	3
MKT 381	Promotional Management	3

Plus 3 additional credits of COM, JOU, ECO, or MKT, numbered 200 or above

3*Sub-total 30**Total 60*

Major in Speech Communication, Video Production/Performance Emphasis:

In addition to the 30 credit core named above, the following courses are required:

			<i>Credits</i>
COM	270	Intro to Video Production	3
COM	272	Pre-production Planning	3
COM/THR	275	Script Analysis	3
COM	370	Field Production	3
COM	372	Survey in Video Technologies	3
COM	374	Multi-Camera Production	
OR			
COM	376	Video Post-production	3
COM/THR	470	Video Producing/Directing	
OR			
THR	338	Directing for Theatre	3
Plus 3 courses chosen from the following:			9
COM/THR	228	Acting	
COM/THR	289	Production Lighting	
THR	124	Voice and Diction	
COM/THR	279	Scenographic Techniques	
COM	276	Audio Production	
COM/THR	278	Video Performance Techniques	
<i>Sub-total</i>			<u>30</u>
<i>Total</i>			<u>60</u>

Communication Courses

COM 104 Oral Communication (3) i, ii, iii. Principles of speech as applied in meaningful participation in society. Not available for credit to students with credit or concurrent enrollment in COM 105.

COM 105 Business and Professional Speech Communication (3) i, ii. Principles of speech communication directly applicable to the professions and business involving formal presentations of various types: interview techniques and skills, meeting methods and management, and presentational speaking. Not available for credit to students with credit or concurrent enrollment in COM 104.

COM 204 Mass Communication (3) ii. Basic concepts of mass communication; interpretation of mass communication as a persuasive, artistic, and social force.

COM 210 Presentational Communication (3) i. Theory and practice of constructing public presentations including: media use, organization, delivery, means of appeal, and analysis of audience and setting. Prerequisite: COM 104 or COM 105.

COM 218 Oral Interpretation (3) i (even-numbered years). Oral reading and analysis of prose, poetry, and drama. Same as THR 218.

COM 228 Acting (3) i. Basic Principles of acting and stage movement developed through improvisational techniques.

COM 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 4 credits. Course grades assigned on the basis of amount of participation rather than tournament results. Students who plan on participating in forensics are encouraged to enroll in this class.

COM 270 Introduction to Video Production (3) i, ii, iii. Introduction to the various aspects of video production. The course will include practical as well as aesthetic theory and application of video and audio equipment. Prerequisite: COM 104 or COM 105 or permission of instructor.

COM 272 Pre-production Planning (3) i. An essential course for students who wish to be involved in media production. The course is designed to explore all aspects of Pre-production planning for video and other forms of media production used in the corporate world. Prerequisites: COM 104 or COM 105, ENG 108 or ENG 112, or permission of instructor.

COM 275 Script Analysis (3) i. (odd-numbered years). A critical study of script formats as well as the application of scripting techniques involving character and scene development used in corporate, instructional, public relations, dramatic and other production formats. Prerequisites: ENG 108 or ENG 112 or permission of instructor.

COM 276 Audio Production (3) ii (odd-numbered years) A critical study of the theory, application, aesthetics, techniques and equipment in audio production. Prerequisites: Permission of instructor.

COM 278 Video Performance Techniques (3) i (even-numbered years) This course is designed to develop those skills needed to communicate effectively in front of the camera. Prerequisites: COM 104 or COM 105 and permission of instructor.

COM 279 Scenographic Techniques (3) i (odd-numbered years). Stages, staging techniques and construction in relation to stage, video and film production

COM 289 Production Lighting (3) ii (even-numbered years). Continuation of COM/THR 279 emphasizing the elements of lighting design and techniques as they apply to stage, screen and video.

COM 305 Interpersonal Communication (3) i. Analyzes communication interaction in relatively unstructured, person-to-person settings with application of interpersonal communication concepts to resolving problems emerging from human interactions.

COM 310 Public Relations Communication Analysis (3) i. Applies principles of speech communication to the image-building functions of internal and external public relations; audience analysis, internal/external organizational communication audits, persuasive campaign design, communication channels and barriers. Prerequisite: COM 104 or 105.

COM 314 Persuasion (3) ii. Persuasion as a process of influencing attitude and behavior; emphasizes the theories of modern persuasion and their use in social, political and advertising campaigns. Prerequisite: COM 104 or 105.

COM 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.

COM 334 Argumentation and Debate (3) i (odd-numbered years). Philosophical and theoretical foundations of logic and argumentation to the persuasive process; experience in preparation and presentation through debate and discussion formats. Prerequisite: COM 104 or 105.

COM 338 Survey of Rhetorical Theory (3) i. Survey of the formation and transformation of rhetorical theory from the Classical Age. Prerequisite: COM 104 or COM 105.

COM 345 Nonverbal Communication (3) ii. Nonverbal aspects of communication; factors which affect and modulate verbal messages; interpretation of nonverbal information; kinesics (body motion), proxemics (social/personal space), and paralanguage (vocal cues accompanying words). Prerequisite: COM 104 or 105.

COM 350 Selected Topics in Speech Communication (3) i, ii. Specialized course work in the field of speech communication. Prerequisite: COM 104 or 105, or consent of instructor. Course may be repeated for up to six credits maximum with different topics.

COM 370 Video Field Production (3) ii. A critical study of documentary, corporate news, single camera film style, and corporate field production. Skills with video production equipment will be utilized in a number of "real life" production situations. Prerequisites: COM 270 and COM 272.

COM 372 Survey in Video Technologies (3) i (odd-numbered years). This course is an overview of video delivery/transmission technologies. The course consists of a historical review, the application of current technologies and research into future technologies. Prerequisites: Permission of instructor.

COM 374 Multi-Camera Production (3) i (even-numbered years). This course is designed to introduce the student to the many aspects of the multi-camera production, both in the studio and on location. Prerequisites: COM 270 and COM 272.

COM 376 Video Post-production (3) ii (odd-numbered years). The examination and application of the theories, aesthetics and techniques used in video editing. Prerequisites: COM 272 and COM 370.

COM 410 Organizational Communication (3) ii. Theories and problems of human communication within a variety of organizational settings; the relationship of communication to motivation, organizational structure, nonverbal behavior, surroundings, leadership style, and information accuracy. Prerequisite: 3 credits in speech or consent of instructor.

COM 420 Research Methods in Communication (3) i. The course covers a variety of qualitative communication research methods. Students will be involved in critical analysis of previous research, and conceptualization and implementation of future research. Prerequisites: COM 104 or 105 or permission of instructor.

COM 450 Independent Study in Communication (1-5) i, ii. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form in speech, minimum 2.5 GPA in major field of study, and consent of department chairperson.

COM 460 Internship in Applied Communication (1-3) i, ii, iii. Applies communication theory and skills to actual work situations encompassing one or more of the following: internal/external organizational communication audits, audience analysis, interviewing, persuasive campaign design, public speaking. Professionally supervised work experiences related to the student's area of interest. (Thirty hours of work for each hour of credit.) Application must be made at least one semester prior to course registration. May be repeated for a total of 6 credits. Prerequisite: Senior status in the speech communication program and consent of department chairperson.

COM 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: SED 202 and 203.

COM 470 Video Producing/Directing (3) ii. A critical look at the role of the producer and director and the application of the principles and techniques used in directing a video production. Prerequisites: COM 272, 374 or 376 and permission of instructor.

COM 480 Case Strategies and Criticism (3) ii. Student application of theories and practices of communication theory. Entails a prospectus, execution, and public defense of projects. Prerequisite: Senior status and completed major/minor declaration.

Theatre Courses

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 115 American College Theatre Festival (1) ii. An intense exposure to theatre by means of attendance at the regional American College Theatre Festival. May be repeated for a total of 4 credits. Course grades assigned on a pass-fail basis.

THR 124 Voice and Diction (3) ii. Theories and techniques of improving voice and articulation; includes mastery of a working knowledge of phonetics.

THR 126 Stage Movement (2) (odd-numbered years). Fundamentals of stage movement for performers and directors.

THR 140 Production Participation (1-3) i, ii, iii. Forty hours of supervised practical work in any area of theatrical activity for each credit. May be repeated for a total of 6 credits. Course grades assigned on a pass-fail basis.

THR 218 Oral Interpretation (3) i (even-numbered years). Oral reading and analysis of prose, poetry, and drama. Same as COM 218.

THR 228 Acting (3) i. Basic principles of acting and stage movement developed through improvisational techniques.

THR 229 Stage Makeup (1) i (even-numbered years). Techniques and materials involved in two-dimensional stage makeup. Two hour lab with lecture/demonstration. (Students must furnish assorted makeup).

THR 239 Costume Technique (2) i (even-numbered years). Fundamentals of costuming for the stage, a study of fabrics and construction, basic cutting and sewing techniques, costume shop management, and a brief look at costume history and design.

THR 267 History of the Theatre (3) i (even-numbered years). The history of the theatre from its beginnings to the present day.

THR 275 Script Analysis (3) i (odd-numbered years). A critical study of script formats as well as the application of scripting techniques involving character and scene development used in corporate, instructional, public relations, dramatic and other production formats. Prerequisites: ENG 108 or 112 or permission of instructor.

THR 278 Video Performance Techniques (3) i (even-numbered years). This course is designed to develop those skills needed to communicate effectively in front of the camera. Prerequisites: COM 104 or 105 and permission of instructor.

THR 279 Scenographic Techniques (3) i (odd-numbered years). Stages, staging techniques and construction in relation to stage, video and film production.

THR 289 Production Lighting (3) ii (even-numbered years). Continuation of COM/THR 279 emphasizing the elements of lighting design and techniques as they apply to stage, screen and video.

THR 326 Techniques of Musical Theatre Performance (3) ii (even-numbered years). Fundamentals of dance for the musical theatre performer. Student must provide appropriate attire.

THR 338 Directing (3) ii (odd-numbered years). Principles of play direction: selection, casting, blocking, staging a production. Prerequisite: THR 217, 249, or consent of instructor.

THR 368 Shakespeare (3). A study of selected works. Same as ENG 368. Prerequisite: ENG 108 or 112, or consent of instructor.

THR 370 Summer Theatre Workshop (3) iii. Practical experience in designing, staging, acting, and producing a play or plays with individual assignments designated by the instructor. May be repeated for a maximum of 6 credits. Prerequisite: Consent of instructor.

THR 418 Independent Projects in Acting (1-3) i, ii, iii. Specialized research or performance problems; scholarly projects in the theory of acting for advanced students. Written project proposal must have instructor's approval before student's registration. May be repeated for a total of 6 credits. Prerequisite: THR 118, 218, 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; ordinarily includes directing a laboratory production. Formal production prospectus must be submitted one full semester in advance of enrollment and must be approved by the instructor before student's registration. May be repeated for a total of 6 credits. Prerequisite: THR 217, 239, 259, 338, or consent of instructor.

THR 449 Independent Projects in Stage Lighting and Sound (1-3) i, ii, iii. Projects course involving specialized study in theatrical sound and lighting. Student must submit project proposal to theatre staff for approval before registration. Prerequisite: THR 249, 259, and consent of instructor.

THR 459 Independent Projects in Scene Design (1-3) i, ii, iii. Projects course involving specialized study in scenery and property design and construction. Student must submit project proposal to theatre staff for approval before registration. Prerequisite: THR 249 and consent of instructor.

THR 469 Independent Projects in Costuming (1-3) i, ii, iii. Projects course involving specialized study in Costuming and/or Make-up. Student must submit project proposal to theatre staff for approval before registration. Prerequisite: THR 229 and/or THR 239 and consent of instructor.

THR 470 Video Producing/Directing (3) ii. A critical look at the role of the producer and director and the application of the principles and techniques used in directing a video production. Prerequisites: COM 272, COM 374 or 376 and permission of instructor.

THR 477 Independent Projects in Playwriting (1-3) i, ii, iii. A projects course involving independent work in playwriting. Should ordinarily result in a complete script. Student must submit project proposal to theatre staff before registration. Prerequisite: THR 217 and consent of instructor. May be repeated for up to 6 hours credit.

THR 478 Modern Drama (3). Drama from Ibsen to the present. Same as ENG 478. Prerequisite: ENG 108 or 112, or consent of instructor.

THR 479 Independent Projects in Theatre Marketing and Management (1-3) i, ii, iii. Projects course involving work in publicity, box office, public relations, advertising and/or management of a performing arts event. Student must submit project proposal to theatre staff for approval before registration. Prerequisite: THR 113 and consent of instructor.

THR 487 Independent Projects in Theatre Research (1-3) i, ii, iii. A projects course involving independent work in some area of Theatre History, Dramatic Theory or Literature, or Performance Theory. Should ordinarily result in a scholarly paper of some substance and scope. Student must submit project proposal to theatre staff before registration. Prerequisite: THR 217, THR 267, THR 417 and consent of instructor. May be repeated for up to 6 hrs. credit.

Humanities Courses

HUM 203 Humanities: Ancient and Medieval (3) i, ii, iii. The social and intellectual history of mankind as reflected by literature, art, music, drama and discourse from the classical period to the Renaissance.

HUM 205 Humanities: Renaissance to Twentieth Century (3) i, ii, iii. The social and intellectual history of mankind as reflected by literature, art, music, drama and discourse from the Renaissance to the present.

HUM 210 Introduction to Philosophy (3) i, ii, iii. Survey of the origins and development of philosophical thought.

HUM 219 Logic (3) i. A study of formal and informal reasoning; topics include recognition and evaluation of arguments, fallacies, sentence and predicate calculus, and scientific method.

HUM 230 Ethics (3) ii. Definition, meaning, scope, and application of ethics; an analysis of ethics in ancient, medieval, and modern times.

HUM 250 Comparative Religions (3) i, ii. Survey of nature and effects of major and minor religions on the culture and civilization of mankind.

HUM 263 Religion of the Old Testament (3) i (odd-numbered years). Introduction to the major elements of the Old Testament from the perspective of contemporary biblical scholarship.

HUM 265 Religion of the New Testament (3) ii (even-numbered years). Introduction to major elements of the New Testament from the perspective of contemporary New Testament scholarship.

HUM 360 Selected Readings in the Humanities (3) ii. Specialized course work in the humanities of western civilization; emphasizes analysis of humanistic works of leading authors. Prerequisite: HUM 203 and 205, or consent of instructor. Course may be repeated for credit (6 hour maximum) with consent of CS/T/H Chairperson.

HUM 370 Independent Study in Humanities (1-3) i, ii. Investigation of selected problems or topics on an individual conference basis. Consent of departmental chairperson is required. Students are normally expected to discuss proposed work with HUM faculty two semesters before registration is anticipated. May be repeated with permission of instructor and departmental chair for a maximum of 6 hours.

Department of Computer Science, Mathematics and Physics

Dr. C. Godfrey, Chairperson,

The Department of Computer Science, Mathematics and Physics contributes to the liberal arts education of all students and, in addition, provides specialized programs in computer science, computer information systems, mathematics, and physics for those students who desire a more thorough preparation for jobs in business, government, industry, and educational institutions.

Admissions Requirements

Computer Science or Computer Information Systems:

To gain admission into either of these degree programs, the student must have completed CSC 184 with a grade of C or better. In addition, the student must have an overall GPA of 2.0.

Mathematics:

To gain admission to any degree program in mathematics, the student must have completed MAT 167 with a grade of C or better.

Graduation Requirements

To graduate with a degree in any program offered by the Department of Computer Science, Mathematics, and Physics requires that the student receive a grade of C or better in each course in the major. In addition, all other institutional requirements for graduation must be met.

Bachelor of Science Degree Requirements

Major in Computer Science

The major in computer science requires the completion of the following program for a total of 55 credit hours: CSC 184, 186, 208, 284, 285, 385, 386, 470, and 484; MAT 167, 177, 306, 332; plus 12 credits of electives selected from the following list, of which 9 must be numbered 300 or above: CSC 188, 245, 345, 384, 388, 400, 418, 428, 430, 440, MAT 417, EET 202 and 203 (both EET 202 and 203 must be taken to count as credit toward the computer science major). In addition to the above requirements, computer science majors must take PHY 110 or PHY 210 to meet the Natural Sciences portion of their General Studies Program.

Major in Computer Information Systems

The major in computer information systems requires the completion of the following program for a total of 55 credit hours: CSC 184, 186, 245, 284, 285, 345, 386; plus 12 credits of computer science courses numbered 200 or above; MAT 132 or GBA 210; ACC 230, ACC 231, ECO 260; MGT 312; GBA 319; and MAT 137.

Major in Mathematics

The major in mathematics requires the completion of the following program for a total of 45 credit hours: MAT 167, 177, 208, 287, 301, 306, 317, 407, and 416, CSC 184; plus an additional 9 credits, of which at least 3 must be mathematics courses numbered 300 or above. The remaining hours can be selected from PHY 312, 410, 412, CSC 385, 388, 418, 428. The mathematics major advisor can provide information on the selection of elective courses which will best prepare the student for graduate study or a career in actuarial science, applied mathematics or teaching secondary school mathematics, as well as other careers requiring a strong mathematics background.

Teacher Education In Mathematics

Students intending to teach mathematics at the secondary school level are required to complete the Bachelor of Science Degree program in Mathematics along with the General Studies Requirements and the Professional Sequence as specified in this Catalog under Secondary Education. Certification for grades 7-12 requires the completion of the following courses: MAT 132, 167, 177, 208, 287, 301, 306, 315, 317, 332, 407, 416, 462, 463, and 465, and CSC 184. Mathematics certification for grades 7-9 may be added to other certifications by the completion of the following courses: MAT 112 or 116, MAT 132, 167, 177, 350, CSC 100 or 184.

Minors

Minor in Computer Information Systems

The minor in computer information systems requires the completion of the following program for a total of 18 credit hours: CSC 184, 186, 200, 245, 345; plus 3 credit hours of computer science electives numbered 200 or above

Minor In Computer Science

The minor in computer science requires the completion of the following program for a total of 18 credit hours: CSC 184, 186, 284, 285; plus 6 credits of computer science electives selected from CSC 188 and computer science courses numbered 300 or higher and MAT 147 or 167.

Minor in Mathematics

The minor in mathematics requires the completion of the following program for a total of 21 credit hours: MAT 167 and 177, plus elective courses in mathematics numbered 200 or higher. MAT 132 may also count in the total of 21 credits. Students seeking a minor in mathematics for teacher certification must contact the department chairperson for information regarding specific course requirements.

Minor in Physics

The minor in physics requires the completion of 20 credit hours. PHY 210, 211, and 312 are required. An additional 7 elective credits may be chosen from PHY 313, 320, 410, 470. Students seeking a minor in physics for secondary teacher certification must also complete PHY 465, the general studies requirements for secondary education, and the professional sequence for secondary education.

Computer Science Courses

CSC 100 Computer Literacy (3) i, ii, iii. Overview of data processing. Provides a working knowledge of computers. Includes instruction on selected software packages on microcomputers such as WordPerfect and LOTUS 1-2-3. This course does not fulfill the degree requirements for either computer science or computer information systems.

CSC 110 Programming Fundamentals (3) i, ii. An introductory course on the basic concepts of computer science and programming. Students learn to develop a structured approach to the design and implementation of a program using the BASIC programming language and microcomputers. Other topics covered include the fundamentals of computer architecture, algorithm development, and number systems. Credit in this course will not meet requirements toward a degree in computer science or computer information systems. (This course will not be accepted as a computer science elective for CSC or CIS degree programs.) Prerequisite: One year of high school algebra or MAT 190 or higher with a grade of C or better. Not open to students with credit in CSC 184 or higher.

CSC 120 Microcomputer Applications (3) (on demand). A follow-up course to Computer Literacy in which more advanced applications of prewritten software will be investigated. This course is designed to provide more experience with microcomputers and microcomputer software. In addition to prewritten software, MS/DOS is also covered. This course does not fulfill the degree requirements for either computer science or computer information systems. Prerequisite: CSC 100. Not open to students with credit in CSC 285.

CSC 184 Computing Concepts I (3) i, ii, iii. Introduction to problem solving, algorithm development and structured design techniques. Emphasis is on program development utilizing the Pascal programming language. Prerequisite: Two years of high school algebra or MAT 095 with grade of C or better and one year of high school computer programming or CSC 110 with a grade of C or higher. CREDIT BY EXAMINATION IS ENCOURAGED FOR THOSE STUDENTS ALREADY PROFICIENT IN PASCAL PROGRAMMING..

CSC 186 COMPUTING CONCEPTS II (3) I, II. This course introduces the C programming language. Topics include the syntax and methods of programming in C, the development of structured programs and an exploration of algorithm development. The course emphasizes the concepts of program modularity and data abstraction. Prerequisite: CSC 184 with a grade of C or better plus credit or concurrent enrollment in MAT 112 or MAT 116 or higher.

CSC 188 FORTRAN Programming (3) i. Introduction to the structure and facilities of FORTRAN (FORmula TRANslation) programming. Prerequisite: MAT 112 or MAT 116, or equivalent.

CSC 200 Microcomputers and Computer Networking (3) i. Elementary through advanced features of the MS-DOS operating system. Emphasis is placed on hard disk management. Related topics of microcomputer security, networking, Windows, OS/2, and microcomputer architecture are also discussed. (MS-DOS and OS/2 are registered trademarks of the MICROSOFT Corporation). (This course will not be accepted as a computer science elective for CSC major or minor.)

CSC 208 Discrete Structures (3) i, ii. (Same as MAT 208). This course is a study of mathematical reasoning including the nature and methods of proof, relations and functions, combinatorics and graph theory, Boolean Algebra, and applications of these topics. Attention will be given to the direct applications to computer science. Prerequisite: CSC 184 with a grade of C or better plus credit or concurrent enrollment in MAT 177 or equivalent.

CSC 245 COBOL Programming (3) i, ii. Introduction to the structure and facilities of COBOL (Common Business Oriented Language) programming using structured programming techniques. Prerequisite: CSC 184 or CSC 110.

CSC 284 Assembly Language Programming (BAL) (3) i, ii. This course is an investigation of the logical basis of a particular computer from the programmer's viewpoint. Machine representation of numbers and characters, instruction formats, machine operations and addressing techniques will be covered. Prerequisite: CSC 186 or CSC 245 with a grade of C or better.

CSC 285 Data Structures (3) i, ii. A continuation of CSC 186. Topics include algorithm analysis and the implementation of stacks, queues, linked list, trees, and other data structures. Principles of data abstraction are emphasized throughout the course. Prerequisite: CSC 186 with a grade of C or better plus MAT 112 or MAT 116 or higher with a grade of C or better.

CSC 345 Advanced COBOL Applications (3) i, ii. Application programming emphasizing sequential and indexed sequential file maintenance, multi-level indexed and subscripted tables, error routines, and subroutines. Structured techniques, programming style, and program maintainability are stressed. Prerequisite: CSC 245 with grade of C or better.

CSC 384 Microcomputer Assembly Language (3) i (even numbered years). Assembler language level programming for the Intel 8088 microprocessor. Symbolic machine instruction, assembly instruction, segmentation, addressing modes, subprograms, and modular programming will be the major topics covered. Prerequisite: CSC 284.

CSC 385 Advanced Data Structures (3) i. This course covers advanced theories of data organization and algorithm development, including their applications to selected problems. Prerequisite: CSC 208 and CSC 285 with a grade of C or better.

CSC 386 Operating Systems Concepts (3) 11. This course is an introduction to operating system principles. Topics include processor management, real and virtual storage management, device management and scheduling, multiprocessing, concurrent programming, and other topics related to operating systems. The course also includes a survey of major operating systems. Prerequisite: CSC 284 and CSC 285 with a grade of C or higher..

CSC 388 Operations Research (3) i. An introduction to operations research techniques; linear programming, integer programming, branch and bound techniques, scheduling problems, and inventory control. Prerequisite: CSC 285 with a grade of C or better and one course selected from MAT 132 or GBA 210 or concurrent enrollment in MAT 332.

CSC 395 Data Base Processing (3) i. An introduction to database design, fundamentals, developmental processes, I/O and files organization, data structures, and logical design, with an emphasis on the relational model. Prerequisite: CSC 285 with a grade of C or better.

CSC 400 Systems Analysis and Design (3) ii. Study of structured systems development. Emphasis on strategies and techniques of structured analysis and structured design for producing logical methodologies for dealing with the development of information systems. Prerequisite: CSC 245 plus 9 credit hours of computer science courses excluding CSC 100 and CSC 120.

CSC 418 Simulation and Modeling (3) ii (odd-numbered years). An introduction to computerized simulations. Focus is on the architecture and development of time-step and event-sequenced models used extensively by industry and government. Other topics include process generators for random events, the development of computerized games for management training, and current simulation research. Prerequisite: CSC 285 and either MAT 332 or both MAT 137 and GBA 210.

CSC 420 Expert Systems (3) ii (even-numbered years) Introduction and application of knowledge-based expert systems, a segment of artificial intelligence. Topics include knowledge representation, languages, shells, and knowledge engineering. Expert systems will be built using shells available for microcomputers. Prerequisite: 12 hours of Computer Science courses numbered 184 or higher.

CSC 428 Computer Graphics (3) ii (even-numbered years). A course in the techniques for picture transformation, curve and surface approximation; study and implementation of graphical languages and data structure; organization of graphical systems; use of the microcomputer as tools for displaying graphical data. Prerequisite: CSC 285 and either MAT 137 or MAT 167.

CSC 430 Advanced Topics In Computer Information Systems (3) ii (odd-numbered years). Explores selected emerging business-oriented issues and methods in the field of Computer Information Systems. Prerequisite: Twelve (12) credit hours of computer science courses plus consent of the instructor.

CSC 440 Advanced Topics in Computer Science (3) ii (even-numbered years). Explores selected emerging scientific-oriented issues and methods in the field of Computer Science. Prerequisite: CSC 285 plus consent of instructor.

CSC 470 Introduction to Computer Architecture (3) i. A study of computer architectures and structures from the classical Von Neumann machines to the state of the art computer organizations such as array, pipeline, and associative processors. Includes topics on such areas as hardware components; instruction set design; memory systems and hierarchies; control units and micro-codes; ALU's parallelism and concurrency; and telecommunications. Prerequisite: CSC 208 and CSC 284 and CSC 285.

CSC 484 Compiler Theory (3) ii (odd numbered years) An introduction to the basic structures of compilers and their design. Course topics include computer language structure, translation/recognition techniques of lexical analysis, parsing and syntax-directed translation. The course will also consider the impact of run-time environments on the design of computer languages and the constraints of code optimization on code generation. A small compiler will be developed. Prerequisite: CSC 284 and credit or concurrent enrollment in CSC 385.

Mathematics Courses

MAT 090 Beginning Algebra (3) i, ii, iii. Reviews basic topics in arithmetic and algebra. Arithmetic topics include operations on the natural numbers, integers, fractions and decimals. Algebra topics include addition, subtraction, multiplication, division and factoring of elementary expressions of one variable, polynomials, rational expressions, the solutions and graphing of simple linear equations and applications to geometry. (Not open to the student with credit in mathematics courses numbered above 100; may not be taken concurrently with any other mathematics course; hours do not count toward graduation requirements.)

MAT 095 Intermediate Algebra (3) i, ii, iii. Review of elementary algebra including the algebra of polynomials, linear equations, quadratic equations, systems of three equations, linear inequalities, integer and rational exponents, factoring, and graphs of lines and conic sections. Prerequisite: One year of high school algebra or a grade of C or better in MAT 090 or equivalent. (Not open to the student with credit in MAT 116 or higher; may not be taken concurrently with any other mathematics course; hours do not count toward graduation requirements.)

MAT 112 Finite Mathematics (3) i, ii. Probability and linear mathematical methods applied in business and the social and life sciences. Prerequisite: Two years of high school algebra or a grade of C or better in MAT 095 or equivalent. (Not open to student with credit in MAT 167.)

MAT 116 College Algebra (3) i, ii, iii. Linear, quadratic, and miscellaneous equations and inequalities; relations and functions including polynomial, exponential, and logarithmic functions; graphing; systems of equations and inequalities; matrices and determinants; sequences and series. Prerequisite: Two years of high school algebra or a grade of C or better in MAT 095 or equivalent. (Not open to the student with credit in MAT 167 or MAT 130.)

MAT 119 Trigonometry (2) i, ii. Trigonometric functions, trigonometric identities, trigonometric equations, logarithms, solution of triangles, inverse trigonometric functions. Prerequisite: MAT 095 or equivalent. (Not open to the student with credit in MAT 177 or MAT 130.)

MAT 130 Pre-Calculus (5) i. Algebraic, trigonometric, exponential and logarithmic equations and inequalities; relations and functions in algebra and trigonometry; systems of equations and inequalities; matrices and determinants; introduction to discrete algebra; solutions of triangles; inverses of algebraic and trigonometric functions, trigonometric identities; introduction to analytic geometry. Prerequisite: Two years of high school algebra or a grade of C or better in MAT 095 or equivalent. (Not open to any student with credit in MAT 147 or 167.)

MAT 132 Elementary Statistics (3) i, ii, iii. Basic course for students in natural sciences, 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 112, MAT 116, or equivalent.

MAT 137 Calculus in Business and the Non-Physical Sciences (4) ii. Differential and integral calculus applications in business and economics, life science and social science. Prerequisite: Grade of C or better in MAT 112, MAT 116 or equivalent. (Not open to the student with credit in MAT 147 or MAT 167.)

MAT 147 Applied Calculus I (4) i. An applied course in techniques of differentiation and integration; applications primarily from the technological fields; analytic geometry, functions, differential and integral calculus. Prerequisite: MAT 116 or equivalent (Not open to the student with credit in MAT 167.)

MAT 157 Applied Calculus II (3) ii. Differentiation and integration of trigonometric functions, partial derivatives and double integrals, Taylor Series, first- and second-order differential equations; applications primarily from the technological fields. Prerequisite MAT 119 and MAT 147, or equivalent. (Not open to the student with credit in MAT 177.)

MAT 167 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 130 or equivalent.

MAT 177 Calculus with Analytic Geometry II (5) i, ii. Continuation of MAT 167. Includes selected topics from analytic geometry and calculus. Prerequisite: Grade of C or better in MAT 167 or equivalent.

MAT 208 Discrete Mathematics (3) i, ii. (Same as CSC 208) This course is a study of mathematical reasoning including the nature and methods of proof, relations and functions, combinatorics and graph theory, Boolean Algebra, and applications of these topics. Attention will be given to the direct applications to computer science. Prerequisite: CSC 184 with a grade of C or better plus credit or concurrent enrollment in MAT 177, or equivalent.

MAT 287 Calculus with Analytic Geometry III (5) i, ii. Continuation of MAT 177. Selected topics from analytic geometry and calculus. Prerequisite: Grade of C or better in MAT 177 or equivalent.

MAT 301 Mathematical Modeling (3) i. An introduction to the modeling process including creative and empirical model construction, model analysis, and model research. Prerequisite: MAT 137 or 147 or 167 or the equivalent.

MAT 306 Linear Algebra (3) i. Vector spaces, linear transformations, matrix operations, determinants, matrix inversion, linear systems, eigenvalues, canonical forms. Prerequisite: MAT 208 or consent of instructor.

MAT 315 Topics in Geometry (3) i (odd-numbered years). Synthetic projective geometry; basic symbolic logic; mathematical systems and finite geometries; algebraic geometry; non-Euclidean geometry. Prerequisite: Credit or concurrent enrollment in MAT 306.

MAT 317 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 287 and 306 or consent of instructor.

MAT 332 Probability and Statistics (3) i. The theory of mathematical statistics; probability, distribution theory, and point estimation. Prerequisite: MAT 208 or equivalent.

MAT 350 Mathematics for Elementary Teachers (5) i, ii. Structure, meanings, relationships, and logical reasoning for elementary mathematics; emphasizes the structure of mathematics taught in grades K-6. Prerequisite: MAT 112 or equivalent. (Not applicable to the major or minor in mathematics.)

MAT 351 Mathematics Methods in the Elementary School (2) i, ii. Methodologies, strategies, materials, and curriculum development in elementary school mathematics. Must be taken concurrently with MAT 350. Prerequisite: MAT 112 or equivalent. (Not applicable to the major or minor in mathematics.)

MAT 407 Advanced Calculus I (3) i. Elementary topological aspects of the real numbers, sequences, limits and continuity, differentiation, integration, and infinite series. Prerequisite: MAT 306 or equivalent.

MAT 416 Abstract Algebra (3) ii. Groups, rings, fields, and vector spaces; definitions and fundamental theorems; homomorphisms and isomorphisms; polynomials and field extensions. Prerequisite: MAT 306 or equivalent.

MAT 417 Numerical Analysis (3) ii. The solution of algebraic and transcendental equations; finite differences; interpolation, numerical differentiation, and integration; numerical solutions of ordinary differential equations. Prerequisite: MAT 306, and CSC 185 or equivalent.

MAT 432 Mathematical Statistics (3) ii (even-numbered years). A continuation of MAT 332 to include the theory and applications of estimation, hypothesis testing, regression and correlation, analysis of variance and nonparametric statistics. Prerequisite: MAT 332.

MAT 447 Advanced Calculus II (3) ii. A continuation of MAT 407. Includes vectors and curves, functions of several variables limits and continuity; differentiable functions, the inversion theorem, multiple integrals; line and surface integrals.

MAT 450 Independent Study in Mathematics (1-5). Investigates selected problems or topics on an individual conference basis. Prerequisite: Completion of the major-minor application form, minimum 2.5 GPA in the major field of study, and consent of department chairperson.

MAT 462 Number Theory (1) i (even-numbered years). Study of divisibility, primes, congruencies, Diophantine equations, arithmetic functions, partitions, Fibonacci numbers, and continued fractions. An independent method of study will be used. Prerequisite: MAT 208

MAT 463 History of Mathematics (1) i (even-numbered years). Study of the origins, philosophy and development of mathematics. An independent method of study will be used. Prerequisite: MAT 208.

MAT 465 Mathematics Teaching: Methods and Materials (2) i (even-numbered years). Techniques, materials, and resources used in the mathematics curriculum in secondary schools. Prerequisite: SED 303 or equivalent.

MAT 470 Seminar in Mathematics (3) ii (odd-numbered years). Selected topics in mathematics. Prerequisite: Consent of department chairperson (may be repeated for credit.)

Physics Courses

PHY 101 Concepts and Principles of Physics (4) i, ii, iii. Comprehensive treatment of the concepts and laws of physics using a nonmathematical approach. Three hours lecture-demonstration, two hours lab. (Not open to students with credit in PHY 110 or PHY 210.)

PHY 104 Introduction to Astronomy (4) i, ii. Basic course in astronomy, mostly descriptive in nature; solar system, stellar astronomy, structure of galaxy and universe. Three hours lecture plus 2 hours lab.

PHY 110 College Physics I (5) i, ii Classical treatment of mechanics, waves, energy, heat, electricity, magnetism, and optics. Four hours lecture, three hours lab. Prerequisite: MAT 116 or consent of instructor. (Not open to students with credit in PHY 210.)

PHY 111 College Physics II (3) ii. Relativity, atomic physics, and nuclear physics. Two hours lecture, three hours lab. Prerequisite: PHY 110 or consent of instructor.

PHY 210 University Physics I (5) i. Calculus-level mechanics, sound, and thermodynamics. Four hours lecture, three hours lab. Prerequisite: MAT 167.

PHY 211 University Physics II (5) ii. Calculus-level electricity, magnetism, waves, optics, and elementary modern physics. Four hours lecture, three hours lab. Prerequisite: Credit or current enrollment in MAT 177; PHY 210.

PHY 312 University Physics III (3) i. Calculus-level modern physics. Three hours lecture. Prerequisite: PHY 211.

PHY 313 Modern Physics Laboratory (1) i (odd numbered years). Experiments in modern physics selected to supplement the lecture material presented in PHY 312. Three hours laboratory. Prerequisite: PHY 312 or concurrent enrollment.

PHY 320 History of Physics (3) ii (even-numbered years). Comprehensive discussion of chronological development of concepts in classical and modern physics. Prerequisite: PHY 312 or consent of instructor.

PHY 410 Selected Topics in Physics (3) i, ii (odd numbered years). Presentation of one of the following topics: 01-mathematical physics; 02-classical mechanics; 03-thermodynamics; 04-electricity and magnetism; 05-optics; 06-quantum mechanics; 07-astrophysics; 08-solid state physics; 09-nuclear and particle physics. Three hours lecture. Prerequisites: PHY 312, MAT 317, and consent of instructor. (Course may be repeated for credit, topic may not be repeated for credit.)

PHY 465 Physics Teaching: Methods and Materials (2) (even-numbered years). Techniques, materials, and equipment used in teaching physics in secondary schools. Prerequisite: PHY 312 or consent of instructor.

PHY 470 Research Seminar in Physics (1-3) i, ii. Student presentation of the results of investigative research in physics. Prerequisite: PHY 312 and consent of research advisor. (May be repeated for credit, maximum of three credits.)

Department of English, Foreign Language and Journalism

Dr. J. Frick, *Chairperson*

The Department of English, Foreign Languages and Journalism offers major programs in English, French and Spanish leading to the Bachelor of Arts degree and the Bachelor of Science in Education degree. The majors in French and Spanish are offered in cooperation with Northwest Missouri State University. Minor programs are also offered in English, French, German, Spanish, and journalism.

In its various programs and offerings, the Department of English, Foreign Languages and Journalism works toward four goals: (1) an improvement of communication skills through practice in diverse types of expository and imaginative writing; (2) a development of critical thinking through exposure to and interpretation of the various world views offered in literary works; (3) an increased appreciation of literature, its backgrounds, history, and values through an analysis and discussion of authors and literary works covering a wide range of attitudes, perspectives, and expressions; (4) a deeper understanding of one's own culture and a tolerance and acceptance of things foreign through a study and appreciation of another language and culture.

In all of its programs, the department encourages its students to grow in self-knowledge and the knowledge of others through its emphasis on the humane and liberal characteristics of its offerings.

Bachelor of Arts Degree Requirements

The BA requires 16 credits in a single foreign language.

Major in English, Public Relations Emphasis

The Bachelor of Arts degree in English with a public relations emphasis is designed for students interested in entering business or seeking careers such as public relations work which demand a knowledge of and proficiency in communication skills.

The requirements for a Bachelor of Arts degree in English with a public relations emphasis include the satisfactory completion of the following courses for a total of 45 credits: ENG 224 or 338, 232, 310 or 312, 360 or 362, plus an additional 3-credit literature course numbered above 300; JOU 104 or 304, 200, 202, 302, 303, 308, 316, 322; COM 310, 410. Also recommended is the following core of Business/Marketing courses: ECO 260 and 261; plus 12 credits from GBA 210, MKT 301, 311, 381, 401, 481. The student will also be required to take the following General Studies courses: ENG 104, 108 or 112, and 210. In consultation with the academic advisor, the student will prepare a portfolio which includes a resume, a cover letter, and writings from majors courses.

Major in English, Technical Communications

The Bachelor of Arts degree in English with an emphasis in technical communications is designed for students interested in working as technical writers and/or communications specialists in large organizations.

The requirements for a Bachelor of Arts degree in English with a technical communications emphasis include the satisfactory completion of the following courses for a total of 45 credits: ETC 200, ENG 224, ENG 232, JOU 200, JOU 202, an English literature course numbered 300 or above, ENG 322, ETC 324, ENG 310 or 312, ENG 360 or 362, ETC 316, ETC 326, JOU 308; plus six additional hours from among the following courses: an English literature course numbered 300 or above, COM 310, COM 410, JOU 302, JOU 304, COM 336, COM 337, ETC 450, ACC 230, ECO 261, MKT 301, MGT 312 (students are encouraged to minor in business). The student will also

be required to take the following General Studies courses: ENG 104, 108 or 112, and 210. In consultation with the academic advisor, the student will prepare a portfolio which includes a resume, a cover letter, and writings from majors courses.

Major in English, Literature Emphasis

The Bachelor of Arts degree in English with a literature emphasis is a broad-based program providing students with a wide perspective on literature, language, and world views. The program prepares students to pursue graduate work in English or related disciplines, or to enter areas of the business/professional community seeking people with a broad liberal education.

The requirements for a Bachelor of Arts degree in English with a literature emphasis include the satisfactory completion of the following courses for a total of 45 credits: ENG 224, 232, 310, 312, 316 or additional course in literature numbered above 300, 332, 360, 362, 368, 390 or 426 or 478, 420 or 422, 484, 488; two British literature courses numbered 300 or above. The student will also be required to take the following General Studies courses: ENG 104, 108 or 112, and 210. Students must also complete the ETS English Literature Examination during the semester before graduation.

Major in English, Writing Emphasis

The Bachelor of Arts degree in English with an emphasis in writing concentrates on the imaginative, expository, and journalistic modes of written discourse. Students interested in pursuing graduate work emphasizing writing, or seeking employment with companies or businesses demanding proficiency in written communication skills, are advised to select this program. Students interested in journalistic writing are also encouraged to minor in journalism. Such students should consult the journalism faculty for advisement.

The requirements for a Bachelor of Arts degree in English with a writing emphasis include the satisfactory completion of the following courses for a total of 45 credits: ENG 224, 232, 248, 310 or 312, ENG 316 or JOU 316, ENG 322 or JOU 322, ENG 338, 360 or 362, 364; JOU 200, 202, 302, JOU 314 or ENG 484; two additional literature courses numbered above 300. The student will also be required to take the following General Studies courses: ENG 104, 108 or 112, and 210. In consultation with the academic advisor, the student will prepare a portfolio which includes a resume, a cover letter, and writings from majors courses.

Major in French

The Bachelor of Arts degree in French is designed for students who wish to use their extensive knowledge of French in a business setting or to enter graduate school in French upon graduation.

The requirements for a Bachelor of Arts degree in French include the satisfactory completion of the following courses for a total of 38 credits: FRE 102, 112, 202, 212, 300 (repeated once for a total of 8 hours), FRE 205 or 305, FRE 206 or 306, FRE 207 or 307, and these courses offered through a cooperative program with Northwest Missouri State University: FL434 Survey of Literature in French I (3 credit hours) and FL435 Survey of Literature in French II (3 credit hours.) (Students enroll with NWMSU and must pay the appropriate NWMSU tuition for these two courses.) A recognized minor as listed in the MWSC catalog is required. Interested students should apply through the chairperson of the MWSC Department of English, Foreign Languages, and Journalism. Students may not take courses requiring FRE 212 as a prerequisite without first achieving a score of 175 or higher on the Modern Language Testout in French.

Major in Spanish

The Bachelor of Arts degree in Spanish is designed for students who wish to use their extensive knowledge of Spanish in a business setting or to enter graduate school in Spanish upon graduation.

The requirements for a Bachelor of Arts degree in Spanish include the satisfactory completion of the following courses for a total of 38 credits: SPA 102, 112, 202, 212, 300 (repeated once for a total of 8 hours), SPA 248 or 348, SPA 250 or 350, SPA 252 or 352, and these courses offered through a cooperative program with Northwest Missouri State University: FL444 Spanish American Literature (3 credit hours) and FL445w Medieval and Golden Age Literature of Spain (3 credit hours.) (Students enroll with NWMSU and must pay the appropriate NWMSU tuition for these two courses.) A recognized minor as listed in the MWSC catalog is required. Interested students should apply through the chairperson of the MWSC Department of English, Foreign Languages, and Journalism. Students may not take courses requiring SPA 212 as a prerequisite without first achieving a score of 175 or higher on the Modern Language Testout in Spanish.

Bachelor of Science In Education Degree Requirements

Major in English

The Bachelor of Science in Education degree program leads to certification to teach English in the secondary schools. Students who pursue this program should consider teaching their immediate career goal.

The requirements for a Bachelor of Science in Education degree with a major in English include the satisfactory completion of the following courses for a total of 45 credits: ENG 224, 232, 310, 312, 332, 360, 362, 364, 365, 368, 400, 465, 484, 488; two additional literature courses numbered 300 or above. Students must also complete the NTE's Examination in English Language and Literature. To be certified as a teacher, the student must receive a passing score, as determined by the Missouri Department of Elementary and Secondary Education, on the NTE's Examination in English Language and Literature. The student will also be required to take the following General Studies courses: ENG 104, 108 or 112, and 210.

Major in French

The Bachelor of Science in Education degree in French leads to certification to teach French in the secondary schools. Students who pursue this program should consider teaching their immediate career goal.

The requirements for a Bachelor of Science in Education degree in French include the satisfactory completion of the following courses for a total of 40 credits: FRE 102, 112, 202, 212, 300 (repeated once for a total of 8 hours), FRE 301, FRE 205 or 305, FRE 206 or 306, FRE 207 or 307, and these courses offered through a cooperative program with Northwest Missouri State University: FL434 Survey of Literature in French I (3 credit hours) and FL435 Survey of Literature in French II (3 credit hours.) (Students enroll with NWMSU and must pay the appropriate NWMSU tuition for these two courses.) May not take courses requiring FRE 212 as a prerequisite without first achieving a 175 or higher on the Modern Language Testout in French following completion of FRE 212. Demonstrate oral proficiency skills in French by testing at the Intermediate High level on the American Council on the Teaching of Foreign Languages' Oral Proficiency Interview. Receive a passing score, as determined by the Department of Elementary and Secondary Education, on the NTE's Examination in French. Interested students should apply through the chairperson of the MWSC Department of English, Foreign Languages, and Journalism.

Major in Spanish

The Bachelor of Science in Education degree in Spanish leads to certification to teach Spanish in the secondary schools. Students who pursue this program should consider teaching their immediate career goal.

The requirements for a Bachelor of Science in Education degree in Spanish include the satisfactory completion of the following courses for a total of 40 credits: SPA 102, 112, 202, 212, 300 (repeated once for a total of 8 hours), SPA 301, SPA 248 or 348, SPA 250 or 350, SPA 252 or 352, and these courses offered through a cooperative program with Northwest Missouri State University: FL444 Spanish-American Literature (3 credit hours) and FL445 Medieval and Golden Age Literature of Spain (3 credit hours.) (Students enroll with NWMSU and must pay the appropriate NWMSU tuition for these two courses.) May not take courses requiring SPA 212 as a prerequisite without first achieving a 175 or higher on the Modern Language Testout in Spanish following completion of SPA 212. Demonstrate oral proficiency skills in Spanish by testing at the Intermediate High level on the American Council on the Teaching of Foreign Languages' Oral Proficiency Interview. Receive a passing score, as determined by the Department of Elementary and Secondary Education, on the NTE's Examination in Spanish. Interested students should apply through the chairperson of the MWSC Department of English, Foreign Languages, and Journalism.

Minor Programs In English, Journalism, and Foreign Languages

In addition to the major programs in English, French and Spanish and English, French and Spanish education, the Department of English, Foreign Languages and Journalism offers minors in English, journalism, French, German, and Spanish.

Minor in English, Literature Emphasis

The minor in English provides students with an opportunity to broaden their understanding and appreciation of literature and culture, and to improve their communication skills. As such, the minor is a valuable asset to those seeking careers in the professional or business world.

The requirements for a minor in English include the satisfactory completion of the following courses for a total of 21 credits: ENG 224, 310 or 312, 360 or 362, 368, 420 or 422; two British literature courses numbered above 300.

Minor in English, Education Emphasis

Structured to meet the requirements for teacher certification, the following minor in English is specifically offered to prepare students to teach English in grades 7 through 12.

The requirements for the minor in English include the satisfactory completion of the following courses for a total of 27 credits: ENG 224, 232, 310 or 312, 334, 360 or 362, 400, 465; additional 3-credit American literature course; additional 3 credit British or world literature course.

Minor in English Technical Communications

The minor in English Technical Communications is designed for students of all disciplines who are interested in combining strong writing capability with their profession. The minor creates technical writers and communication specialists for business, corporate and professional worlds.

The requirements for a minor in English Technical Communication include the satisfactory completion of the following courses for a total of 21 hours: ETC 200, JOU 202, ENG 322, ETC 324, ETC 316, ETC 326, JOU 308. Strongly recommended courses are ENG 224 and ENG 232.

Minor in Journalism

The requirements for the minor in journalism include the satisfactory completion of 25 credits in journalism. Students must complete 22 credits from the following courses: JOU 104, 200, 202, 210 or 212, 302, 303, 304, 308, 310 or 312. No more than four total credits of JOU 210/212 and/or JOU 310/312 will be counted toward the journalism minor. Journalism students are encouraged to develop proficiency in typing and photography early in their academic careers.

Minor in French

The requirements for the minor in French include the satisfactory completion of the following courses for a total of 24 credits: FRE 102, 112, 202, 212, 300 (two semesters).

Minor in German

The requirements for the minor in German include the satisfactory completion of the following courses for a total of 24 credits: GER 102, 112, 202, 212, 300 (two semesters).

Minor in Spanish

The requirements for the minor in Spanish include the satisfactory completion of the following courses for a total of 24 credits: 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 credits in the language to be taught or 27 credits plus 2 or more earned units of high school credit in that language in addition to two credit hours of foreign language teaching methodology. State certification to teach foreign language in grades K-9 in Missouri requires 21 credits in the foreign language to be taught or 18 credits plus 2 or more earned units of high school credit in that language.

Teacher Certification In Journalism

State certification to teach Journalism in grades 7-12 in Missouri requires 21 credits for an extended certificate. This option is open only to students obtaining full teaching certification in another area as a major.

Extended Certificate

Credits

JOU 200 Principles of Journalism and Mass Media (i)	3
JOU 202 Basic News Reporting (i)	3
JOU 303 Media law and Ethics (ii) (odd years)	3
JOU 308 Copy Editing (i) (odd years)	3
JOU 314 Special Topics in Journalism: Scholastic Publications (iii)	3
Additional Journalism electives from the following:	6
JOU 210 Journalism Lab: Newspaper Production (i, ii)	
JOU 212 Journalism Lab: Yearbook/Magazine Production (i, ii)	
JOU 302 Advanced Reporting (ii)	
JOU 310 Journalism Lab: Newspaper Production Management (i, ii)	
JOU 312 Journalism Lab: Yearbook/Magazine Production Management (i, ii)	
JOU 316 Internship in Journalism (i, ii, iii)	
JOU 322 Organizational and Public Relations Writing	

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Cognate Field In English

For students who have completed associate degree programs, the department provides a cognate field in English, with specialization in Journalism or Writing, which will lead to the Bachelor of Science in Technology Degree. Cognate field in English, Option 1, Journalism Specialization: JOU 200, 202, 302, 314, 104 or 304, 303, 322, ENG 224 or 338, JOU 210 or 212, and 316. Option 2, Writing Specialization: Eng 224, 232, JOU 202, 302, 322, ENG 248 or JOU 104, ENG 338, JOU 303, 314, and 316.

English Composition and Language Courses

ENG 100 Introduction to College Writing (3) i, ii, iii. Instruction in reading and writing open to any student, but mandatory for those students who do not score satisfactorily on the English Department's Writing Placement Exam. Does not fulfill the English composition requirement for baccalaureate and associate degrees. Prerequisite: Completion of the department's placement exam. (See class schedule for test administration dates.)

ENG 104 College Writing and Rhetoric (3) i, ii, iii. Instruction in reading and writing; emphasizes expository prose. Fulfills first half of the General Studies requirement in English composition. Prerequisite: Successful completion of ENG 100 or satisfactory score on the department's Writing Placement Examination. (See class schedule for test administration dates.)

ENG 108 College Writing and Research (3) i, ii, iii. Instruction in reading various literary genres and continued practice in writing. Fulfills second half of the General Studies requirement in English composition. Prerequisite: A grade of C or higher in ENG 104.

ENG 112 Honors Composition and Rhetoric (3) i. An enriched course open to students who pass the Writing Placement Examination administered by the Department of English, Foreign Languages and Journalism and who score above the 90th percentile in English on the ACT using national norms. This course fulfills the English composition requirement for basic skills in general studies for four-year degree programs.

ENG 224 Advanced Composition and Literature (3) i. Required for English majors and minors. An advanced expository writing course designed to improve the ability to write clearly and effectively. Explores a variety of structural forms and rhetorical strategies. Prerequisite: ENG 108 or 112.

ENG 232 Language Awareness (3) i. Emphasis on the important principles of language with a focus on the vocabulary, manipulation of words in context, analysis of grammatical systems, the patterns of usage and the dialects of American English. Required of English majors, minor in English, education emphasis. Prerequisite: ENG 104 or consent of instructor.

ENG 316 Internship in English (2-6) i, ii, iii. Practical application of skills in reading, writing, and analytical thinking at a business concern or agency; correlates academic preparation with professionally supervised work experience (thirty clock hours of work for each credit). May be repeated for a total of 12 credits. Prerequisite: junior or senior standing and consent of faculty coordinator and department chairperson.

ENG 322 Organizational and Public Relations Writing (3) ii. A workshop course for business and professional people, English majors with a writing, technical communications, or public relations emphasis, and journalism minors. Emphasis on audience analysis, writing, editing, designing, and producing organizational and public relations documents. Prerequisite: ENG 108, JOU 202, and also recommended concurrent enrollment in or completion of JOU/ETC 326.

ENG 332 History of English Language (3) ii (odd-numbered years). Growth and structure of the English language. Prerequisite: ENG 232 or consent of instructor.

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 total of 6 credits. Prerequisite: ENG 108 or 112.

ENG 364 Introduction to Composition Theory (3) Introduction to the basic theories of composition. Prerequisite: Completion of ENG 224 and junior standing.

English Technical Communications Courses

ETC 200 Introduction to Technical Publication (3) i. Workshop emphasizing shorter forms of technical writing. The course stresses form, composition, and word processing. Students are introduced to desktop capabilities—graphics, style, format, and layout. They will also apply appropriate software for completing work professionally. All work evolves through a flexible, recursive process. Prerequisite: ENG 108 or 112.

ETC 316 Internship in Technical Communications (2-6) i, ii, iii. Practical application of technical and organizational communication skills in a professional setting; correlates academic preparation with supervision in a work experience (thirty clock hours of work for each credit). May be repeated for a total of 12 credits. Prerequisite: junior or senior standing and consent of faculty coordinator and department chairperson.

ETC 324 Writing in the Technical World (3) ii. Study of communication assignments likely to be encountered by entry-level professionals in various technological settings. Students will practice communication requiring careful on-the-job analysis, planning, preparation, writing and editing. Cases will be used to demonstrate the crucial interaction of elements such as writer's professional role, the audience, the technical and managerial problem, the available information and the communications assignments. Prerequisite: ENG 108 or 112.

ETC 326 Desktop Publishing (3) i, ii. A workshop course involving design and production of attractive and effective advertisements, brochures and fliers, correspondence, newsletters, and manuals using desktop publishing equipment McIntosh Plus or SE computers, Apple laser printers and software to include Microsoft Word, Aldus Pagemaker, and other graphic design programs. Prerequisite: ETC 200 or consent of instructor.

ETC 450 Independent Study in Technical Communications (1-5). Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form in English, minimum 2.5 GPA in major field of study, and consent of department chairperson.

English Education Courses

English education courses may not be used to fulfill any requirement for the Bachelor of Arts degree with a major in English.

MUS 108 Basic Keyboard Skills II (2) ii. Primary chord structures and harmonization, simple accompaniment patterns, reading skills, scale structures. Prerequisite: MUS 106 or consent of instructor.

MUS 205 Musicianship III (4) i. Continuation of MUS 107. An historical approach to compositional techniques through analysis and original composition; includes music reading/aural recognition. Prerequisite: MUS 107.

MUS 206 Keyboard Proficiency I (2) i. Keyboard harmony, harmonization of folk melodies, sight-reading, scale structure, transposition, simple accompaniment, elementary repertoire; completion of proficiency examination for instrumental majors. Prerequisite: MUS 107 and 108 or consent of instructor.

MUS 207 Musicianship IV (4) ii. Continuation of MUS 205. Study of the music of late nineteenth century through analysis and original composition; includes music reading/aural recognition. Prerequisite: MUS 205.

MUS 208 Keyboard Proficiency II (2) ii. Advanced harmonic progressions, intermediate-level accompaniments, transposition of simple accompaniment, open-score reading, intermediate repertoire, scale and arpeggio techniques; completion of proficiency examination for B.S. in Ed.-Vocal Emphasis majors. Prerequisite: MUS 206 or consent of instructor.

MUS 210 Introduction to Computer Music Applications (1) i, ii, iii (on demand). A seminar course designed to introduce the student to the hardware/software applications available in the Art/Music Computer Laboratory. Prerequisite: MUS 105 or consent of instructor.

MUS 220 Music for the Elementary Classroom Teacher (3) i, ii. Basic music for the elementary education major incorporating music appreciation and use of music in the teaching of basic skills. Prerequisite: EED 202, 203.

MUS 240 Chamber Music Performance: Brass (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with brass instruments. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 241 Chamber Music Performance: Keyboard (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with keyboard instruments. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 242 Chamber Music Performance: Percussion (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with percussion instruments. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 243 Chamber Music Performance: Strings (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with string instruments. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 244 Chamber Music Performance: Voice (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with voice. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 245 Chamber Music Performance: Woodwinds (1-2) i, ii. Study through performance in musical literature and performance practices as they relate to chamber music with woodwind instruments. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 304 Form and Analysis (2) i. The elements, harmonic content and formal structures of music; historical development. Prerequisite: MUS 101 and 207.

MUS 305 Conducting (2) i. Basic conducting techniques: patterns, cueing, left hand independence; conducting legato, staccato, and marcato styles. Prerequisite: MUS 207.

MUS 310 History of Music: Ancient to Baroque (3) i. Musical styles and techniques, from primitive music to Baroque. Prerequisite: MUS 101, 207.

MUS 311 History of Music: Classical to Modern (3) ii. Musical styles and techniques, from classical to modern. Prerequisite: MUS 101, 207.

MUS 312 Topics in Music Literature: Chamber (1-2) i, ii. Study through research in music literature and performance practices as they relate to chamber music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 313 Topics in Music Literature: Choral (1-2) i, ii. Study through research in music literature and performance practices as they relate to choral music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 314 Topics in Music Literature: Piano (1-2) i, ii. Study through research in music literature and performance practices as they relate to piano music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 315 Topics in Music Literature: Organ (1-2) i, ii. Study through research in music literature and performance practices as they relate to organ music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 316 Topics in Music Literature: Percussion (1-2) i, ii. Study through research in music literature and performance practices as they relate to percussion music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 317 Topics in Music Literature: Solo Instrument (1-2) i, ii. Study through research in music literature and performance practices as they relate to solo instrument music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 318 Topics in Music Literature: Solo Voice (1-2) i, ii. Study through research in music literature and performance practices as they relate to solo vocal music. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 320 Elementary Music Methods and Materials (3) i. Overview of methods and materials for teaching of music in grades K-6. For students majoring in music education. Prerequisite: MUS 105 or EED 202, 203 and ability to read music.

MUS 321 Orff, Kodály, and Laben (2) ii (odd-numbered years). Introduction to the educational processes involved in teaching music K-8, using the contemporary methods of Orff, Kodály, and Laben. Prerequisite: MUS 220 or 320.

MUS 322 General Music Activities (2) ii (even-numbered years). Developing and sequencing music skills and concepts in grades K-12 through increasing levels of cognitive abilities. Prerequisite: MUS 220 or 320.

MUS 325 Marching Band Techniques (1) i (on demand). Materials and ideas in marching band techniques. Prerequisite: MUS 145.

MUS 326 Instrument Care and Repair (1) ii (on demand). 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 132, 134, 230, 232.

MUS 404 Twentieth-Century Techniques (2) ii. The study of the compositional techniques and forms in tonal, atonal and the avant-garde music of the twentieth century. Prerequisite: MUS 304.

MUS 405 Arranging (2) ii. Various combinations of instruments and voices: includes a major project in the student's area of interest. Prerequisite: MUS 207.

MUS 406 Composition (1-2) i, ii. Private lessons in composition. Half-hour weekly lessons for each credit. The special fee for applied music is assessed for this course. May be repeated for credit. Prerequisite: Consent of instructor.

MUS 410 Topics in Computer Music Applications (1-2) i, ii, iii (on demand). An advanced seminar course designed to study selected topics in the field of computers and music. May be repeated for credit. Prerequisite: MUS 210 or consent of instructor.

MUS 420 Secondary Choral Methods and Materials (3) ii. Problems and techniques of teaching choral music in junior and senior high schools; study of choral literature; performance practices; choral conducting with laboratory experiences. Prerequisite: MUS 305.

MUS 421 Secondary Instrumental Methods and Materials (3) ii. Organization and implementation of instrumental music programs in junior and senior high schools; problems, methods, conducting, and rehearsal techniques with laboratory experiences. Prerequisite: MUS 305.

MUS 450 Independent Study in Music (1-5). Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of the major-minor application form in music, minimum 2.5 GPA in the major field of study, and consent of Department Chairperson.

Required Core Courses

	<i>Credits</i>
PSY 101 General Psychology	3
PSY 200 Intermediate Psychology	3
PSY 300 Psychological Statistics & Measurements	3
PSY 301 Experimental Psychology	3
PSY 302 Experimental Psychology Laboratory	2
PSY 430 History and Systems in Psychology	3
PSY 490 Senior Seminar	2
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Restricted Elective Core Courses

The student must take at least two courses (6 credits) from each of the following restricted elective core groupings.

Natural Science core

PSY 335 Learning	
PSY 345 Animal Behavior	
PSY 350 Physiological Psychology	
PSY 355 Sensation and Perception	
PSY 360 Motivation and Emotion	
PSY 415 Intermediate Statistics for the Behavioral Sciences	
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Social Science core

PSY 305 Psychology of Communication	
PSY 310 Industrial/Organizational Psychology	
PSY 319 Child Psychology	
PSY 325 Psychology of Personality	
PSY 365 Social Psychology	
	<hr/> 6

Psychology Electives

The student must take an additional 6 credits of electives in Psychology. These electives may be chosen either from the remaining courses in the Natural or Social Science cores or from the other offerings in the catalog.

<i>Total credits for major</i>	<hr/> 37
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Personnel Psychology Emphasis

This program leads to a B.S. in Psychology with emphasis in personnel psychology. The program has the same required course core as the general major program in Psychology, with the addition of courses relevant to human resources. The personnel psychology program requires a minimum of 37 credits in psychology plus 15 credits in the cognate field of business.

This program is recommended for those students seeking employment in human resources, public relations, or other positions in business or industry where one works closely with employees or the public. It should be noted that the program does not provide technical training in personnel management, but rather a liberal arts background and preparation for on-the-job training.

Required Psychology Core Courses

	<i>Credits</i>
PSY 101 General Psychology	3
PSY 200 Intermediate Psychology	3
PSY 300 Psychological Statistics & Measurements	3
PSY 301 Experimental Psychology	3
PSY 302 Experimental Psychology Laboratory	2
PSY 490 Senior Seminar	2
	<hr/> 16

Personnel Psychology Core Courses

PSY 220 Health Psychology/Stress Management	3
PSY 305 Psychology of Communication	3
PSY 310 Industrial/Organizational Psychology	3
PSY 325 Psychology of Personality	3
PSY 365 Social Psychology	3
PSY 400 Psychological Testing & Assessment	3
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	18

Restricted Elective Core Courses

The student must take at least one course (3 hours) from the following restricted elective core courses.

PSY 250 Behavior Modification	
PSY 360 Motivation and Emotion	
PSY 415 Intermediate Statistics for the Behavioral Sciences	
PSY 420 Practicum in Psychology	
PSY 421 Practicum in Psychology	
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	21-22

Cognate Field

GBA 110 Introduction to Business	3
ACC 230 Principles of Financial Accounting	3
MKT 301 Principles of Marketing	3
MGT 312 Principles of Management	3
MGT 412 Human Resources Management	3
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	15

Total credits for major

52

Note: It is recommended that all students preparing for graduate school take PSY 430, since this is a requirement for entrance to many graduate schools.

Minor in Psychology

A minimum of 21 credits in Psychology is required. PSY 101 and 200 are required core course totaling 6 credits. The student must take at least one course from each of the restricted elective core groupings (Natural Science and Social Science) for a total of 6 credits. The additional 9 credits to meet the 21-credit requirement should be selected with the advice of a member of the department.

Minor in Gerontology/Aging

MWSC offers a interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work.

Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)

A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required by all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit his/her schedule. Contact the Coordinator of the minor in the Social Sciences Department or Academic Affairs Office for more information.

Psychology Courses

PSY 101 General Psychology (3) i, ii, iii. General information about psychology in everyday life, designed to correct misconceptions and to give the student a better understanding of self and others.

PSY 200 Intermediate Psychology (3) i, ii, iii. Introduction to scientific psychology with emphasis on methodology. Prerequisite: PSY 101.

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 220 Health Psychology/Stress Management (3) ii. Examines the psychological and social factors that influence health and disease. Attention is also focused on stress management, the health care system, and the evaluation of health-related research. Prerequisite: PSY 101.

PSY 222 Psychology of Gender (3) I. Explores the similarities and differences between the female and male gender in the following psychological areas: role acceptance, gender identity, sexuality, parenthood, achievement and ability, personality, adjustment and mental health, and relationships. Prerequisite: PSY 101.

PSY 250 Behavior Modification (3) ii (odd-numbered years). Explores the application of behavioral principles to human problems. Prerequisite: PSY 101.

PSY 300 Psychological Statistics and Measurements (3) i, ii (odd-numbered years). Considers contemporary methods of inventorying individual differences, and the theoretical basis for criteria in constructing, standardizing, and using test instruments, with a brief theoretical introduction and critique of the misuse of psychological tests. Prerequisite: PSY 101, 200 and satisfactory completion of the math requirements for general studies. Majors course requirement.*

PSY 301 Experimental Psychology (3) i, ii. Provides training in the techniques and methods of scientific psychology; emphasizes construction of hypotheses, experimental design, data interpretation, and style of reporting research. Prerequisite: PSY 101, 200, 300; majors course requirement.*

PSY 302 Experimental Psychology Laboratory (2) i, ii. Laboratory experience in designing and conducting psychological research, data analysis and writing research reports. Must be taken concurrently with PSY 301. Majors course requirement.*

PSY 305 Psychology of Communication (3) ii. Analyzes the elements of interpersonal communication; emphasizes techniques of communicating thoughts and ideas, listening techniques, understanding meaning, designed to improve the students interpersonal relationships. Prerequisite: PSY 101, 200; majors course requirement.*

PSY 309 Abnormal Psychology (3) i, ii. A descriptive and exploratory consideration of abnormal behavior, with a survey of past and present theories, classifications, and therapies. Prerequisite: PSY 101.

PSY 310 Industrial/Organizational Psychology (3) ii. Introduces the research and theories of I/O Psychology and applies them to the problems and issues of the work place with an emphasis on the role of cognitive activity in work-related behavior. Prerequisite: PSY 101.

PSY 319 Child Psychology (3) i, ii, iii. Examines life-cycle changes that occur from conception through early adolescence, emphasizing the origins and principles of normal development. Prerequisite: PSY 101, 200; majors course requirement.*

PSY 321 Adulthood and Aging (3) ii. Examines life-cycle changes that occur from middle and late adolescence through old age and death; explores the changes in physical and sensory development, intelligence, personality, friendships, and work and family roles. Prerequisite: PSY 101.

PSY 325 Psychology of Personality (3) i. Dynamics of personality development and human behavior; emphasizes theories of personality. Prerequisite: PSY 101, 200; majors course requirements.*

PSY 335 Learning (3) ii (odd-numbered years). Surveys major theories of learning in contemporary psychology, with a brief historical introduction. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 345 Animal Behavior (3) i (odd-numbered years). Introduction to the comparative method in exploring and classifying behavior in animals. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 350 Physiological Psychology (3) i. Investigates the physiological correlates of behavior. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 355 Sensation and Perception (3) ii (even-numbered years). Considers data and theory concerning sensory and perceptual processes; includes sensory mechanisms, neuropsychological bases of perception, perceptual development, and psychological phenomena encountered in the various senses. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 360 Motivation and Emotion (3) i (even-numbered years). Investigates theoretical and research issues on such motivational topics as drive, goal, directedness, incentive, reinforcement, external stimulation, emotion, instinct, and self-actualization. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 365 Social Psychology (3) i, ii (even-numbered years). Considers the individual in relation to society; includes theoretical foundations, socialization, social cognition, group dynamics, and leadership. Prerequisite: PSY 101, 200; majors course requirement. *

PSY 400 Introduction to Psychological Testing and Assessment (3) ii. Basic principles of tests, measurements, and assessment will be reviewed and some of the most useful and meaningful person assessment techniques will be studied and evaluated in detail. Professional and ethical standards as well as social issues related to testing will be presented. Prerequisite: PSY 300, 325; majors course requirement. *

PSY 410 Introduction to Counseling Psychology (3) ii. Provides an overview of counseling as applied in a variety of institutional settings; reviews differing counseling techniques and theories as well as types of problems encountered in counseling; includes survey of research related to counseling. Prerequisite: PSY 101, 325; majors course requirement. *

PSY 415 Intermediate Statistics for the Behavioral Sciences (3) ii (even-numbered years or on demand). Applies basic statistical procedures to behavioral research; considers some statistical procedures not taught in MAT 201, and the use of computers in data analysis. Two hours lecture, two hours lab. Prerequisite: PSY 301 or MAT 132; majors course requirement. *

PSY 419 Psychology of the Exceptional child (3) ii (odd-numbered years). Considers problems and needs of children who noticeably deviate from accepted physical, psychological, and social norms. Prerequisite: PSY 101, 200, 319; majors course requirement. *

PSY 420 Practicum in Psychology (4) i. Provides senior students in psychology the experience of applying their knowledge to an actual situation in the field. An additional 4 credits may be earned by taking PSY 421. Prerequisite: Senior status in psychology and consent of department.

PSY 421 Practicum in Psychology (4) ii. Provides senior students in psychology the experience of applying their knowledge to an actual situation in the field. An additional 4 credits may be earned by taking PSY 420. Prerequisite: Senior status in psychology and consent of department.

PSY 430 History and Systems in Psychology (3) i. Consideration of the major historical approaches to defining, organizing and explaining psychological phenomena. Prerequisite: PSY 101, 200; majors course requirement. *

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. Prerequisite: Consent of Department Chairperson.

PSY 480 Independent Research (1-5) i, ii. Research on selected topics or problems, on an individual conference basis. Prerequisite: Consent of Department Chairperson.

PSY 490 Senior Seminar (2) i, ii. Designed for seniors majoring in psychology; emphasizes discussion of current areas of interest in psychology and vocational and educational opportunities. Prerequisite: majors course requirement. *

* These courses may be taken only by students who have declared a major or minor in a discipline that lists this course as required or elective for that major or minor. Exceptions to this course prerequisite require written psychology department approval.

Department of Social Sciences

Dr. Steven G. Greiert, *Chairperson*

The Social Sciences study human societies to understand their history, components, varieties, and behavior. These sciences study the changes, organization, and disorganization of societies, and they examine the varieties of people in society, their character and conduct, and the evidence of their "human nature". Students who major in Social Sciences usually prepare for careers in teaching, government, law, business or social work.

Bachelor of Arts Degree Requirements

The B.A. requires 16 credits in a single foreign language.

Major in History

Courses in History must total 33 credits, with an additional 24 credits required in supporting areas. The student must have a minimum GPA of 2.00 to declare a major. The following specific courses are required: HIS 100, 110, 130, 140, 150, 330 or 340, plus 15 additional credits in history, including 12 credits in courses numbered 300 or higher; PSC 101, 110, plus 3 additional credits in political science; SOC 110 plus 3 additional credits in sociology; GEO 100; ECO 260; 3 credits in social science other than history.

Major in Political Science

Courses in Political Science must total 30 credits, with an additional 24 credits required in supporting areas. The student must have a minimum GPA of 2.00 to declare a major. The following specific courses are required: PSC 101, 110, 200, 210, 310, 320, plus 12 additional credits in political science courses numbered 300 or higher; HIS 100, 110, 140, 150; SOC 110 plus 3 additional credits in sociology; GEO 100; ECO 260.

Bachelor of Science Degree Requirements

Major in History

The requirements for the B.S. are the same as the requirements for the B.A. except that the foreign language requirement is replaced by an 18-credit 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 B.S. are the same as the requirements for the B.A. except that the foreign language requirement is replaced by an 18-credit minor. The course work for this minor area should be worked out with the student's major advisor.

Teacher Education in Social Sciences

Students desirous of teaching Social Sciences at the secondary school level, are required to complete the appropriate Bachelor of Science or Bachelor of Arts degree requirements in history along with the completion of the *Professional Education Sequence* necessary for teacher certification in Missouri at the secondary school level (see Teacher Certification) instead of a minor.

Teacher education students must also complete the General Studies requirements as listed under Secondary Education.

Teacher education students in the Social Sciences should work closely with their advisors in the development of this combined curriculum to insure satisfaction of all requirements for both the major and teacher education components of this newly structured program.

History 465, *Methods of Teaching Social Studies*, is also a requirement for all Social Sciences/Teacher Education students.

Bachelor of Social Work Degree Requirements

The principal educational objective of the Social Work major is to prepare the baccalaureate graduate for beginning Social Work practice. The Social Work program is accredited by the Council on Social Work Education, and the B.S.W. degree is limited to students who have completed the program in its entirety. Students desiring to major in Social Work should indicate their interest to the Social Work faculty so they can be assigned a Social Work advisor as soon as possible in their college career.

Acceptance as a Social Work major is gained through a competitive process. Applications to declare the major will be received three times a year; the deadline for applications are October 1, March 1, and June 1. Applicants must have completed more than 45 hours but fewer than 66 hours of coursework. Re-entry and transfer students who have completed more than 65 hours may request from the Department of Social Sciences a description of the process for requesting a waiver of this requirement. Applicants also must have completed SWK 250, ENG 104, SOC 110, and PSY 101, with a grade of C or higher in each, before their Social Work major application will be considered. The minimum acceptable cumulative G.P.A. shall be no lower than 2.50. A selection committee reviews all applicants and determines those who will be admitted as majors. This review includes an interview, assessment of academic performance, references, and the students' responses to questions included on the application form. If a student is not admitted to the Social Work program initially, the student may re-apply once.

A second admissions process must be completed successfully before majors may take SWK 460 - Practicum in Social Work. Students apply for the practicum the semester prior to their enrollment in SWK 460. The practicum application process includes the submission of a written application and successful completion of an interview.

A minimum grade of C in each social work course and a cumulative G.P.A. of 2.50 are necessary to graduate with the B.S.W. Compliance with the NASW Code of Ethics is an academic requirement of the program. Additional admission and retention requirements are given to students when they apply to declare the major in Social Work; copies also are available in the departmental office.

Courses in Social Work must total 32 credits, with an additional 39-41 credits in related areas. The following specific courses are required: SWK 250, 320, 330, 350, 410, 420, 460 (two semesters), 470; SOC 110, 230, 330, 440, 460; PSC 101, 320; PSY 101, 319, 321, 365; ECO 260; BIO 101, 111 or 260 (or for transfer students the equivalent of the following human biology courses: BIO 240, 241, 252, 265, or 305.)

Minors

Minor in Geography

Courses in geography and related areas must total 18 credits. The following specific courses are required: GEO 100, 150, 210, 320, 330; BIO 305.

Minor in History

Courses in history must total 18 credits.

United States history option: HIS 140, 150, 300, 330, plus an additional 6 credits in history courses numbered 300 or higher.

European history option: HIS 100, 110, 130, 320 or 340, plus an additional 6 credits in history courses numbered 300 or higher.

Minor in Political Science

Courses in political science must total 18 credits.

American Government option: PSC 110, 320, 330, 360, 410, plus an additional 3 credits in political science courses numbered 300 or higher.

International Affairs option: PSC 200, 210, 340, 440, plus an additional 6 credits in political science courses numbered 300 or higher.

Minor in Gerontology/Aging

MWSC offers an interdisciplinary minor in Gerontology/Aging. Since increasing numbers of Americans are living longer, there is a growing need for people trained to deal with the elderly. A minor in Gerontology/Aging could be especially helpful for students majoring in biology, communication, leisure management, management, nursing, psychology, or social work.

Students seeking this minor must complete at least 21 credits from the following list of classes:

- * SWK 260 Introduction to Aging Studies (offered every spring semester)
- BIO 265 Biology of Aging (offered fall semesters of even-numbered years)
- LMA 370 Fitness and Recreational Aspects of Aging (offered fall semesters of even-numbered years)
- NUR 365 Special Needs of the Elderly (offered fall semesters of odd-numbered years)
- PSY 321 Adulthood and Aging (offered every spring)
- COM 350 Communication and Aging (offered fall semesters of odd-numbered years)
- SWK 265 Death and Dying (offered fall semesters of odd-numbered years)

A 1-3 Credit field experience/practicum/internship arranged through one of the participating departments and approved by the MWSC Gerontology/Aging Advisory Board.

(* indicates this course is required by all students)

Since most of these courses are offered only periodically, it is important for a student to decide on this minor as early as possible to ensure the classes can be planned to fit his/her schedule. Contact the Coordinator of the minor in the Department of Social Sciences or Academic Affairs Office for more information.

Minor in Social Work

Students seeking this minor must complete 22 credit hours: SWK 250, 320, 330, 350, and one additional 3-hour social work course; SOC 230 and PSY 101.

Minor in Sociology

Courses in sociology must total 21 credits. The following courses are required: SOC 110, 120, 230, either SOC 310 or 400, SOC 440, plus an additional 6 credits in sociology courses numbered 300 or higher.

Geography Courses

GEO 100 World Geography (3) i, ii, iii. Introductory course which emphasizes the interrelationships between man and the natural environment.

GEO 150 The Geography of Human Environments (3) i. An introduction to the discipline of geography, covering the four traditions of geography: human-environment relations, spatial analysis, earth's processes and regional analysis.

GEO 210 Geography of the United States and Canada (3). Regional study of the physical, cultural and economic geography of the United States and Canada. Prerequisite: A course in geography.

GEO 320 Geography of Europe (3). 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 of European history.

GEO 330 Economic Geography (3). Patterns of distribution, production, and consumption of the world's goods; causal factors of geographic location of agricultural, industrial, and extractive production; world trade routes, increasing industrial production, problems of non-industrial nations.

History Courses

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, the founding of European overseas empires, the Reformation, the emergence of constitutional governments, the Scientific Revolution, and the American and French Revolutions.

HIS 120 Modern World History (3). A survey of the political, social, and economic history of the world (Europe, Africa, Middle East, India, Far East, and Latin America) from 1815 to the present.

HIS 130 Modern Europe: 1789 to the Present (3) i, ii. The French Revolution and Napoleonic periods; reaction, nationalism, and revolution; rise of socialism; imperialism; World War I; the Russian Revolutions and Soviet communism; the rise of fascism; Hitler, Stalin, and World War II; the Holocaust; the postwar bi-polar world order; the bloc system.

HIS 140 American History to 1865 (3) i, ii. The discovery of America to the end of the Civil War; colonial America, the Revolution, national development, sectionalism, and the Civil War.

HIS 150 American History since 1865 (3) i, ii. Continuation of HIS 140. Reconstruction, industrialization, urbanization, emergence as a world power, progressivism, World War I, the New Deal, World War II, and postwar America.

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; studies the state's contributions to politics, art, literature, education, industry, and transportation.

HIS 320 The Jacksonian Era, 1824-1848 (3) ii (odd-numbered years). Postwar expansion; rise of American nationalism and the growth of the West; revival of the two-party system; Jacksonian democracy; humanitarian crusades; the Mexican War.

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: 6 credits in 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: 6 credits in 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 325 American Economic History (3). 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 the government in the economy of today. Prerequisite: 6 credits in American History.

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 339 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. Prerequisite: HIS 130.

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 postwar period. Prerequisite: HIS 130.

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 European empires, Oriental resistance to Westernization, and the emergence of modern China, Japan, and the Pacific nations. Prerequisite: HIS 110 or 130.

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.

HIS 370 History of Latin America (3) ii (even-numbered years). A survey course including 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: 6 credits in European history.

HIS 400 Civil War and Reconstruction (3) i (odd-numbered years). Sectionalism in antebellum America; developing sectional crisis and coming of the Civil War; effects of the war and reconstruction of the nation. Prerequisite: 6 credits in American history.

HIS 420 History of Africa (3). North Africa in the ancient world, Africa during the age of geographical discoveries, nineteenth century European imperialism, the emergence of modern African states and their problems. Prerequisite: 6 credits in European history.

HIS 450 Independent Study in History (1-5) i, ii. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form in history, minimum 2.5 GPA in the major field of study, and consent of Department Chairperson.

HIS 465 Methods of Teaching Social Studies (2) i. Principles and methods of teaching social studies in secondary school; objectives, problems, materials, and methods applied to the social studies curriculum. Prerequisite: Consent of advisor.

Political Science Courses

PSC 101 American National Government (3) i, ii, iii. The American constitutional system, including Congress, the presidency, and the courts; and public issues.

PSC 110 American State and Local Government (3) ii. Colonial and revolutionary origins of state government; state constitutions; referendum, initiative, and recall procedures; state legislatures; governors; state courts; county and municipal governments. Prerequisite: PSC 101.

PSC 200 International Politics (3) ii. The nature of politics at the international level; the national state system and state capabilities; foreign policy objectives, formulation, and execution; international organizations and alignments; contemporary world tensions. Prerequisite: PSC 101.

PSC 210 Comparative Political Systems (3) i. Structural-functional analysis of major European political systems; comparison and contrast among such systems and with others of contemporary significance. Prerequisite: PSC 101.

PSC 220 American Public Policy (3) ii. Major policy dilemmas of government, e.g., energy and environmental protection, civil rights and liberties, welfare, taxation, spending and budgeting, intergovernmental and international relations. Prerequisite: PSC 101.

PSC 290 Practicum in Political Science (3-5) i, ii, iii. Internships with public agencies, governmental organizations, or private groups or agencies which interact with government are available with the approval of the Social Sciences Department via its Political Science Coordinator. This field work will provide first-hand experience with the operations, institutions, and policy concerns of cooperating agencies, organizations and groups. Prerequisite: PSC 101 and either PSC 110 or a substitute course with consent of instructor. Must have a major in political science and either a cumulative grade point average of at least 2.5 or a 3.0 or higher in political science.

PSC 300 Political Parties and Interest Groups (3) ii (even-numbered years). Evolution of the American two-party system; place of the interest group in decision making through interaction with executive and legislative branches. Prerequisite: 6 credits in political science.

PSC 310 Political Theory (3) i. Political theories of classical thinkers, Plato and Aristotle; of church fathers, Augustine and Aquinas; and of modern theorists, Machiavelli, Hobbes, Locke, Rousseau, and Mill; Marxism and Fascism. Prerequisite: PSC 101.

PSC 320 Public Administration (3) ii. Organization theory; bureaucracy; public personnel and policy; issues in American public administration. Prerequisite PSC 101.

PSC 330 Urban Politics (3) ii (odd-numbered years). The growth of cities and metropolitan areas, the legal status of local governmental entities, politics and elections and the role of interest groups in governing the metropolis, and the functions and services of urban governments. Prerequisite: 6 hours PSC.

PSC 340 Latin American Political Systems (3) i (even-numbered years). Comparative approach to Latin American political institutions; investigates causes for political instability; revolution, the new military, socialism vs. communism, and economic development and U.S. policy. Prerequisite: 6 credits in Political Science.

PSC 345 Politics of the Middle East (3) ii (even-numbered years). Investigation of the nature of politics involved in the Middle East, with a comparison and contrast of the major political systems and a review of the current political instability, with special attention to the historical origins leading to the instability. Prerequisite: PSC 101 or consent of instructor or Department Chairperson.

PSC 350 Governments of Britain and the Commonwealth (3). 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: PSC 101 or consent of instructor.

PSC 360 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: PSC 101.

PSC 400 American Foreign Policy (3) i (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, rules, role in law making; the role of interest groups, congressional investigations, and the modern presidency in the legislative process. Prerequisite: 6 credits in 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: PSC 101.

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. Investigation of selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form in Political Science, minimum 2.5 GPA in the major field of study, and consent of Department Chairperson.

PSC 490 Practicum in Political Science (5-12) i, ii, iii. Internships with public agencies, governmental organizations, or private groups or agencies which interact with government are available with the approval of the Social Science Department via its Political Science Coordinator. This field work will provide first hand experience with the operations, institutions, and policy concerns of cooperating agencies, organizations, and groups. Prerequisite: PSC 101, 110, 320 and one from among the following: PSC 300, 330, or 410. Must be a junior or senior and a major in Political Science. Must have either a cumulative grade point average of at least 2.5 or 3.0 or higher in Political Science.

Social Work Courses

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 260 Introduction to Aging Studies (3) ii. Overview of the physical, social, psychological, cultural, and economic aspects of aging, all from a social problems perspective; social policy and social work intervention issues pertaining to aging.

SWK 265 Death and Dying (3) i (odd-numbered years). Cultural views and customs regarding death and dying; stages of death and dying; abnormal grief reactions, issues pertaining to children and death, role of spirituality; functions of health care systems and interdisciplinary teams.

SWK 270 Selected Topics in Social Work (3) i, ii. Study of a selected problem in social work practice, e.g., mental illness, chemical dependence, or child welfare. Course may be repeated for credit for each different topic.

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; (also, for SWK majors) PSC 101 and PSC 320 (may be taken concurrently at the consent of the instructor); (also, for SWK minors) PSC 101.

SWK 330 Human Behavior and Social Environment (3) i. The social systems approach; its application to evaluating people in groups and to social work concepts of human development in all stages of the life cycle. Prerequisite: (for SWK majors) SWK 250 and a combination of 12 hours of PSY and SOC courses; (for non-majors) junior status or consent of instructor.

SWK 350 Social Work Methods I (4) ii. Explores the helping relationship and basic skills necessary to respond to client needs. Three hours lecture, three hours lab per week. Prerequisite: SWK 250, SWK 330, a combination of 12 hours PSY and SOC courses, and junior status.

SWK 410 Social Work Methods II (3) i. Continuation of SWK 350. Social interventive skills; generalist practice methodology, social group work, integration of practicum experiences with practice theory, social work ethics and values, and current practice literature. Taken concurrently with SWK 460. Prerequisites: SWK 330, SWK 350; (for majors only) formal acceptance into the Social Work program; (for minors only) consent of the instructor.

SWK 420 Philosophy and Policy in Social Services II (3) i. Continuation of SWK 320. Analyzes the philosophy and policies of presently active social agencies; policy reforms and evaluation of their possible effectiveness. Prerequisite: SWK 320, ECO 260, and formal acceptance into the Social Work Program.

SWK 450 Independent Study in Social Work (1-5) i, ii. Investigates selected problems or topics on an individual conference basis. Prerequisite: Completion of major-minor application form in Social Work, minimum 3.0 GPA in major field of study, and consent of Department Chairperson.

SWK 460 Practicum in Social Work (5) i, ii. Field experience under the supervision of trained professionals in the field of Social Work. A total of 450 hours is spent during the Fall and Spring semesters in an agency setting. Two semesters required, for a total of 10 credits. Taken concurrently with SWK 410 and SWK 470. Prerequisites: SWK 320, 330, 350, and formal acceptance into the Social Work program.

SWK 470 Social Work Methods III (3) ii. Continuation of SWK 410. Focus on family and community intervention, integration of practicum experiences; current practice literature; other selected topics. Taken concurrently with SWK 460. Prerequisite: SWK 410 and SWK 460.

Sociology Courses

SOC 110 General Sociology (3) i, ii, iii. Sociology concepts: social organization, human interaction with individuals and groups, population, and social change.

SOC 120 General Anthropology (3) i. The bio-cultural evolution of the human species, with emphasis on culture as adaptation for survival; comparison of human non-literate societies, stressing cultural variability, cultural relativity, and similarities between cultures.

SOC 200 Introduction to Archaeology (3) i. The language, methodology, theoretical frameworks and history of the field of archaeology, with special emphasis on excavations and their contribution to knowledge of man's past civilization.

SOC 230 Social Problems (3) i. An analysis of contemporary American social problems, with an emphasis on urban problems. Prerequisite: SOC 110.

SOC 310 Deviant Behavior (3) ii (odd numbered years). A review of the sociological explanations and research findings relating to mental illness, violent behavior, homosexuality, alcoholism, and other behaviors considered deviant in American society. Prerequisite: SOC 110 and 230.

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: 6 credits in Sociology.

SOC 360 Sociology of Health and Illness (3) i. Sociological view of health and illness in contemporary society. Influences of culture, social and physical environments, and technology on the production, distribution, and care of health and illness. Prerequisite: SOC 110.

APPENDICES

Appendix A:

Course Abbreviations

ACC	—Accounting	GBA	—General Business Administration
AEC	—Agricultural Economics	GEO	—Geography
AGB	—Agribusiness	GER	—German
AGN	—Agronomy	HIS	—History
AGR	—Agriculture	HON	—Honors
ALH	—Allied Health	HUM	—Humanities
ART	—Art	JOU	—Journalism
ASI	—Animal Science	LAT	—Legal Assistant
BAN	—Banking	LAW	—Criminal Justice
BIO	—Biology	LMA	—Leisure Management
BUS	—Business Education	MAT	—Mathematics
CED	—Continuing Education	MGT	—Management
CET	—Construction Engineering Technology	MIL	—Military Science
CHE	—Chemistry	MKT	—Marketing
COL	—College Orientation	MTE	—Medical Technology
COM	—Communication Studies	MUS	—Music
CSC	—Computer Science	NUR	—Nursing
ECO	—Economics	OIS	—Office Information Systems
EED	—Elementary Education	PED	—Physical Education
EET	—Electronic Engineering Technology	PHS	—Physical Science
EGT	—Engineering Technology	PHY	—Physics
ENG	—English	PSC	—Political Science
ESC	—Earth Science	PSY	—Psychology
ETC	—English Technical Communications	SED	—Secondary Education
FIN	—Finance	SOC	—Sociology
FRE	—French	SPA	—Spanish
		SWK	—Social Work
		THR	—Theatre

Appendix B:

The Board of Regents

- Vickie Bradley, President** (term expires October 29, 1993)
Appointed by Governor John Ashcroft, March 1988
- James J. McMillen, M.D., Vice President** (term expires October 29, 1994)
Appointed by Governor John Ashcroft, March 1989
- R. Dan Boulware** (term expires October 29, 1992)
Appointed by Governor John Ashcroft, December 1986
- Greg Wall** (term expires October 29, 1995)
Appointed by Governor John Ashcroft, May 1990
- John K. Thomas** (term expires October 29, 1996)
Appointed by Governor John Ashcroft, June 1991
- William Carpenter** (term expires October 29, 1997)
Appointed by Governor John Ashcroft, October 1991
- Student Regent*
Kevin R. Hayes (term expires January 1, 1994)
Appointed by Governor John Ashcroft, February 1992

Morrison, Shirley, Director of Planned Giving and College Relations (B.A., Western Illinois University)

Murphy, Janet Gorman, President (B.A., University of Massachusetts; M.Ed., Boston University; Ed.D., University of Massachusetts)

Nichols, Mary Margaret, Assistant Athletic Director/Head Volleyball and Softball Coach (B.S., Missouri Western State College; M.A., Ed.S., University of Missouri-Kansas City)

Nolte, Jeffrey L., Director of Conferences and Special Programs (B.M., M.M., University of Kansas)

Norton, Janet L., Director of Center for Academic Support (B.A., Missouri Western State College; MA, University of Missouri-Columbia)

Ostermann, Brian S., Assistant Men's/Women's Basketball Coach (B.S., University of Wisconsin-LaCrosse; M.S., Northwest Missouri State University)

Palling, Barbara R., Coordinator of Public Services (B.S., Kansas State Teachers College, MA, University of Denver; Ph.D., Texas Women's University)

Partridge, Gerald E., Assistant Football Coach/Defensive Coordinator (B.S., Missouri Western State College; M.A., University of Missouri)

Perkins, Charles A., Dean of Professional Studies (B.S., U.S. Naval Academy; M.B.A., University of California-Berkeley; Ph.D., George Washington University)

Phillips, Sandra., Circulation Coordinator (B.A., Missouri Western State College)

Ponciano, Ronald L., Assistant Football Coach/P.E. Equipment Coordinator (B.A., M.A., Azusa Pacific University)

Potter, Steven M., Counselor (A.A., Southeastern Community College; B.A., University of Northern Iowa; M.A., Northeast Missouri State University)

Robinson, Susan A., Director of Employee Relations (B.S.B.A., Missouri Western State College)

Roever, James E., Vice President for Academic Affairs (B.A., Wartburg College; M.A., Kansas University; Ph.D., University of Iowa)

Saunders, Alicia R., Admissions Counselor (B.S.B.A., Missouri Western State College)

Schlesinger, Max, Director of Instructional Media Center (B.S., Bloomsburg State College; M.S., Rochester Institute of Technology)

Schneider, Julia L., Director of Library (A.A., Missouri Western State College; B.A., Northwest Missouri State University; M.L.S., University of Missouri-Columbia)

Schutte, Joyce A., Reference Librarian (AA, Maple Woods Community College; B.A., Missouri Western State College; M.L.S., University of Missouri-Columbia)

Secrest, Angela K., Coordinator of Technical/Automation Services (B.A., Central College; M.A., University of Iowa)

Silvey, Rick L., Math Coordinator (B.S., Missouri Western State College; M.S., University of Missouri-Kansas City)

Smith, Arlene S., Admissions Counselor (B.S., Valparaiso University)

Smith, Thomas J., Men's Head Basketball Coach (B.S., Valparaiso University)

Smither, Ellen L., Coordinator of Non-Traditional Student Services (B.S., M.S., Northwest Missouri State University)

Sweetgall, Paul H., Assistant Athletic Director for External Relations (B.S., MA, Ohio State University)

Throckmorton, Todd A., Assistant Football Coach (B.S., Missouri Western State College, M.A., University of South Dakota)

Tyler, Detra D., Payroll Coordinator

Tyler, Melvin C., Assistant Director of Admissions (B.S., M.S., Northwest Missouri State University)

Willis, Donald R., Assistant Dean of Student Affairs (A.A., Highland Community College; B.S., Northwest Missouri State University; M.S. Emporia State University)

Appendix D:

Faculty 1993-94

- Alsbury, Bonnie**, Assistant Professor of Nursing (B.S.N., Northwest Missouri State University; M.S.N., University of Missouri)
- Anderson, Jerry L.**, Associate Professor of Music (B.S., Southwest Missouri State University; M. M., Wichita State University)
- Andresen, William F.**, Professor of Biology (B.A., Wayne State Teachers College; M.S., Ph.D., University of Nebraska)
- Andrews, Kathleen**, Assistant Professor of Nursing (B.S., Creighton University; M.N., University of Kansas)
- Andrews, Larry D.**, Associate Professor of Criminal Justice (A.S., B.S., Missouri Western State College; M.S., Ed.S., Central Missouri State University)
- Archer, Leonard J.**, Professor and Chairperson of Chemistry (B.S., Northwest Missouri State University; M.S., Ph.D., University of Nebraska)
- Arnett, Harold W.**, Assistant Professor of Education (B.S., Murray State University; M.S., Murray State University; Ph.D., Ohio State University)
- Aschermann, Jerry R.**, Professor of Education (B.A., University of Northern Colorado; M.S., Ed.D., Utah State University)
- Ashley, David C.**, Professor of Biology (B.S., M.S., Bowling Green State University; Ph.D., University of Nebraska)
- Atkinson, John E.**, Associate Professor of Mathematical Sciences (B.S., M.S., Emporia State University; Ed.D., Oklahoma State University)
- Austin, Jennifer S.**, Instructor of Mathematics (B.A., Augustana College; M.A., Indiana University)
- Bagnall, Norma**, Professor of English (B.S., MA, Ph.D., Texas A & M University)
- Bain, Casey E. CPT.**, Instructor of Military Science (B.S., Eastern Kentucky University)
- Bargar, James S.**, Associate Professor of Psychology (B.A., William Jewell College; M.A., Southern Methodist University; Ph.D., University of Missouri, Kansas City)
- Bartles, Denise**, Associate Professor of Business and Economics (B.S., Missouri Western State College; J.D., University of Missouri-Kansas City)
- Bennett, David**, Assistant Professor of Music (B.A., Albion College; M.M., Ball State University; Ph.D., University of Iowa)
- Blessing, Brenda**, Associate Professor of Health, Physical Education and Recreation (B.S., Indiana State University; M.S., Indiana State University; Ph.D., The Ohio State University)
- Boutwell, Richard A.**, Associate Professor of Biology (B.S., M.S., University of Nebraska)
- Burket, Dennis S. CPT.**, Instructor of Military Science (B.S., Troy State University)
- Butcher, Carl R.**, Associate Professor and Chairperson of Criminal Justice and Legal Studies (A.S., B.S., Missouri Western State College; M.S., Central Missouri State University; Ed.S., Central Missouri State University)
- Castellani Joseph**, Professor of English (B.S., City College of New York; M.A., Columbia University; Ph.D., Ball State University)
- Chelline, Warren H.**, Professor of English (B.A., M.A., University of Missouri-Kansas City; M. Phil., Ph.D., University of Kansas)
- Church, Sharon Kay**, Instructor of Psychology (B.S., Missouri Western State College; M.A., University of Missouri-Kansas City)
- Cluff, Richard B.**, Assistant Professor of Psychology (B.S., University of Utah; M.S., Florida State University)

- Cowsert, Lane**, Professor and Chairperson of Agriculture (B.S., University of Tennessee-Martin; M.S., Ph.D., University of Tennessee-Knoxville)
- Crain, Jeanie C.**, Associate Professor of English (B.A., Berry College; M.A., Purdue University; Ph.D., Purdue University)
- Crumley, Richard E.**, Professor and Chairperson of Biology (B.S., Pittsburg State University; M.S., Emporia State University; D.A., University of Northern Colorado)
- Daffron, Jeanne M.**, Associate Professor of Nursing (A.S., B.S., Missouri Western State College; M.A., University of Missouri-Kansas City; Ph.D., Texas Women's University)
- Dick, Richard J.**, Assistant Professor of Business and Economics (B.A., Michigan State University; M.A., University of Northern Colorado)
- Dobbins, Larry**, Professor of Communication Studies, Theatre and Humanities (B.S., M.A., University of Nebraska; Ph.D., University of Iowa)
- Downey, Sharon L.**, Associate Professor and Chairperson of Office Information Systems (B.S., Western Illinois University; M.S., Northwest Missouri State University)
- Dunham, Robert W.**, Assistant Professor of Music and Director of Bands (B.M., B.M.E., University of Northern Colorado; M.M., University of Wyoming)
- Dye, David A.**, Associate Professor of Legal Studies (B.A., J.D., University of Missouri-Kansas City)
- Edwards, Nancy T.**, Professor of Education (B.A., Graceland College; M.Ed., University of Missouri-Columbia; Ph.D., University of Missouri-Kansas City)
- Eickhorst, William S.**, Professor and Chairperson of Art (B.F.A., Parsons School of Design; B.A., M.A., Montclair State College; D.Ed., Ball State University)
- Eppenauer, James J.**, Assistant Professor of Agriculture (B.S., Lincoln University; M.S., University of Missouri-Columbia)
- Erickson, Charles R.**, Professor of Health, Physical Education, and Recreation (B.S., M.Ed., Texas A & M University; Ed.D., North Texas University)
- Ernce, Keith**, Associate Professor and Chairperson of Health, Physical Education and Recreation (B.S., Oral Roberts University; M.A., University of Tulsa; Ph.D., The University of New Mexico)
- Esry, Cordelia M.**, Associate Professor and Chairperson of Nursing (B.S.N., M.Ed., University of Missouri-Columbia; Ph.D., The University of Kansas)
- Estes, James R.**, Professor of Art (B.S., Northwest Missouri State University; M.A., Fort Hays State University; M.F.A., Arizona State University)
- Evinger, Lee E.**, Associate Professor of Biology (B.S., Dickinson College; M.A., Indiana University)
- Falde, Carol Ann**, Assistant Professor of Nursing (B.S.N., University of California, Los Angeles; M.N., University of California, Los Angeles)
- Findlay, Walter R.**, Associate Professor of Communication Studies, Theatre and Humanities (A.A., Manatee Junior College; B.A., University of South Florida; M.F.A., Florida State University)
- Fowler, Martha Lou**, Assistant Professor of Business and Economics, (B.S., M.S., Northeast Missouri State University)
- Freedman, Deborah**, Assistant Professor of Music (B.A., University of Minnesota School of Music; M.A., Ph.D., Peabody Conservatory of Music)
- Frick, M. Jane**, Professor and Chairperson of English, Foreign Languages and Journalism (B.S., Drake University; M.A., University of Northern Colorado; Ph.D., University of Missouri-Kansas City)
- Fulton, Karen**, Associate Professor of English (B.A., Knox College; M.A., Case Western University; Ph.D., Case Western University)
- Gilgun, John P.**, Professor of English (B.A., Boston University; M.A., M.F.A., Ph.D., University of Iowa)
- Gille, Susan**, Assistant Professor of Nursing, (B.S.N., University of Missouri-Columbia; M.S., University of Missouri-Columbia; Ph.D., University of Missouri-Columbia)

- Gilmour, F. Matthew**, Professor and Chairperson of Music (B.M., Missouri Valley College; M.M., D.M.A., University of Missouri-Kansas City)
- Godfrey, Christopher**, Professor and Chairperson of Mathematical Sciences (B.S., University of Central Arkansas; Ph.D., Iowa State University)
- Gorcyc, Diane Atkinson**, Assistant Professor of Communication Studies, Theatre, and Humanities (B.S., Lamar University; M.A., Ph.D. University of Oklahoma)
- Grechus, James W., Jr.**, Associate Professor of Physical Education (B.S., Kansas State University; M.S., Central Missouri State University)
- Greenwald, Barry J.**, Associate Professor of Business (B.S.B.A., M.S.B.A., University of Denver; C.P.A.)
- Gregory, Bonnie**, Assistant Professor of Nursing (B.S., South Dakota State University; M.N., University of Kansas)
- Greiert, Steven G.**, Professor of History and Chairperson of Social Sciences (B.A., St. Olaf College; M.A., Ph.D., Duke University)
- Groh, Sharon L.**, Associate Professor of Music (A.A., Missouri Western State College; B.S., Park College; M.M., University of Missouri-Kansas City)
- Hamzaee, Reza**, Professor of Business and Economics (B.S., National University of Iran; M.A., University of California-Santa Barbara; Ph.D., Arizona State University)
- Hansen, Thomas C.**, Associate Professor of Education (B.A.Ed., Wayne State University; M.A., Creighton University; Ed.S., University of Alabama; Ed.D., Northwestern State University of Louisiana)
- Harmon-Miller, Jean E.**, Associate Professor of Art (B.A.E., M.F.A., University of Kansas)
- Hartenbower, Patricia Sue**, Instructor of Health/Physical Education/Recreation (B.S., Northwest Missouri State University; M.S., Northwest Missouri State University)
- Hawley, Lucretia M.**, Assistant Professor of Business (B.S., B.S.B.A., M.A., Central Missouri State University; C.P.A. and C.M.A.)
- Haynes, S. Earl**, Professor of Education (B.S., M.S., Central Missouri State University; Ed D., University of Kansas)
- Hinrichs, Susan M.**, Associate Professor of Mathematical Sciences (B.S.B.A., M.A., Spec., Central Missouri State University)
- Hoffmann, Rosemary L.**, Associate Professor of Foreign Languages (B.S., Northwest Missouri State University; M.A., Middlebury College)
- Hoover, Michael C.**, Associate Professor of Sociology (BA, MA, Southern Illinois University; Ph.D., University of Tennessee; M.A., Counseling and Testing, U.M.K.C.)
- Hughes, John T.**, Associate Professor of Art (B.F.A., Kansas City Art Institute; M.F.A., University of Nebraska-Lincoln)
- Huntermark James M.**, Assistant Professor of Psychology (B.A., Duquesne University; M.A., Marshall University; Ph.D., University of Arkansas)
- Huston, Bill L.**, Associate Professor of Mathematical Sciences (B.A., Tarkio College; M.A., Duke University)
- Jenner, Paul F.**, Assistant Professor of Business and Economics (A.B., Drury College; M.B.A., Drury College)
- John, David A.**, Associate Professor of Mathematical Science (B.A., B.S., M.S., University of Iowa; Ph.D., University of Missouri-Kansas City)
- Johnson, Darell James**, Assistant Professor of Mathematical Science (B.S., M.S., Ph.D., University of California-Riverside; Ph.D., Massachusetts Institute of Technology)
- Johnson, Kenneth G.**, Assistant Professor of Mathematical Sciences (B.S., M.S., University of Missouri-Rolla)
- Johnston, Ernest A.**, Assistant Professor of Mathematical Sciences (B.S., M.S., University of Kansas)
- Kalantar, Mahmood**, Assistant Professor of Engineering Technology (B.S., North Carolina Agricultural and Technical State University-Greensboro; M.S., North Carolina Agricultural and Technical State University-Greensboro)

- Katz, Joanne**, Assistant Professor of Legal Studies (B.A., J.D., University of Missouri-Kansas City)
- Kelly, Kathleen W.**, Assistant Professor of Nursing (B.S., Columbia University; M.S., University of Connecticut)
- Kepler, Jon S.**, Associate Professor of History (B.A., University of Tulsa; M.A., University of Tulsa; Ph.D., University of Kansas)
- Kessler, Frank P.**, Professor of Political Science (B.S., M.A., St. Louis University, Ph.D., University of Notre Dame)
- Khan, Adam**, Professor of Agriculture (B.S., Peshawar University; M.S., American University of Beirut; Ph.D., Colorado State University)
- Kibirige, Joachim S.**, Assistant Professor of Social Sciences (B.A., Makerere University; M.S., University of Missouri-Columbia; Ph.D., University of Missouri-Columbia)
- Krueger, Dale**, Assistant Professor of Business (B.A., DePauw University; M.A., Northern Illinois University; Ph.D., University of Missouri)
- Kump, Ferrell Z.**, Assistant Professor of Education (B.S., Brigham Young University; M.Ed., Ed.D., Utah State University)
- Lambing, Larry L.**, Professor of Chemistry (B.S., M.S., Pittsburg State University; Ph.D., University of Missouri-Kansas City)
- Latosi-Sawin, Elizabeth**, Professor of English (B.A., State University of New York at Buffalo; M.A., Ph.D., University of Iowa)
- Lee, Kenneth, W.**, Professor of Mathematical Sciences (B.S., Augustana College; M.S., University of Wyoming; D.A., University of Northern Colorado)
- Laverett, Ralph**, Assistant Professor of Education (B.S., Middle Tennessee State University; M.A., George Peabody College for Teachers; M.S., Vanderbilt University; Ph.D., George Peabody College of Vanderbilt)
- Lillie, Donald E.**, Assistant Professor of Communication Studies, Theatre and Humanities (B.A., M.A., Morehead State University)
- Luchok, Joseph A.**, Assistant Professor of Communication Studies, Theatre and Humanities (B.A., M.A., West Virginia University)
- MacDonald, Joseph J. MAJ.**, Instructor of Military Science (B.A., Temple University; M.S., Temple University)
- Magoon, Michael L.**, Assistant Professor of Foreign Languages (B.A., Drury College; M.A., University of Missouri-Columbia)
- Mahaffy, Donald L.**, Professor of Mathematical Sciences (B.S., Midwestern State University; M.A., North Texas State University; D.Ed., Oklahoma State University)
- Martin, Barbara Whitehead**, Instructor of Education (B.A., University of Kansas-Lawrence; M.A., University of Kansas-Lawrence)
- Martin, Judith L.**, Assistant Professor of English (B.A., M.A., University of Evansville; Ph.D., Southern Illinois University-Carbondale)
- Mathews, Michael K.**, Professor of Music (B.M., M.M., University of Michigan; Ph.D., Michigan State University)
- Maxwell, LeRoy, H.**, Assistant Professor of Criminal Justice (B.S., Missouri Western State College; M.S., Central Missouri State University)
- McCay, Christa T.**, Associate Professor of English (B.A., Graceland College; M.A., Ph.D., University of Wisconsin)
- McLear, Patrick E.**, Professor of Social Sciences (A.A., The Metropolitan Community Colleges; B.S., Northwest Missouri State University; M.A., University of Missouri-Kansas City; Ph.D., University of Missouri-Columbia)
- McMillen, Gail K.**, Instructor of Foreign Language (B.A., University of Maryland; M.A., University of Maryland)
- McMurry, Patrick H.**, Professor of Business and Economics (B.S. Southwest Missouri State University; M.A., Central Missouri State University; Ph.D., University of Arkansas)
- Mehl, James V.**, Professor and Chairperson of Communication Studies, Theatre and Humanities (B.S., St. Louis University; M.A., Ph.D., University of Missouri-Columbia)

- Mikkelsen, J. Mark**, Assistant Professor of Communication Studies, Theatre and Humanities (B.A., University of Nebraska; M.A., Ph.D., University of Kansas)
- Miller, Jill Ann**, Associate Professor of Criminal Justice (A.S., B.S., Missouri Western State College; M.S., Central Missouri State University; Ed.S., Central Missouri State University)
- Minnis, Douglas**, Assistant Professor of Education and Head Baseball Coach (B.S.Ed., M.S., Emporia State University)
- Mullen, Diane E.**, Instructor, Department of Business and Economics (B.S., Missouri Western State College; M.B.A., Northwest Missouri State University)
- Mullican, Julia**, Assistant Professor of Psychology, (B.S., University of Cincinnati; M.S., Midwestern University; Ed. Sp., University Missouri, Kansas City)
- Mullins, Carl P.**, Professor of Communication Studies, Theatre and Humanities (B.A., Vanderbilt University; M.A., M.Div., Pacific School of Religion; Ph.D., Graduate Theological Union)
- Nelson, G. Barry**, Assistant Professor of Engineering Technology (B.A., William Jewell College; M.S., Central Missouri State University)
- Noynaert J. Evan**, Assistant Professor of Mathematical Sciences (B.A., University of Illinois; M.S. University of Iowa; M.S., Midwestern State University)
- Nulph, Robert**, Assistant Professor of Communication Studies, Theatre and Humanities/Instructional Media (B.S., M.S., Clarion University)
- Owen-Roddy, Gloria Jean**, Assistant Professor of English (B.A., University of Northern Iowa; M.A., University of Iowa; Ed.S., University of Iowa; Ph.D. University of Michigan-Ann Arbor)
- Parmenter, C. Irvin**, Associate Professor of Communication Studies, Theatre and Humanities (B.S., M.A., University of Nebraska; Ph.D., University of Colorado)
- Pickett, H. Kent**, Assistant Professor of Mathematical Sciences (B.S., M.S., University of Missouri-Rolla)
- Pilgram, Henry W.**, Assistant Professor of Social Work (B.A., University of Missouri-Columbia; M.Div., McCormick Theological Seminary; M.S.W., University Illinois)
- Pritchett-Holland, Jeannette R.**, Assistant Professor of Business (B.S., Missouri Western State College; M.A., University of Missouri-Kansas City)
- Rachow, Thomas E.**, Associate Professor of Biology (B.S., University of Iowa; M.S., Ph.D., Southern Illinois University)
- Radmacher, Sally A.**, Associate Professor of Psychology (B.S., Missouri Western State College; M.A., University of Missouri-Kansas City; Ph.D., University of Missouri-Kansas City)
- Robbins, Donald J.**, Professor of Biology (B.S., M.S., Pittsburg State University; Ph.D., Kansas State University)
- Roever, Carol**, Assistant Professor, Department of Business and Economics (B.S., North Western University; M.S., University of Wisconsin at Whitewater)
- Rogers, Dennis G.**, Associate Professor of Music (B.M., M.M., Ph.D., University of Missouri - Kansas City)
- Rogers, Marcia D.**, Assistant Professor of Office Information Systems (B.S., Texas Woman's University; M.B.Ed., North Texas State University)
- Rosenauer, Kenneth L.**, Assistant Professor of English (B.A., Missouri Western State College; M.A., Southeast Missouri State University)
- Rubinstein, Les**, Instructor of Business and Economics (B.S., Missouri Western State College; M.B.A., Northwest Missouri State University)
- Ruiz, Kristin**, Assistant Professor of Nursing (B.S.N., University of Nebraska Medical College; M.S.N., University of Kansas Medical College)
- Rushin, John W.**, Professor of Biology (B.S., M.S., Indiana State University; D.A., Idaho State University)
- Sambasivam, Ezhilarasan**, Assistant Professor of Mathematical Sciences (B.S., University of Madras; M.S., Western Michigan University; M.S.E., University of Mysore; Ph.D., Moscow State University)

Schmitz, Leo H., Associate Professor of Mathematical Sciences (B.S., M.Ed., University of Missouri-Columbia; M.A., University of Illinois)

Schwarz, Richard M., Professor of Chemistry (B.S., Northwest Missouri State University; M.A., Ph.D., University of Missouri-Columbia)

Shell, Robert L., Associate Professor of Foreign Languages (B.S., Ph.D., University of Illinois)

Smith, Michael S., Assistant Professor of Education (B.A., Ashland College; M.S., The University of Dayton; Ph.D., Indiana University)

Smith, Russell L., Professor of Chemistry (B.S., Wisconsin State University; Ph.D., University of Iowa)

Snider, Craig, Assistant Professor of Marketing (B.A., Capital University; M.A., Western Kentucky University; Texas Tech University)

Stacey, David, Assistant Professor of English (B.A., Aquinas College; M.A., McGill University; Ph.D., University of Louisville)

Steiniche, David V., Professor of Social Sciences (B.A., Grinnell College; M.A., University of Wisconsin; Ph.D., University of Nebraska)

Stutterheim, Keith M., Assistant Professor of Engineering Technology (B.S., Kansas State University; M.S., Kansas State University)

Tapia, John E., Professor of Communication Studies, Theater and Humanities (B.A., California State University; M.A., University of Massachusetts; Ph.D., University of Arizona)

Taylor, Helen M., Instructor of Business and Economics (B.S.B.A., Missouri Western State College; M.B.A., Northwest Missouri State University; C.P.A.)

Thorne, Ann E., Assistant Professor of English (B.A., University of Missouri-Columbia; M.A., University of Missouri-Columbia)

Thomas, Frank D., Associate Professor of Music (B.M.E., M.M.E., Wichita State University)

Trifan, Daniel, Associate Professor of History (B.A., Fairleigh Dickinson University; M.A., Ph.D., Duke University)

Unzicker, Myron, Instructor of Physical Education and Athletic Trainer (A.A., Parkland Community College; B.S., Northern Illinois University; M.A., Ball State University)

Van Dyke, Cornelius, Instructor of Computer Science (B.S., Towson State University; M.A., Midwestern State University)

Vargha, Nader, Associate Professor of Economics (B.S.E.E., M.A., University of Oklahoma)

Varma, Virendra K. Professor and Chairperson of Engineering Technology (B.E., Birla Institute of Technology and Science; M.S., State University of New York-Buffalo; Ph.D., University of Missouri-Columbia; P.E.)

Wagner, Sharon, C., Associate Professor of Business (B.S., M.S., Ph.D., Kansas State University-Manhattan)

Wang, Jinchang, Assistant Professor of Business and Economics (B.S., Shaanxi Institute of Mechanical Engineering; M.B.A., Shanghai Institute of Mechanical Engineering; Ph.D., Georgia Institute of Technology)

Wallner, Anton, Assistant Professor of Chemistry (B.S., University of Wisconsin-Milwaukee; M. S., University of Michigan; Ph.D., Case Western Reserve University)

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Doherty, Mary Lee, Professor Emerita of English

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Flanagan, Frances, Professor Emerita of English

Force, Harry, Professor Emeritus of Biology

Galloway, Leo, Professor Emeritus of Biology

Galloway, Ruth E., Professor Emerita of English

Gettys, Helen, Professor Emerita of Education

Greene, Bonnie, Professor Emerita of Health, Physical Education and Recreation

Harvey, Marian V., Professor Emerita of Social Sciences

Heckle, Achsah M., Professor Emeritus of Chemistry

Jordan, James R., Professor Emeritus of Social Sciences

Lacy, Louise, Professor Emerita of Humanities and Communications

Long, James L., Professor Emeritus of Physical Education

Mack, William G., Director Emeritus of Bands

Marion, Glenn E., Professor Emeritus of Engineering Technology

Marion, Marvin, Professor of Education

McCann, Willis, Professor Emeritus of Psychology

Mitchell, Marian, Professor Emerita of Business

Price, Thomas, Professor Emeritus of Music

Richmond, George, Professor Emeritus of Education

Riener, Roberta, Professor Emerita of Music

Robert, Raymond, Professor Emeritus of Education

Rogers, Alfred H., Professor Emeritus of Social Sciences

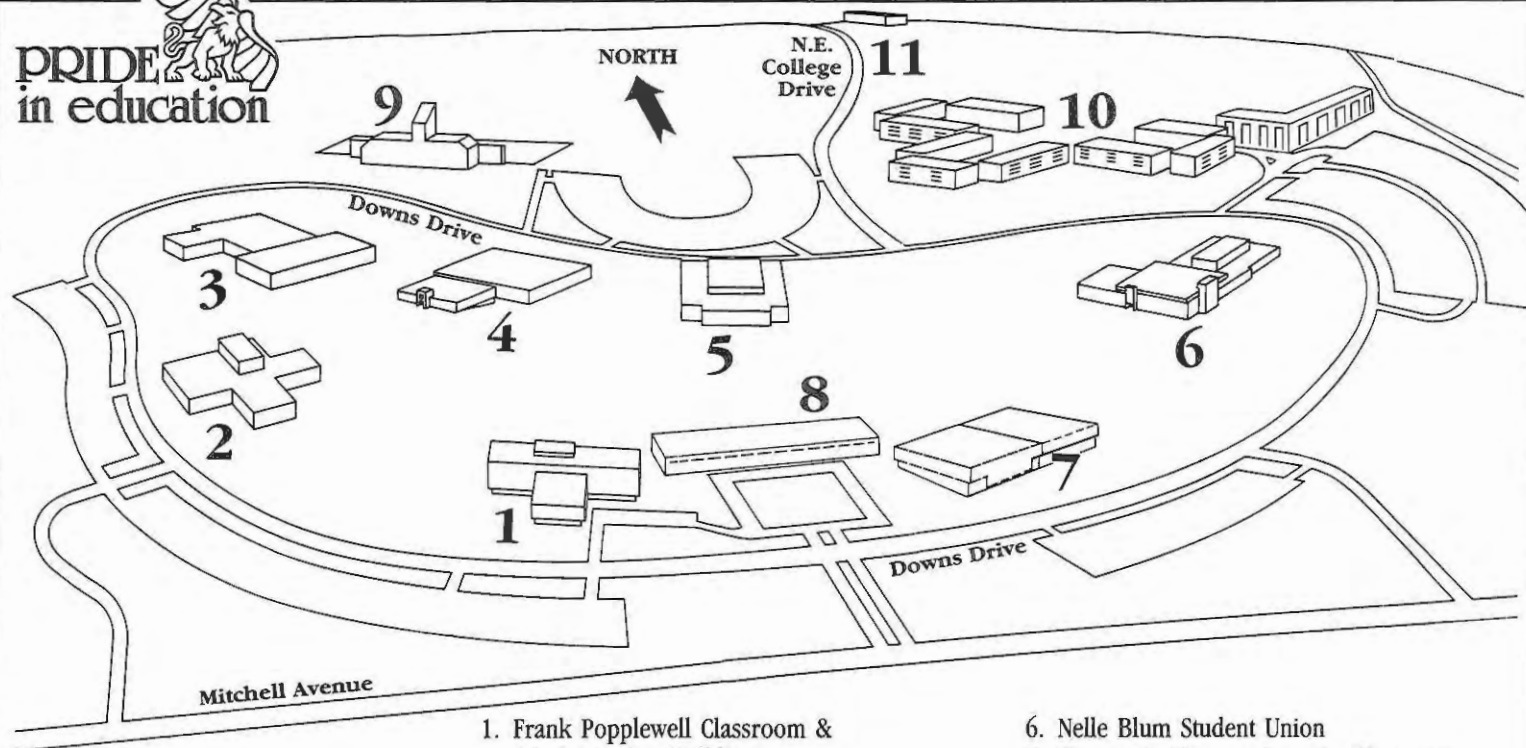
Shrout, Ethel H., Professor Emerita of Business

Sparks, Isabell, Professor of English

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PRIDE
in education



1. Frank Popplewell Classroom & Administration Building
2. Thompson E. Potter Fine Arts Center
3. M. O. Looney Health, Physical Education & Recreation Building
4. Truman E. Wilson Agriculture & Engineering Technology Building
5. Evan R. Agenstein Science & Mathematics

6. Nelle Blum Student Union
7. Warren E. Hearnese Learning Resources Center
8. Fred Eder Student Services/Classroom Building
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M. W. S. C.

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