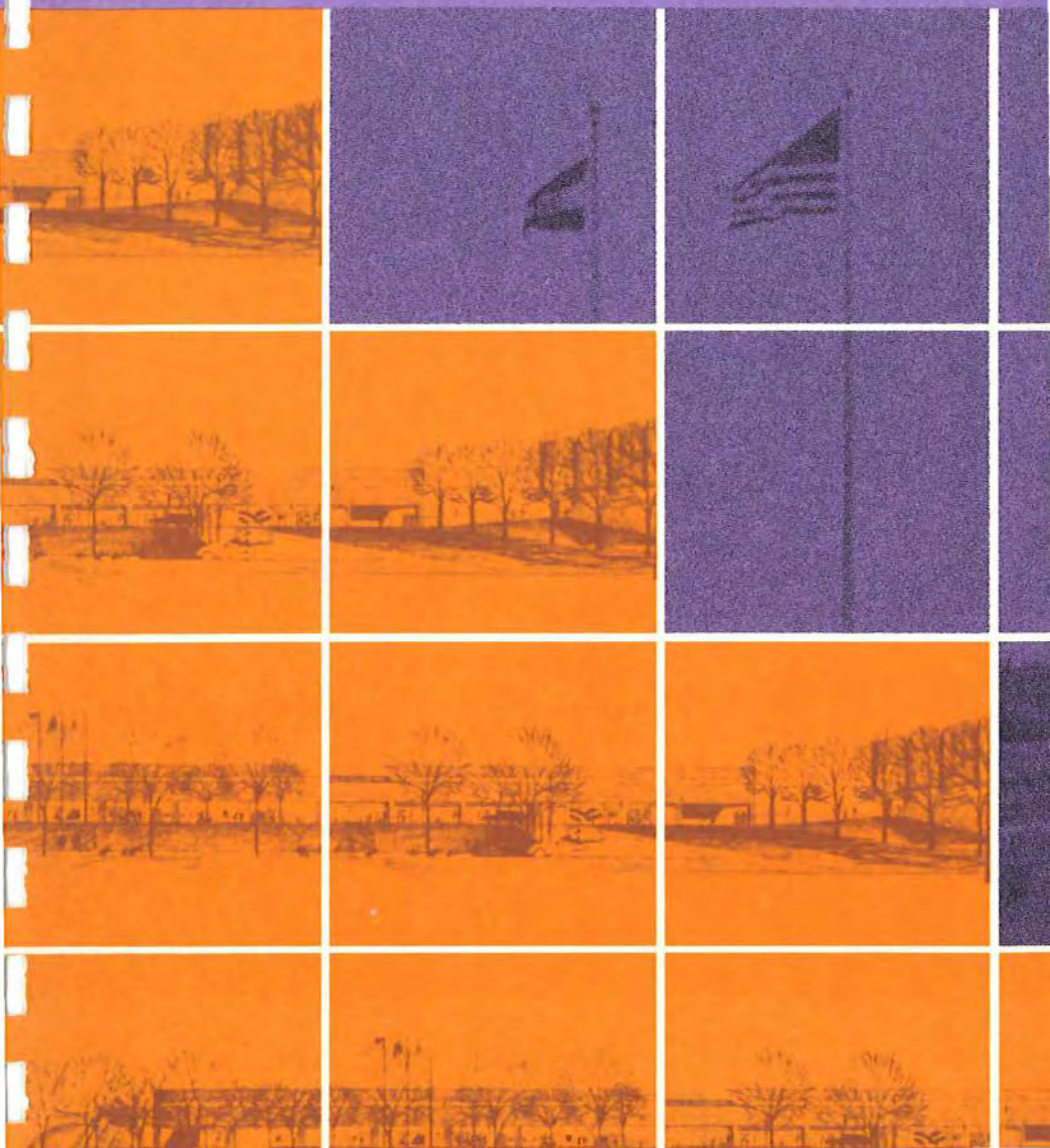


CATALOG 75-76



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GENERAL CATALOG

1975-1976

MISSOURI WESTERN STATE COLLEGE

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



Foreword . . .

The General Catalog of Missouri Western State College serves as a guide to the academic programs of the College and is intended to assist students in the selection of their programs of study. The catalog contains general information on requirements for admission, regulations, student services, administration, facilities, and degree programs. It includes a description of all courses offered in the College and lists the officers of administration and faculty members.

**Accredited by: North Central Association
of Colleges and Secondary Schools,
National Council for
Accreditation of Teacher Education**

CHANGES OF CATALOG

The degree requirements in this catalog, 1975-76, became effective September 1, 1975. A candidate for a degree may use as a basis for degree requirements the general catalog issued for any year following the date of his first registration in the college, so long as it is not more than six years prior to the date the degree is to be conferred. The candidate must have been enrolled during the year of the catalog selected.

For additional information, write to the specific office responsible for the matter of concern, as listed in the Directory of Correspondence in this catalog.

DIRECTORY OF CORRESPONDENCE

Academic Affairs	Dr. Robert Nelson, Vice President
Administrative Affairs	George Ashworth, Vice President
Admissions	
Alumni-College Foundation	Sam Sharp, Director
Applied Sciences	Dr. Conrad Bensyl, Dean
Athletics	Charles Burri, Director
Bookstore	Kirk McManamy, Manager
Buildings and Grounds	Charles Atha, Director
Business Affairs	Kenneth Hawk, Vice President
Business Office	Paul Hartman, Director
Career Programs	Dr. Stephen Capelli, Associate Dean
Computer Center	William Wood, Director
Cooperative Education	Richard Ayers, Coordinator
Counseling Center	Dorothy Graham, Director
Dean of Students	Forrest Hoff
Education and Psychology	Dr. Charles Coyne, Dean
Evening and Saturday Classes	Dr. George S. Richmond, Coordinator
Financial Aid	Robert Berger, Director
Foreign Student Adviser	Robert Hines, Counselor
Health Services	Dr. Phyllis Roberts, Director
Housing	Dan Hudson, Coordinator
Institutional Research	Lowell Clark, Director
Liberal Arts and Sciences	Dr. Bob R. Scott, Dean
Library	Helen Wigersma, Director
Loans	Robert Berger
Off-Campus Services	William Kuechler, Director
Placement	Sam Sharp, Director
Planetarium	Russell Maag, Coordinator
President	Dr. M. O. Looney
Publications & Internal Communications	Frank Smith, Director
Public Relations	Martyn Howgill, Director
Purchasing	Clifford Harlow
Registration	Tom Robinson, Director
Scheduling Facilities	Frank Smith
Scholarships	Robert Berger
Sports Information	Jerry Myers, Director
Student Affairs	Dr. Nolen Morrison, Vice President
Student Financial Aid	Don Cook, Coordinator
Testing	Marvin McDonald, Director
Tours	Frank Smith
Traffic & Security	
Transcripts	Tom Robinson
Veterans Affairs	James Brand, Coordinator

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1975

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1976

COLLEGE CALENDAR

1975-76

Summer Session 1975

June 6
June 7 (7:00 a.m.)
June 9 (7:00 a.m.)
July 3 (10:00 p.m.)
July 4
July 5
July 7 (7:00 a.m.)
Aug. 2 (12:00 Noon)

Aug. 5 (4:30 p.m.)

Registration (8 week session, both 4 week sessions)
Saturday classes begin
Weekday classes begin
First 4 week session ends
Holiday
No classes
Second 4 week session begins
Summer session ends (8 week and 2nd four week session)
Final grades due

Fall Semester 1975-76

Aug. 20, 21, 22
Aug. 25 (7:00 a.m.)
Sept. 1
Oct. 17
Nov. 24 (10:00 p.m.)
Dec. 1 (7:00 a.m.)
Dec. 12 (10:00 p.m.)
Dec. 15 (7:00 a.m.)
Dec. 20 (12:00 Noon)
Dec. 23 (4:30 p.m.)

Registration
Classes begin
Holiday (Labor Day)
Student Activity Day (No classes)
Thanksgiving Vacation begins
Classes resume
Classwork ends
Final Exams begin
Fall Semester closes
Final grades due

Spring Semester 1976

Jan. 19, 20, 21
Jan. 22 (7:00 a.m.)
March 20 (12:00 Noon)
March 29 (7:00 a.m.)
April 16
May 12 (10:00 p.m.)
May 13 (7:00 a.m.)
May 19 (10:00 p.m.)
May 20
May 24 (10:00 a.m.)

Registration
Classes begin
Spring recess
Classwork resumes
Good Friday, no classes
Classwork ends
Final Exams begin
Spring Semester closes
Commencement
Final grades due

THE COLLEGE

With the opening of the 1969-70 academic year, Missouri Western State College began its existence as a four-year college offering baccalaureate degrees. The College evolved from the earlier St. Joseph Junior College, organized by the St. Joseph Board of Education in 1915.

In 1964, interested citizens in eleven school districts—Agency-Faucett, Avenue City, DeKalb-Rushville, Easton, Gower, Lake Contrary, Moore, Platte Valley, Savannah, Spring Garden, and St. Joseph—joined in petitioning the Missouri State Board of Education for the formation of a junior college district. At a district election in 1965, the voters approved the establishment of the Missouri Western Junior College District.

Subsequently, the Missouri State Legislature authorized the addition of junior-year and senior-year instructional programs.

The College offers a comprehensive academic program designed to provide a vital center of learning and culture for the Missouri Western region. The College is accredited by the North Central Association of Colleges and Secondary Schools for the associate and baccalaureate degrees.

GOALS OF THE COLLEGE

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

1. Provide educational opportunities suited to the needs of its student body by developing
 - a. Bachelor degree programs in selected disciplines in the arts and sciences, education, technology, and business administration
 - b. One year certificate and associate degree programs in selected vocational and technical fields
 - c. Pre-professional and transfer programs in designated fields
 - d. General education components in all degree and certificate programs
 - e. Continuing and adult education courses, workshops, seminars and programs suited to the capabilities of the college and the needs of the community
2. Provide an appropriate learning environment for its students through the development of proper facilities and a strong and committed faculty, and by supplying requisite auxiliary services and recreational and cultural opportunities
3. Promote, within limits defined by the prior claim of regularly enrolled students, the welfare of the community, not only through work in continuing education but also through the provision of cultural and recreational opportunities and appropriate services.

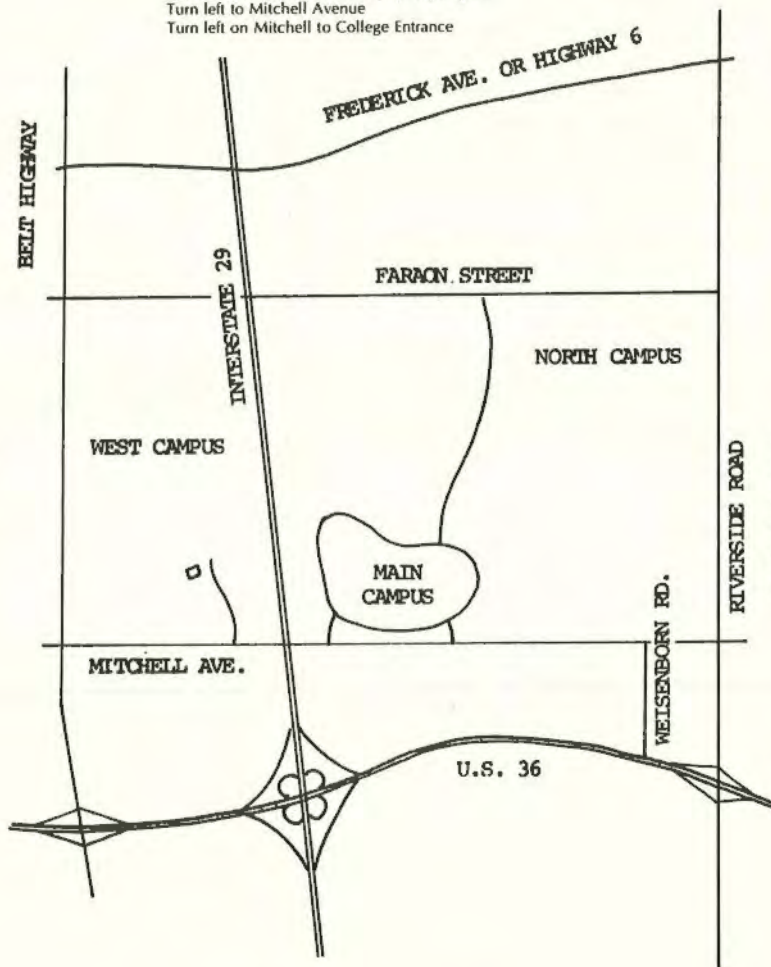
VEHICULAR ACCESS TO MISSOURI WESTERN STATE COLLEGE

NORTH

FROM MOUND CITY, SAVANNAH & MARYVILLE
South on I-29
Take Highway 36 east exit at interchange with I-29
Go east on Highway 36 to first road going left
Turn left to Mitchell Avenue
Turn left on Mitchell to College Entrance

WEST

FROM KANSAS
East on Highway 36 past
I-29 interchange
Turn left on first road
east of interchange
Go to Mitchell Avenue
Turn left on Mitchell
to College Entrance

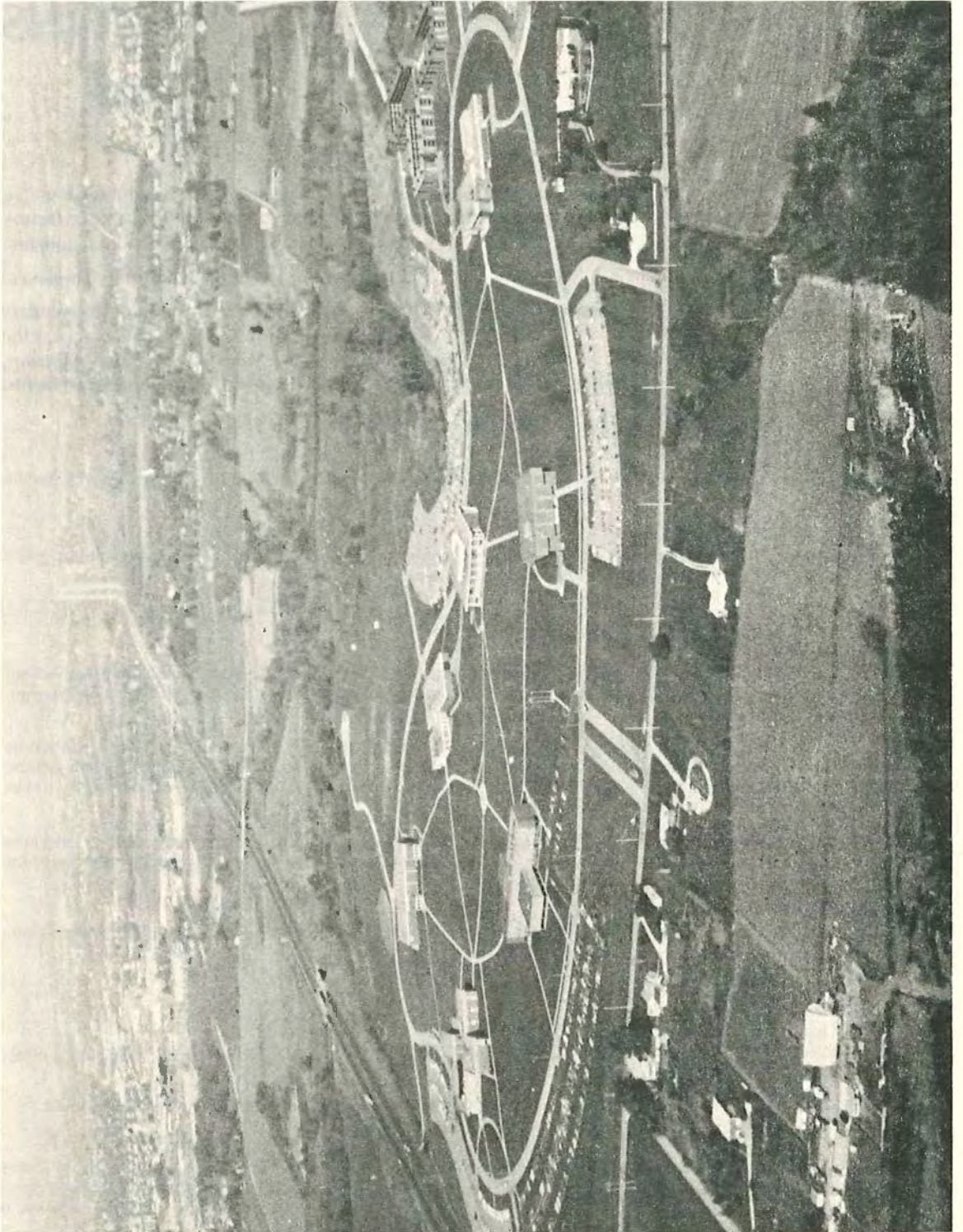


EAST

FROM CHILLICOTHE
& CAMERON
West on Highway 36
to road marked with
highway sign
Turn right to
Mitchell Avenue
Turn left on Mitchell
to College Entrance

FROM KANSAS CITY
North on I-29 to Cameron exit
Take Highway 36 east to first road on left
Turn left to Mitchell Avenue
Turn left on Mitchell to College Entrance

SOUTH



ADMISSIONS POLICIES . . .

Missouri Western State College maintains an open-door admission policy and national origin, race, color, religion or sex are not factors used in determining the admissibility of students.

The College is an Equal Opportunity Employer.

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

APPLYING FOR ADMISSION

An individual may be admitted to Missouri Western State College in one of six categories. Each category is described with specific requirements listed.

I. First Time College Student

A person seeking admission to Missouri Western State College, who has never previously attended a regionally accredited junior college, college, or university, must provide the following:

1. Application for admission.
2. \$5.00 Matriculation fee.
3. Results of the American College Testing Program. (A.C.T.)
4. Health History form.
5. Eight semester high school transcript, or seven semester high school transcript with confirmation of high school graduation or Equivalency Certificate awarded upon successful completion of the General Education Development Test. (G.E.D.)

A prospective student with a high school grade average of less than 2.00 (on a 4 point scale) will be admitted; however, he may be limited to an enrollment of 12 credit hours during his first semester. Graduates of accredited high schools from other states will be admitted to Missouri Western under the same policies as in-state students. In the event that instructional space would have to be provided on a priority basis, in-state students will be given first priority.

Students who graduate from high school at mid-term may enroll as full time students at Missouri Western by securing a letter from the high school principal stating that the student has fulfilled the requirements for graduation and will be graduated during the following spring exercises.

II. College Transfer

A person seeking admission to Missouri Western State College, who has previously attended a regionally accredited junior college, college, or university, must provide the following:

1. Application for admission.
2. \$5.00 Matriculation fee.
3. Health History form.
4. Official transcript from each junior college, college, or university attended.
5. Results of the American College Testing Program (A.C.T.) *only* if the student has earned a combined total of less than twelve semester hours credit.

The maximum credit that a student may transfer from a junior college toward advanced standing is 64 semester hours.

All grades of D and F transferred from accredited institutions will be treated exactly as they would if earned at M.W.S.C.

Transfer students seeking a baccalaureate degree must complete the last thirty credit hours here. A minimum of nine credit hours of the residence requirement must be in the major field. Education majors must also include student teaching in the residence requirement. Transfer students applying for the associate degree must complete the last fifteen credit hours at this institution. A minimum of six credit hours of the residence requirement must be in the major field.

III. Visiting High School

A high school student may attend Missouri Western State College in his or her senior year on a part-time basis concurrent with high school attendance. The visiting high school student must have approval from his or her high school principal. The principal must certify that the student has completed the junior year and is academically capable of pursuing college level course work. A visiting high school student must provide the following:

1. Application for admission.
2. \$5.00 Matriculation fee.
3. Health History form.
4. Letter of approval from the high school principal.

Upon completion of Missouri high school graduation requirements, the student must further provide:

1. Eight semester high school transcript or seven semester high school transcript with confirmation of graduation.
2. Results of the American College Testing Program. (A.C.T.)

The visiting high school student must realize that his high school is his home school and that he cannot participate in social activities sponsored by Missouri Western State College.

IV. Visiting College

A person may be admitted to Missouri Western State College for one semester or session as a visiting college student by providing the following:

1. Application for admission by certification.
2. \$5.00 Matriculation fee.
3. Health History form.

The sending institution must certify the student is in good standing.

V. Foreign Student

A person from a foreign country may be admitted to Missouri Western State College by providing the following:

1. Application for admission.
2. \$5.00 Matriculation fee.
3. Results of the Test of English as a Foreign Language (T.O.E.F.L.) A minimum score of 500 is required.
4. Statement of financial independence.
5. Proof of completion of high school equivalence with cumulative grade point average of 2.0 or above.

A member of the Counseling Center serves as a special adviser to students from abroad who are attending Missouri Western State College. He assists with personal problems and with adjustments to the customs and procedures of American educational systems.

VI. Continuing Education

Those who wish to pursue enrichment courses, which are non-degree applicable, may be admitted through the Center for Continuing Education. There are two types of courses offered through the Center for Continuing Education. They are traditional credit generating courses and non-credit courses. Since both types of courses do not apply towards a degree while the student is enrolled through the Center for Continuing Education, the admission requirements are minimal, and may vary, depending upon the specific course or courses taken. Basically, the following items are required for admission in this category:

1. Application for admission.
2. \$5.00 Matriculation fee. (If you have not previously attended Missouri Western State College).
3. Health History form. (Depending on the nature and duration of the course or courses.)

For further information see the Continuing Education section on page 77 or call the Center for Continuing Education.

NON-RESIDENT CREDIT AND CREDIT BY EXAMINATION

Missouri Western State College may accept a total of 30 credit hours work (maximum) obtained by a student in the following ways:

I. Non-resident credit

- a. United States Armed Forces Institute and other armed services schools.

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

- b. Extension work from regionally accredited institutions of higher education.
- c. Correspondence work from regionally accredited institutions of higher education.

The foregoing work must be documented by written records from the United States Government and/or other institutions of higher education. The student must apply to the Registrar for evaluation of such work prior to his registration for his last 30 hours of College credit at Missouri Western State College. In those cases involving non-resident credit in the official records of the student at the time of admission, the Coordinator of Admissions will make the evaluation. An early evaluation is desired since the student can more clearly plan the remainder of his academic work.

II. Credit by Examination

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

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

Regulations Regarding Credit by examination

A student is eligible to receive credit by examination only if the student meets the following requirements:

- (1) To attempt a test out at Missouri Western State College the student must have applied for admission and paid the matriculation fee.
- (2) Before credit obtained through examination is awarded, the student must be enrolled at M. W. S. C.
- (3) Student must not be enrolled in a course for which an exam is being requested.
- (4) The student must be granted written permission by all appropriate college authorities prior to taking the exam. An exception to this is the CLEP General for a first-time college student.
- (5) Transfer students must have complete transcripts of previous college credit in the Records Office before written permission for test out will be granted.

A student is ineligible to receive credit by examination if he has:

- (1) Earned prior credit in the course.
- (2) Audited the course.
- (3) Attempted the course and received grade assessment of WF or F.
- (4) Taken a college course or courses which contain the same basic material.

Normally, students request credit by examination early in their college career to avoid ineligibility at a later date.

The student must earn a minimum of 30 credit hours of resident credit excluding any credit by examination.

Procedures for CLEP General Examination

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

TEST DATES	TEST FEES
March 13, 1976	\$20.00 for one
June 26, 1976	\$30.00 for two
	\$40.0 for three or more

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

Procedures for Subject Examinations

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

TEST DATES	APPLICATION DEADLINES
November 15, 1975	October 16, 1975
April 24, 1976	March 26, 1976

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

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

- (1) The student must present a written request in which he states his reasons for asking for the special date.
- (2) The department chairman will decide whether or not the petition is justified and may ask for verification.
- (3) If the circumstances warrant it, the department may set up a special test time.

The two types of Subject Examinations are described below:

1. Single-level Subject Matter tests: A student is required to take a separate test for each course for which he desires to obtain credit. The test fee is \$20.00 if the test used for that course is CLEP, and \$15.00 if the exam used for test out is a departmental college test.
2. Multi-level Subject Matter tests: In the case of sequence courses, an academic department may use a single test in determining the proficiency of the student in the skills/knowledge demanded by the courses in said sequence. If a student desires credit by examination in two or more courses in a sequence covered by such a test then a test fee of \$25.00 is applicable and the student will be given credit for each course in the sequence for which he demonstrates the minimum standards of proficiency as designated by the academic department.

CLEP GENERAL TESTS	SUBSCORES	GENERAL STUDIES REQUIREMENT MET	CREDIT HRS.
English		Eng Comp 100 & Eng Comp 104	3 cr. hrs. 3 cr. hrs.
Humanities	High in Fine Arts Low in Literature	Art/Music/Theatre & Humanities elective (excluding Lit)	3 cr. hrs. 3 cr. hrs.
	Relatively equal subscores	Art/Music/Theatre & Literature 210	3 cr. hrs. 3 cr. hrs.
	High in Literature Low in Fine Arts	Humanities elective Literature 210	3 cr. hrs. 3 cr. hrs.
Mathematics		Algebra 103 & Algebra 105	3 cr. hrs. 3 cr. hrs.
Natural Science	Higher in Biological Lower in Physical	Biology 101	6 cr. hrs.
	Lower in Biological Higher in Physical	One of the following: Chemistry 101 OR Physics 101	6 cr. hrs. 6 cr. hrs.
Social Sciences and History		Two of the following: History 140 OR History 150 OR Political Science 101	3 cr. hrs. 3 cr. hrs. 3 cr. hrs.

Refund Policy

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

ENGLISH HONORS

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

VETERANS

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 Admissions Office at the time of admission or to the Registrar's Office if the student has registered for courses.

Veterans Assistance

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

REGISTRATION PROCEDURES and FEES . . .

All first-time college students and transfer students must plan to visit the College during the summer months for advisement and orientation. An appointment date will be issued when the initial application requirements have been completed. Each new student is scheduled for an interview with a counselor who will discuss his program with him and answer questions he may have about choice of vocation, enrollment, or the College in general. Students will report at a designated time, prior to the beginning of classes, for final registration. All late registration must be completed prior to the first meeting of the second week of a particular class.

CLASS AUDITORS

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

Attendance and instructional requirements for audited courses are at the discretion of the instructor. In order to assist the student in determining whether or not an audit status will fulfill his educational purpose, it will be necessary for the student to discuss his needs with the appropriate Division Dean before enrolling for an audit. The Division Dean should sign the appropriate enrollment form if he agrees that the audit status will meet the student's need.

If a student enrolls in a class for credit, he may choose to change his registration to audit if he does so prior to the end of the sixth week of the semester. A change from audit to credit must be completed by the end of the first week and the discussion with the appropriate Division Dean referred to in the foregoing paragraph must take place.

RESIDENCE

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

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

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

SCHEDULE OF FEES

	9 or more hours	less than 9 hours
I. Residents of the Missouri Western Junior College District		
a. Junior College Division	\$151.00	\$17 per credit hour
b. Senior College Division	\$186.00	\$21 per credit hour
II. Residents of Missouri (outside the Missouri Western Junior College District.)	\$186.00	\$21 per credit hour
III. Non-Residents (outside the State of Missouri)	\$376.00	\$42 per credit hour

SUMMER SESSION

	5 or more hours	less than 5 hours
I. Residents of the Missouri Western Junior College District		
a. Junior College Division	\$ 75.50	\$17 per credit hour
b. Senior College Division	\$ 93.00	\$21 per credit hour
II. Residents of Missouri (outside the Missouri Western Junior College District.)	\$ 93.00	\$21 per credit hour
III. Non-Residents (outside the State of Missouri)	\$188.00	\$42 per credit hour

All students with 55 hours and above will be classified senior college division.

Student Activity Fee—\$5 per semester for all full and part-time students

OTHER FEES

Dormitory Security Deposit	\$ 40.00	Change of Study Fee (per petition)	\$ 5.00
Dormitory Fee (Room & Board) per semester	\$425.00	College Credit by Exam	
Application Fee	\$ 5.00	(single level) (per test)	\$ 15.00
Applied Music Fee (per credit hour)	\$ 20.00	College Credit by Exam	
Late Registration Fee	\$ 20.00	(multi-level) (per sequence)	\$ 25.00
Charge for Late Payment of Fees	\$ 5.00	Transcript Fee	\$ 1.00
Physical Education Uniform	\$ 2.00	Graduation Fee	\$ 15.00
Student Activity Fee	\$ 5.00	Laboratory Breakage & Materials	Cost
		(The College reserves the right to change fees without notice.)	

Application Fee—This is a non-refundable fee paid at the time of application for initial admission.

Late Enrollment Fee—A fee of \$20.00 will be assessed if a student enrolls after the regular enrollment schedule. Dates for regular enrollment periods will be found in the class schedule.

Applied Music Fee—All students participating in applied music are required to pay this fee for private lessons and consultation.

Transcript Fee—A student is entitled to one transcript free of charge. Each additional transcript request must be accompanied by a \$1.00 payment.

Graduation Fee—A fee to defray the cost of diploma, rental of cap and gown, and other graduation activities is charged all degree candidates.

Laboratory Breakage and Materials—There is no charge for the use of laboratory equipment. However, students will be expected to pay for materials used in individual projects and for excessive breakage or loss of materials and equipment due to negligence.

Audit Fee—Auditors will pay the regular fee.

Physical Education Uniform—A fee of \$2 per semester for those activities where uniform is required.

Dormitory Security Deposit—This is a fee to cover any damage or breakage and subject to refund when the student moves from the dormitory.

PAYMENT OF FEES

Fees will be payable according to a fee payment schedule and registration will not be considered complete unless all fees have been paid. Refer to the class schedule for fee payment dates.

Students not paying until the second scheduled fee period will pay a late fee payment charge of \$5.00.

REFUND OF FEES

Refunds are given only to students who drop out of college entirely; no refund is given to students who drop individual classes or make schedule changes that result in reduced semester hour class load.

Withdrawal during 3rd week of classes .....	.50% of Fee
Withdrawal after 3rd week of classes	No Refund

FINANCIAL AID . . .

Philosophy of the Financial Aid Program

**The college's financial aid program
is designed to assist qualified students who would not
otherwise be able to attend
Missouri Western State College.**

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

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

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

Application Procedure for Financial Assistance

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

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

AWARDING OF FINANCIAL AID

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

**Scholarships, fee waivers, or financial aid, are not applicable for
courses numbered under 100 or for courses taken without regular college credit.**

STUDENT AID

BASIC EDUCATIONAL OPPORTUNITY GRANT: This is the new program, which, when fully funded, will entitle every student wishing to attend college \$1400 minus parent contribution which is not to exceed one-half of the cost of college. To be eligible to receive the Basic Educational Opportunity Grant the student must demonstrate need, be enrolled as a full time student (12 hr. or more) and could not have begun post-secondary education before April 1, 1973.

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

COLLEGE WORK-STUDY PROGRAM: Under Title I, Part C, of the Economic Opportunity Act of 1964, a student may be employed part-time while attending college. Part-time employment means working a maximum of 15 hours per week while classes are in session. Prospective students who qualify under the guidelines of the College Work-Study Program may be employed 40 hours per week in the summer months preceding the academic year.

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

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

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

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

NURSING STUDENT SCHOLARSHIP PROGRAM: The purpose of the program is to assist students of exceptional financial need to undertake courses of study leading to careers in nursing.

INSTITUTIONAL LOAN: The College has various student loan funds available to its students and prospective students. These funds are used to loan worthy and needy individuals the money necessary for their enrollment at this institution. The interest charge for the use of these funds is nominal. Liberal repayment schedules are available. Any interested individual is encouraged to visit or write the Financial Aid Office.

DR. WILLIAM L. AND MILDRED T. LANDFATHER LOAN: Landfather funds provide interest free loans for 5 students each semester. The loans are awarded by the Student Financial Aid Office to freshmen, sophomores, juniors, or seniors, whose major field is Science or Mathematics. The loan may be renewed each semester, provided the recipient makes satisfactory academic progress. Repayment of loan after graduation is arranged for the convenience of the student.

PART-TIME EMPLOYMENT: Each year there are opportunities for students to find part-time employment on the campus or in the community. Information concerning job opportunities may be secured from the Financial Aid Office.

ESTIMATED COST OF ATTENDING MISSOURI WESTERN STATE COLLEGE:

	Per Semester			Per School Year		
Incidental Fee	\$156	\$191	\$381	\$ 312	\$ 382	\$ 762
Room and Board	\$425			\$ 850		
Books	\$ 50			\$ 75		
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	\$631	\$666	\$856	\$1237	\$1307	\$1687

Each individual should make allowances for cost of clothes, laundry, travel, insurance, recreation, and miscellaneous personal expenses. The average cost of these items is \$500 per year. Payments on automobiles are not normally considered as legitimate educational expenses.

The College incidental fee and room and board rates are subject to revision by the governing boards.

SCHOLARSHIPS

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

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

Scholarships Having Specific Requirements for Eligibility

REGENTS AND TRUSTEES HONOR SCHOLARSHIPS: Regents and Trustees Honor Scholarships are given to all Missouri students who rank in the top 20% of their graduating high school class and who score 75 percentile or above on the Ohio Psychological Test or Missouri SCAT test or 23 composite score on the ACT test. This award is a partial waiver of tuition and fees. This award is renewable for each semester if the student achieves a 2.500 grade point average the first semester and a 3.000 grade point average thereafter.

HONOR SCHOLARSHIP: One scholarship each year to each high school in Missouri. The high school selects students from top 20% of class. This scholarship is a partial waiver of tuition and fees and is renewable if student maintains a 3.0 grade point average.

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

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

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

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

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

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

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

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

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

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

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

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

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

FEENEY CONSTRUCTION COMPANY SCHOLARSHIP: This scholarship was established in November 1961, and first awarded to a member of the 1962 graduating class. It is expected to be made available to former graduates of one of the five St. Joseph high schools, in accordance with provisions established by the donor. Students may apply to the Scholarship Committee.

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

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

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

SERGEANT E. L. TRICE LAW ENFORCEMENT SCHOLARSHIP: This scholarship was created to honor forty years of diligent police service by Sergeant E. L. Trice, St. Joseph Police Department. Awarded to an active police officer enrolled in a course of instruction, leading to a degree in the field of Law Enforcement. Application is made through the Chairman, Scholarship Committee. The scholarship will be for \$50 per semester.

Applicants must be active police officers working toward a degree in law enforcement. Only applicants who have completed fifteen semester hours with a GPA of 2.5 or better will be considered for this scholarship.

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

GENERAL WILLIAM McCASKEY AND COLONEL DOUGLAS McCASKEY SCHOLARSHIP: This scholarship has been established by General William McCaskey and Colonel Douglas McCaskey to be given to the son or daughter of a career military person or actual person making service a career, or to retired military person. Recipient must be enrolled full-time and attaining "satisfactory" academic progress. Application is made through the Scholarship Committee.

MARIE MOREHEAD MEMORIAL SCHOLARSHIP: This scholarship is given by the Mental Health Association of St. Joseph in memory of Mrs. Morehead and is for \$300 per calendar year. It is awarded to a student enrolled in a course of instruction leading to a degree in Social Work. Students may apply to the scholarship committee.

JAYCEE WIVES SCHOLARSHIP: Applications for the Jaycee Wives Scholarship are distributed in the St. Joseph High Schools early in the second semester of each year. The recipient may receive up to \$100 per semester during their freshman year.

ARMY ROTC SCHOLARSHIPS: The U.S. Army offers a number of one, two, three, and four-year scholarships each year which pay all tuition, textbooks, laboratory fees, and other purely educational expenses. In addition, the student receives a tax-free stipend of \$100 per month for the duration of the scholarship. Scholarships are awarded on a competitive basis, the criteria being SAT or ACT scores, high school and college academic records, participation in extracurricular and athletic activities, and personal interviews. Any citizen who can meet certain criteria may apply. Although no obligation is incurred through application, acceptance of the scholarship obligates the recipient to enroll in ROTC, obtain a bachelor's degree, and serve at least four years on active duty. Application forms may be obtained from the Military Science Department, Missouri Western State College.

ROTC SUBSISTENCE: Students enrolled in the junior and senior Military Science courses automatically receive a tax-free stipend of \$100 per month for the duration of each school year, not to exceed 10 months per year.

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

FEDERATED WOMEN'S CLUB SCHOLARSHIP: This scholarship was established in July 1972 by the St. Joseph Chapter of the organization. The guidelines of the scholarship require that the recipient be a graduate of the St. Joseph Public or Parochial

School System and have completed at least one year at the College with a satisfactory grade point average. Application is made to the Scholarship Committee. From the applicants, the Committee selects the student who is best qualified from the standpoint of scholarship and financial need.

DeSOTO McCABE MEMORIAL SCHOLARSHIP: The DeSoto McCabe Memorial Scholarship has been established to fund one \$500.00 Scholarship to a student who meets the following criteria:

1. Demonstrates financial need through the ACT's Family Financial Statement analysis.
2. A graduate from the St. Joseph, Missouri School District. (All other things being equal- preferably a graduate of Lafayette High School.)
3. Reasonably capable of completing college level work to a baccalaureate degree.

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

Scholarships Having no Specific Requirements

ANNE LOWELL WELLS FUND: This fund was created by the International Relations Club and furthered by the Cheshire Cheese Club in memory of Miss Anne Lowell Wells, a deceased member of the faculty. The interest from this fund is available to a deserving student.

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

C. R. BRAY ANNUAL ARTS AWARD: Established in 1959 by the Bray Studio, this award is an expression of interest in the future leadership of our community and country. The aim of this award is to encourage interest in higher education among students participating on high school and college annual staffs. Several awards are presented each year in the amount of \$50 or \$100 to worthy students in recognition of their outstanding achievements and services. Applications should be submitted to the Scholarship Committee.

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

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

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

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

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

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

MISSOURI WESTERN STATE COLLEGE FOUNDATION

The Missouri Western State College Foundation is a non-profit corporation established to secure gifts, monies, grants and contributions for the college.

Funds are accepted from all sources—individuals, corporations, and organizations, to be used by the college at the discretion of the donor.

Funds are used to benefit students at Missouri Western through the Student Matching Loan Fund as well as the college in its entirety with gifts and contributions to develop an institution of higher learning.

STUDENT SERVICES, ACTIVITIES AND ORGANIZATIONS . . .

STUDENT CONDUCT

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

STUDENT SERVICES

ACADEMIC ADVISEMENT

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

Academic advisement is available to students at Missouri Western State College in the following manner. During each registration period (F-S-SS) information will be collected on the orange update card from all students indicating (1) degree objective, (2) major area of study and (3) student classification. Baccalaureate degree seekers must declare a degree and major objective at or before 55 credit hours. Associate degree seekers must declare a degree and major objective at or before 20 credit hours. Certificate seekers must declare a major upon entry to the institution (Non-degree seeker). Computer printouts will show degree, major and classification of all currently enrolled students by academic departments. Undeclared majors will be advised by the Counseling Center and declared majors will be advised by the academic department using whatever procedure it desires. The flexibility would exist to (1) group advise, (2) assign students to individual professors, (3) let students choose advisor, (4) let anyone in the department advise, (5) assign a professor with a light teaching load more advisees, etc.

Student records—each department will receive a computer printout showing its currently enrolled advisees. Any student who makes a change in his degree or major during registration will be responsible for notifying his former major department or Counseling Center and requesting them to forward his advisory records to the new major department by campus mail. This would permit each department to discuss the student's objective, potential, chance of success, etc. Each department would receive grade mailers by department for all advisees from the Computer Center to update its records.

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

COUNSELING

The Counseling Center is located in the Administration Building. Counselors assist students in becoming oriented to the college, selecting courses, making a career choice, and understanding and attempting to resolve their personal problems.

Every new student is offered the opportunity for a personal interview with a counselor and may attend a slide presentation which answers many questions about procedure and offers an overview of Missouri Western State College. Students may arrange future interviews with a counselor whenever they desire. Counselors attempt to help the student reach a state of self-reliance through a clearer understanding of himself and his own potentialities.

TESTING

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

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

HOUSING

Campus. These structures are contemporary in design. Each suite includes a large living room with two adjoining bedrooms on either side so that a total of eight students may occupy a suite. Each suite also has its own outside entrance, a patio and self contained air-conditioning and heating units. For additional information concerning occupancy, contact the Housing Coordinator.

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

COLLEGE CENTER

The College Center is the center of student activities. It houses the Bookstore, Cafeteria, Snack Bar, Health Services and Placement Center. Among the offices are the Dean of Students, Director of Testing, Student Government Association, College Center Board, Security and Coordinator of College Center Activities. Recreational equipment is also available in the basement area commonly known as the Rathskeller.

BOOKSTORE

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

HEALTH SERVICES

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

Before his admission is completed, each prospective full-time student must supply a student-completed medical history form. All health records, including a permanent daily record of students' visits to the Health Services Center and of the care given to them, are filed in the Health Services office.

STUDENT HEALTH INSURANCE

As a service to students, a health plan is made available to students each year. It is strictly voluntary. After a plan is submitted to several insurance companies, the lowest bid is accepted. From that point on, the college ceases responsibility for the insurance program. This is in accordance with a recent ruling by the Attorney General of Missouri. The Student Health Service strongly recommends that students not covered by a family health insurance plan obtain this coverage. It is extremely important for those students who are living away from home.

LIBRARY

In the pleasant atmosphere of the Hearnes Learning Resources Center students may study and relax. The building houses 86,000 volumes, periodicals for research and recreation, microprint material, films, records, filmstrips, tapes and a variety of other print and non-print materials, making information available in the most suitable media.

Professional librarians are available at all hours of library access to give guidance and suggestions in locating research materials. Open stacks give students easy access to all of the materials. Individual study carrels allow for private study, while the student lounge offers respite from the books. Students have seminar rooms for group study available to them. One of the most attractive buildings on campus, the LRC offers aesthetics while being functional.

OFF-CAMPUS SERVICES

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

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

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

PLACEMENT OFFICE SERVICES

The Placement Service is maintained to assist present and former graduates of the College in finding employment.

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

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

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

ALUMNI ASSOCIATION

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

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

STUDENT ACTIVITIES

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

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

ATHLETICS

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

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

The "MW" Club is for varsity intercollegiate award winners. The purpose of this group is to foster the sportsmanship, citizenship, and general wholesomeness acquired in intercollegiate athletics. The club is governed by elected officers under the supervision of the Athletic Department.

INTRAMURALS

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

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

DRAMATICS

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

MUSIC

Music activities include participation in the college band, various instrumental ensembles, the college chorus, and vocal ensembles. Although these activities are sponsored by the Department of Fine Arts, any student may be eligible for participation.

SOCIAL LIFE

The social life changes from year to year in an effort to meet the current needs and interests of the student body, and the college community. Some of the traditional events are: the Icebreaker Dance at the beginning of the year, the Homecoming Dance, the Christmas Classic Dance, Ugly Man on Campus Dance and the Spring Formal. Additional social events are developed and sponsored by the various organizations and interest groups on the campus.

STUDENT ORGANIZATIONS

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

DEPARTMENTAL CLUBS

Agriculture Club
 Biology Club
 Computer Science Club
 History Club
 Journalism Club
 Judo Club
 Jus Deliberandi Society
 Lettermen's Club
 Missouri Student Teachers Association
 Modern Dance Club
 Music Educators National Conference
 Para Medical Club
 Phi Beta Lambda (Business Club)
 Physical Education Majors and Minors Club
 Social Work Club
 Sports Club for Women
 Technology Club
 Veblen Politico Economic Society
 (for Student interested in Economics)
 Student Art League
 Sigma Tau Delta

SOCIAL

Sororities
 Delta Zeta
 Phi Mu
 Sigma Kappa

Fraternities

Delta Chi
 Lambda Chi Alpha
 Sigma Phi Epsilon
 Tau Kappa Epsilon

RELIGIOUS

Bahai' Club
 Fellowship of Christian Athletes
 Journey Inn

MISCELLANEOUS

Brothers and Sisters United
 Inter-Greek Council
 International Students Club
 Rodeo Club
 Trap and Skeet Club

SERVICE

Alpha Phi Omega
 Circle K Club
 Rotaract Club

DEGREE PROGRAMS

BACCALAUREATE DEGREE PROGRAMS

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

General Degree Requirements

- (1) General Education Requirements
- (2) Minimum of 124 credit hours
- (3) Cumulative grade point average of 2.00 (C average)
- (4) Candidates for degrees at Missouri Western State College must have a GPA of 2.00 or better in courses comprising the major in addition to meeting other institutional graduation requirements.
- (5) Minimum of 30 semester hours in upper division courses (numbers in the 300's and 400's with adjustments in the two plus two programs)
- (6) Last 30 semester hours earned at Missouri Western State College.
- (7) The **Graduate Record Examination** will be a graduation requirement for all seniors except in those instances where a department has selected an appropriate substitute for its major. Such a substitution must be approved by the appropriate dean and the Vice President for Academic Affairs.

GRE TEST DATES

December 13, 1975
 April 24, 1976
 June 12, 1976

APPLICATION DEADLINES

October 31, 1975
 March 22, 1976
 May 3, 1976

The baccalaureate degrees offered are:

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

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

The Bachelor of Science degree is based on concentrated study in one or more sciences. It is usually pursued by students who plan to apply this knowledge in the scientific areas of health, research, and industry. This degree is available with a major in medical technology, computer science, economics, psychology, biology, chemistry, mathematics, history, political science, sociology, agriculture, recreation, and data processing.

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

The Bachelor of Science in Education degree is designed to equip well-qualified individuals for careers in teaching or education. Upon completion of the degree requirements, the candidate will meet certificate requirements for the State of Missouri and be prepared for graduate study in education and related fields. This degree is available with majors in physical education; elementary education; and secondary education in the areas of basic business, business skills, mathematics, biology, English, speech and theatre, social science, art, music, chemistry, modern language, history, political science, and sociology.

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

The Bachelor of Science in Technology "Two plus Two" degree is designed for the student who has completed an associate degree program and desires the bachelor's degree with an additional emphasis in a cognate field. A student must complete the general education and general college requirements for the degree.

GENERAL STUDIES PROGRAM

Basic Guidelines for the General Studies Program

1. Besides the courses listed, a student may be allowed to substitute another course in the same academic area provided the department in which the course is taught can determine that the student meets the prerequisite for that course.
2. A student may elect a maximum of six (6) semester hours of pass-fail credit in the General Studies Program.
3. A student may attempt a test out in most of the General Studies credit.

Category One

9 Credit Hours

- English Composition6 Credit Hours
 ENG 104 and ENG 108, or credit by examination and ENG 112
 Speech—one course from the following3 Credit Hours
 SPH 104 Oral Communication
 SPH 105 Professional Speaking
 SPH 106 Public Speaking

Category Two

9 Credit Hours

- One course from the following3 Credit Hours
 (Test-out strongly encouraged)
 HIS 140 American History
 HIS 150 American History
 PSC 101 American Nat. Govt.
 Two courses from the following6 Credit Hours
 ECO 260 Principles of Economics
 GEO 100 World Geography
 HIS 100 Ancient and Medieval Civ.
 HIS 110 Modern Civilization
 PSY 101 General Psychology
 SOC 110 General Sociology
 SOC 120 Cultural Anthropology
 SWK 250 Social Prob. & Soc. Change
 MIL 110 The Defense Establishment in Natural Security and
 MIL 200 American Military History
 (Both courses must be taken to total 3 cr. hrs.)

Category Three

9 Credit Hours

- Option 1
 Literature3 Credit Hours
 ENG 210 Approaches to Literature
 or
 a Foreign Language Lit. course
 Electives from the following:6 Credit Hours
 (a) Philosophy
 (b) Foreign Language
 (c) Art
 (d) Music
 (e) Theatre
 (f) Literature
 (g) Three semesters in the following:
 JOU 126 Journalism Laboratory
 THR 140 Production Participation (Theatre)
 SPH 151 Laboratory Forensics (Speech)
 MUS 110 Chorus
 MUS 112 Vocal Ensemble
 MUS 124 Symphony Orchestra
 MUS 131 Symphonic Winds
 MUS 333 Stage Band
 MUS 135 Marching Band

Option 2	9 Credit Hours
Humanities I—HUM 203	3 Credit Hours
Humanities II—HUM 205	3 Credit Hours
Electives from the following:	3 Credit Hours
(a) Philosophy	
(b) Foreign Language	
(c) Art	
(d) Music	
(e) Theatre	
(f) Literature	
(g) Three semesters in the following:	
JOU 126 Journalism Laboratory	
THR 140 Production Participation (Theatre)	
SPH 151 Laboratory Forensics (Speech)	
MUS 110 Chorus	
MUS 112 Vocal Ensemble	
MUS 124 Symphony Orchestra	
MUS 131 Symphonic Winds	
MUS 333 Stage Band	
MUS 135 Marching Band	

Category Four	12 Credit Hours
Natural Science	9 Credit Hours
Minimum of 9 Credit Hours selected from the following:	
BIO 101 Principles of Biology	5 Credit Hours
CHE 101 Introductory Chemistry	5 Credit Hours
PHY 101 Concepts and Principles of Physics	4 Credit Hours
ESC 204 Introduction to Geology	4 Credit Hours
Mathematics	3 Credit Hours
Any college level math course selected from those math courses listed under the Department of Mathematical Sciences and numbered 101 or higher.	
Category Five	4 Credit Hours
PED 101 Physical Education Concepts	1 Credit Hour
Activities (to be determined by concepts course)	3 Credit Hours

PASS-FAIL OPTION OF THE GENERAL STUDIES PROGRAM

The major objective of the Pass-Fail option is to encourage a student to explore academically. He may choose a course in an area that he would normally avoid under a regular grading system because of lack of background. The Pass-Fail option, therefore, extends the concept of the General Studies program at Missouri Western State College.

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

1. No student may accumulate more than six semester hours of Pass-Fail credit in the General Studies program.
2. A student who passes the course (instructor indicating a letter grade of A, B, C, or D) receives credit without a grade, while the student who fails the course (instructor indicating a letter grade of F) receives an entry on the transcript to indicate the course was attempted.
3. A student may take all six semester hours credit on a Pass-Fail basis in one semester if he so desires.
4. Although course pre-requisites are not as important in the Pass-Fail option, a student who does not meet a pre-requisite should consult the chairman of the department in which the course is offered if a Pass-Fail option is considered.
5. If, due to a change of the declared major, a course in the new major has been taken on a Pass-Fail basis, then the adviser, department chairman, and division dean will determine the acceptability of the Pass-Fail course in the new major.
6. A student must designate in the Registrar's Office the Pass-Fail option during the fourth week after the first day of classes.
7. A student's instructor will not be informed that the student is enrolled under the Pass-Fail option. Current procedures will be followed by sending the mid-term grades and final grades from the instructor to the Registrar. In the Records Office the student's grade will be converted to Pass-Fail credit.
8. A course completed under the letter grade in which a D or F was earned may be repeated on a Pass-Fail basis.
9. Courses taken under the Pass-Fail option will not be considered in the compilation of honor rolls, probation status list, and suspension status list.

ASSOCIATE DEGREE PROGRAMS

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

General Degree Requirements

- (1) General Education Requirements
- (2) Minimum of 62 credit hours
- (3) Cumulative grade point average of 2.00 (C average)
- (4) Last 15 semester hours earned at Missouri Western State College
- (5) Candidates for degrees at Missouri Western State College must have a GPA of 2.00 or better in courses comprising the major in addition to meeting other institutional graduation requirements.

The associate of science degree is designed for the student who desires a concentrated program (usually technical in nature) in preparation for employment in business, industry, or public services. The degree is available with majors in agri-business, agricultural supply technology, automotive service management, data processing, drafting and design, executive secretary, criminal justice, nursing, pilot training, electronic engineering technology, and mid-management.

GENERAL EDUCATION REQUIREMENTS FOR ASSOCIATE DEGREES

		Credit Hrs.
AREA I	Communications	
	ENG 104 Composition and Rhetoric I	3
	One of the following courses:	3
	SPH 104 Oral Communication	
	SPH 105 Professional Speech	
AREA II	SPH 106 Public Speaking	
	Social Sciences	
	One of the following courses	3
	PSC 101 American National Government	
	HIS 140 American History to 1865	
AREA III	HIS 150 American History Since 1865	
	Humanities	
	One of the following courses:	3
	THR 113 Introduction to Theatre	
	HUM 203 Humanities I	
	HUM 205 Humanities II	
	HUM 210 Introduction to Philosophy	
	FRE 102 Elementary French I	
	GER 102 Elementary German I	
	SPA 102 Elementary Spanish I	
AREA IV	ART 100 Introduction to Art	
	MUS 101 Perspectives in Music	
	Physical Education	
	PED 104 Concepts of Physical Activity	1
	Physical Education Activity	1
	TOTAL	14 Credit Hrs.

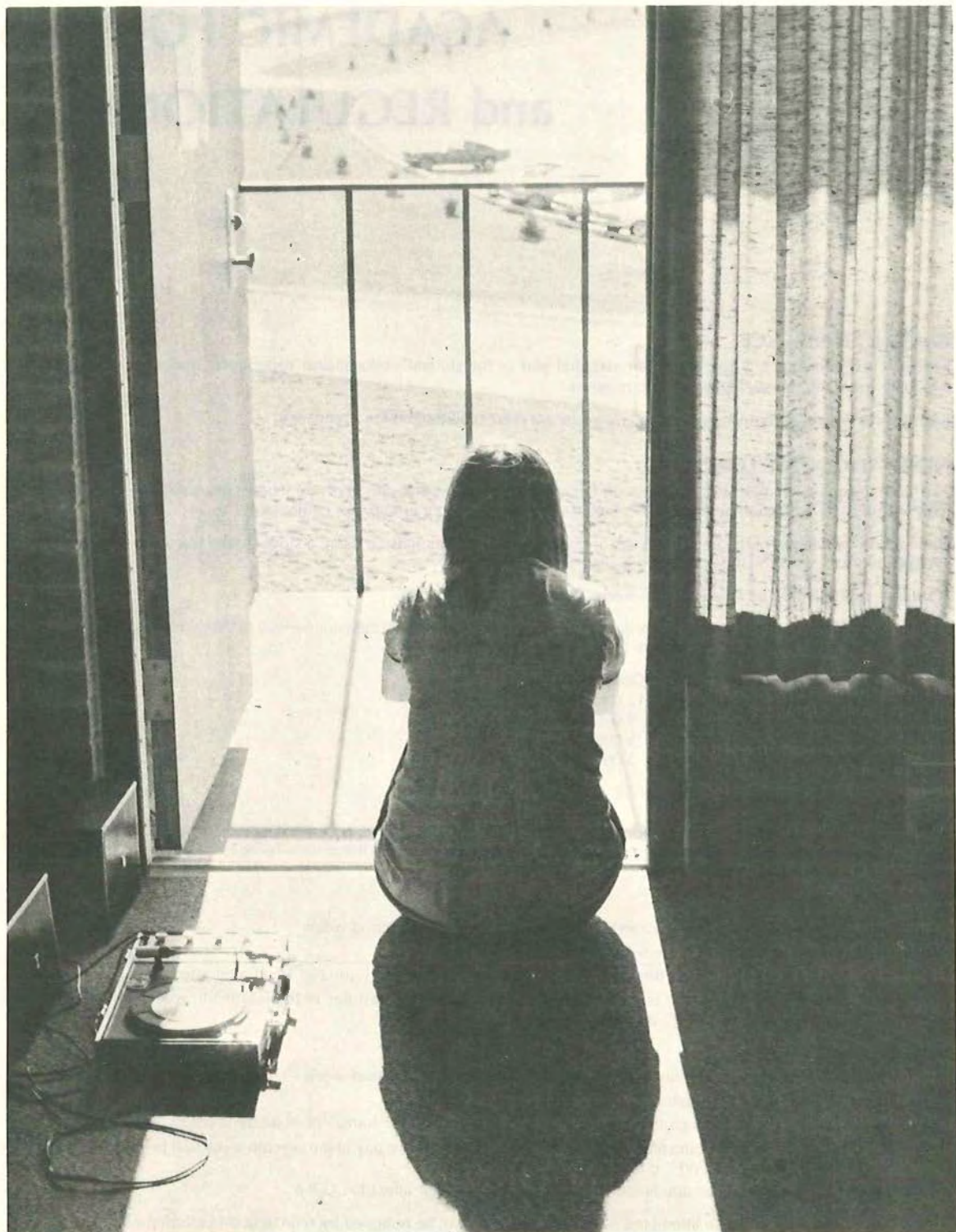
ONE-YEAR CERTIFICATE PROGRAMS

Missouri Western State College offers a One-year Certificate in Secretarial Training or Clerical Training designed for the student who desires a concentrated program in preparation for the secretarial field. Students must complete a minimum of 26 credit hours with a grade point average of 2.00 (C average) to qualify for this certificate.

GENERAL EDUCATION REQUIREMENTS FOR THE ONE-YEAR CERTIFICATE

		Credit Hrs.
AREA I	Communications	
	ENG 104 Composition and Rhetoric I	3
AREA II	Social Sciences	
	One of the following courses	3
	PSC 101 American National Government	
	HIS 140 American History to 1865	
AREA III	HIS 150 American History Since 1865	
	Physical Education	
	Physical Education Activities	1
	TOTAL	7

Credit Hrs.



ACADEMIC POLICIES and REGULATIONS . . .

CLASS ATTENDANCE

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

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

NORMAL COURSE LOAD

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

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

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

Students who find it necessary to work in order to attend college should adjust their course load to their work load. Students should use the following schedule as a guideline to determine their course load:

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

CHANGE OF SCHEDULE

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

REGULAR SEMESTER

1. **Add or Drop**—Prior to the first meeting of the class during the second week.
2. **Drop Only**—Third through the tenth week.
 - a. Courses dropped through the tenth week will not appear on the transcript as an attempted class.
 - b. Courses dropped after the tenth week and until the end of the last day of the fourteenth week and will be assigned a grade of "WP" if passing or "WF" if failing.

SUMMER SESSION

1. **Add or Drop**—Prior to the first meeting of the class during the second week.
2. **Drop Only**—Second through the fifth week.
 - a. Courses dropped through the fifth week will not appear on the transcript as an attempted class.
 - b. Courses dropped after the fifth week and until the end of the last day of the seventh week will be assigned a grade of "WP" if passing or "WF" if failing.

A "WP" grade does not count as attempted course work and will not affect the G.P.A.

A "WF" does count as a course attempted (same as "F"), but may be removed by repeating and earning a higher grade.

GRADING SYSTEM

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

Letter Grade	Level of Performance	Grade Points Earned
A	superior	4 for each credit hr.
B	good; above average	3 for each credit hr.
C	average	2 for each credit hr.
D	minimum passing; below average	1 for each credit hr.
F	failing	0 for each credit hr.
Inc.	incomplete	
W	withdrawal	
WP	withdraw passing	
WF	withdraw failing	
Aud.	audit	
Cr.	credit	

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

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

INCOMPLETE GRADES

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

HONOR LISTS

PRESIDENT'S

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

DEAN'S

A Dean's Honor List is published at the end of each semester. To be included on the Dean's List, a student must be carrying twelve or more credit hours of work with a grade point average of 3.00 or higher exclusive of pass/fail credit.

RECORDS OF ACADEMIC WORK AND TRANSCRIPTS

Unofficial transcripts will be stamped, "Unofficial, For Campus Use Only", and will not contain a certifying signature, date of issue, or college seal. Such transcripts must be picked up in the Records Office. The fee for such transcripts will be \$.50 per copy.

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

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

TABLE OF ACADEMIC STANDARDS

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

SCHOLASTIC PROBATION

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

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

SCHOLASTIC SUSPENSION

A student places himself on scholastic suspension if his cumulative grade point average drops below the following minimum requirements:

1. Must have completed 20 or more semester hours of course work and have been on probation the previous semester.
2. More than eighteen (18) grade points below a 2.0 (C) cumulative grade point average.
3. No student with a cumulative Grade Point Average of 1.85 or above will be suspended.
4. No student with a term G.P.A. of 2.0 or above will be suspended.
5. Any student placed on Scholastic Suspension has the right to appeal his case in writing to the Academic Regulations & Standards Committee.

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

READMISSION

A student placed on scholastic suspension the first time may be readmitted after the lapse of one academic semester provided that he file a written petition for return at least four weeks prior to the beginning of the session when eligible to return. Such petition should be directed to the Coordinator of Admissions. A student placed on scholastic suspension the second time after being readmitted may again be readmitted after the lapse of one academic year provided that he file a written petition for return at least eight weeks prior to beginning of the session when eligible to return. Such petition should be directed to the Academic Regulations and Standards Committee and submitted to the Registrar.

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

REPEATING COURSES

A student is permitted to repeat any course. Grades earned in the last attempt are used in calculating grade point average.

WITHDRAWAL FROM COLLEGE

Students who, for any reason, find it necessary to withdraw from college during the course of a semester are required to notify the Registrar and Records Office. Since honorable withdrawal is ordinarily required for transfer from one college to another, a student should not discontinue college work without formal withdrawal. Students who do not withdraw officially will have "failing" recorded in all subjects.

The procedure followed in a withdrawal is:

1. A student may initiate a withdrawal from college by contacting the Records Office through (a) personal visit, (b) telephone or (c) letter.
2. For those enrolled in evening and Saturday classes, this contact point may be the Office of the Coordinator thereof, who will relay the information to the Records Office.
3. The effective date of withdrawal will be the date on which the student made the initial contact.
4. When a student withdraws from COLLEGE during a regular semester, the status in each subject will be recorded "WP" or "WF" after the tenth week. When a student withdraws from college during summer session, the status in each subject will be "WP" or "WF" after the fifth week.

REQUIREMENTS FOR GRADUATION . . .

STATE LEGISLATION REQUIREMENT

Section 10370, 10374, 10374a, 10374b, 10374c (SCS for SB4) of the laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the State of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

DEGREE EVALUATION

When a baccalaureate degree candidate has earned 80 semester hours or during the semester prior to classification as a senior, he will complete a baccalaureate degree evaluation form. The student, along with the major adviser, division dean and the Registrar, evaluates progress toward a degree and projects the courses needed to fulfill the requirements for this degree.

Associate degree candidates will complete this form when 25 hours have been earned or during the semester prior to classification as a sophomore.

APPLICATION FOR GRADUATION

To be considered as a candidate for graduation, it is required that the student declare candidacy by filing an Application for Graduation at the time of registration for the last semester on campus or if graduating in the summer at the time of registration for the spring semester.

Payment of the \$15.00 graduation fee must be made during the semester in which all degree requirements will be completed.

GRADUATE HONORS

Students completing degree requirements with a cumulative grade point average of 3.90 or higher will be graduated with Highest Honors (summa cum laude). Those who have earned a grade average of 3.75 or higher but below 3.90 will be graduated with High Honors (magna cum laude). Those who have earned a grade average of 3.50 or higher but below 3.75 will be graduated with Honors (cum laude).

MULTIPLE DEGREES AND DOUBLE MAJORS

The College will confer two baccalaureate degrees provided the following conditions are met:

1. Graduation requirements for each degree are satisfied.
2. A minimum of 144 hours are earned.
3. A \$5.00 fee is paid for each additional diploma.

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

COMMENCEMENT

Commencement is held at the end of the spring semester. It is a voluntary activity on the part of the student.

Candidates for degrees, who will complete all requirements for the degree during the summer session, may elect to attend spring commencement. Names will appear on the commencement program and the candidates will be recognized. The degree will not be awarded until the close of the summer session.

TRANSFER PROGRAMS

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

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

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

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

**Missouri Western State offers three years of Engineering courses for transfer purposes to the University of Missouri.

DESCRIPTION OF COURSES

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

COURSE NUMBERING SYSTEM

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

- 000-099 Courses that usually do not apply toward a degree.
- 100-199 Freshman level courses
- 200-299 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.

CREDIT UNITS

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

SEMESTER DESIGNATION

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

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





The Division of APPLIED SCIENCES

THE DEPARTMENTS OF:

*Agriculture
Business and Economics
Engineering and Technology
Military Science
Nursing*

*Career Programs
The Center for Continuing Education*

The Division of Applied Sciences seeks to prepare individuals to assume productive roles in business and industry, health care agencies, and the public services.

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

The "Career Ladder" concept characterizes the programs offered in the Division of Applied Sciences. One-year certificates, two-year associate degrees, and four-year baccalaureate degrees are offered which allow the individual student to graduate from the College prepared to seek employment at various vertical entry levels in his or her chosen career field. The "Two-Plus-Two" baccalaureate degree offers the individual, who has completed an occupationally oriented associate degree, the opportunity to pursue the four-year degree if his or her career goals change.

department of AGRICULTURE

Agriculture has changed tremendously in recent years and is continuing to do so. It is no longer simply "farming." Today's agricultural industry includes three broad areas:

- 1) research and education, 2) production of food and fiber, and 3) business and industry

which provides goods and services in the processing and distribution of farm products. Undergraduate curricular offerings in the Department of Agriculture are designed to provide students with a broad general education and still maintain the flexibility of allowing students sufficient opportunity to select specific general and professional electives to satisfy their special needs and desires.

The Department of Agriculture offers diversified programs leading to Associate of Science or Bachelor of Science Degrees. An Associate of Science Degree is granted in Agricultural Technology and Agri-Business Technology. Areas of specialization for the Bachelor of Science Degree include Agronomy, Animal Science, and General Agriculture.

THE CORE CURRICULUM OF THE BACHELOR OF SCIENCE AGRICULTURE PROGRAMS IS AS FOLLOWS:

100 Agriculture Economics	4	
120 Plant Science	4	
130 Animal Science	4	
222 Soil Science	4	
236 Fundamentals of Animal Nutrition	4	20

ADDITIONAL MAJOR REQUIREMENTS ARE:

General Agriculture

Agriculture electives		30
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Agriculture Economics

304-Farm Management	3	
Agronomy electives	6	
Animal Science electives	6	
Agriculture Economics electives	15	30

Agronomy

320-Soil Fertility	4	
Agriculture Economics electives	6	
Animal Science electives	5	
Agronomy electives	15	30

Animal Science

339-Livestock Evaluation	3	
Agriculture Economics electives	6	
Agronomy electives	6	
Animal Science electives	15	30
		50

THE CORE CURRICULUM OF THE ASSOCIATE AGRICULTURE PROGRAMS IS AS FOLLOWS:

100 Agriculture Economics	4	
120 Plant Science	4	
130 Animal Science	4	
200 Farm Marketing	3	
222 Soil Science	4	
236 Fundamentals of Animal Nutrition	4	
290 Occupational Experience	1-8	
320 Soil Fertility	4	28-35

ADDITIONAL MAJOR REQUIREMENTS ARE:

Agricultural Supply Technology

204 Agri-Supply Management	4	
224 Grain Handling	3	
326 Agriculture Chemicals	3	
330 Applied Animal Nutrition	4	14

Agri-Business Technology

110 Business Organization	3	
230 Principles of Financial Accounting	3	
374 Salesmanship	3	
310 Business Law	3	
312 Principles of Management	3	
		14
		42-50

AGRICULTURE ECONOMICS

- AGR100 Agriculture Economics (4) i, ii**
Economic principles underlying the organization of agriculture; problems of production and distribution and relations of governmental programs to agriculture.
- AGR200 Farm Marketing (3) i**
Principles underlying the marketing of farm products with emphasis on cooperative marketing.
Prerequisite: Agriculture 100.
- AGR204 Agri-Supply Management (3) i even years.**
A comprehensive course in the problems of managing a retail farm supply store. Included are product knowledge, personnel policies and relationships, purchasing and sales techniques, inventory methods, stock control, cash flow and merchandising.
- AGR206 Financing the Farm Business (3) ii**
Principles involved in financing a farm business. Sources and uses of farm credit necessary for sound financial management.
Prerequisite: Math 103.
- AGR302 Farm Management (3) i (offered even numbered years)**
A study of the principles of farm management and farm organization. Selection of farm enterprises, farm credit, leases and types of farming adapted to a given farm are included.
Prerequisite: Agriculture 100.
- AGR304 Farm Accounting and Business Analysis (3) * i (offered odd numbered years)**
Purpose and methods of keeping farm records, procedures in accounting; income and net worth statements; analysis of the farm business; and use of accounts for tax purposes.
Prerequisite: Agriculture 100.
- AGR306 Farm-Land Economics and Appraisal (4) ii (offered odd numbered years)**
Analysis of economic principles influencing land use, theories of renting, prices, taxes, types of tenure and transfer, and interest rates to value. Appraisal reports.
Prerequisite: Agriculture 100.
- AGR400 Farm Price and Policy Analysis (3) ii (offered even numbered years)**
Economic and econometric principles applied to price movements and policy considerations in agriculture.
Prerequisite: Agriculture 100.
- AGR402 Agricultural Law (3) ii (offered odd numbered years)**
The legal framework impinging upon decision making by farm firms, families and individuals: liabilities, real and personal property, contracts, farm commercial code, organization of farm firms, inter-generation property transfer, water and fence laws, federal and state regulatory powers and insurance.
Prerequisite: Senior standing or consent of instructor.

AGRICULTURAL MECHANIZATION

- AGR210 Farm Power (3) ii (offered even numbered years)**
The study of the fundamentals and system of power units. Particular attention is given to the development of power and its transmission.

AGRONOMY

- AGR120 Plant Science (4) i**
Principles of production and management. Importance and ecology of each crop is discussed. New practices and varieties are emphasized. Laboratory will include a study of the plant and plant parts.

- AGR222 Soil Science (4) i**
The origin, formation, and characteristics of different soil types; emphasis placed on soils of Missouri. Laboratory includes field trips.
Prerequisite: Chemistry 101.
- AGR224 Grain Handling and Grading (4) ii even years.**
Grain movement from producer to consumer and factors influencing these procedures. Application of the Federal standards for grading farm crops and judging of grains.
Prerequisite: Agriculture 120 and 200.
- AGR320 Soil Fertility (4) ii**
The use and management of lime and fertilizer on soils. Emphasis is placed on individual nutrient utilization.
Prerequisite: Agriculture 120 and 222.
- AGR322 Forage Crop Management (3) ii**
Ecology, insects, diseases, culture, uses and management of forage will be studied. Laboratory will include plant and seed identification and field trips.
Prerequisite: Agriculture 120.
- AGR324 Diseases of Field Crops (2) ii (offered odd numbered years)**
Detail study of disease of field crops and forages that cause economic loss to the producer.
Prerequisite: Agriculture 220.
- AGR326 Agriculture Chemicals (3) i**
An introduction to the field of agricultural chemistry including herbicides, insecticides, fungicides, and nematodes. Types of materials, methods of use and safety measures to be used.
Prerequisite: Agriculture 220 and 320.
- AGR420 Soil Conservation and Management (3) ii**
Conservation and management of soils with respect to erosion, depletion, fertility, physical improvement and crop production. Includes farm surveying, design and layout of terrace systems, drainage and farm ponds.
Prerequisite: Agriculture 120 and 320.

ANIMAL SCIENCE

- AGR130 Animal Science (4) i**
An introductory course in animal science with emphasis on fundamental concepts of animal breeding, management, marketing, nutrition and physiology as they apply to the livestock industry.
- AGR230 Breeds of Livestock (3) ii**
Origin, development characteristics and adaptation of the different breeds of livestock. Laboratory work will consist of livestock judging.
Prerequisite: Agriculture 130.
- AGR234 Dairy Evaluation (2) i**
Selection of breeding animals. Comparative terminology, decision making and presentation of oral reasons. Enrollees represent the college in Inter-collegiate Dairy Judging.
Prerequisite: Agriculture 230.
- AGR236 Fundamentals of Animal Nutrition (4) i**
Study of various nutrients; their function, digestion and metabolism by various species of animals.
Prerequisite: Agriculture 130 and Chemistry 101.
- AGR330 Applied Animal Nutrition (3) ii**
Measure of the nutritive value of feeds, nutrient requirements of the various species of livestock, sources and composition of nutrients, ration formulation, preparation of feeds, feed additives and food and drug regulations.
Prerequisite: Agriculture 236.

AGR332 Beef Production (3) ii (offered odd numbered years)
Production, management, marketing and nutrition of commercial and purebred cattle.
Prerequisite: Agriculture 236.

AGR333 Dairy Production (3) ii (offered even numbered years)
Development of dairy cattle breeds, principle and practices of dairy cattle feeding, management and selection of breeding animals for dairy herds.
Prerequisite: Agriculture 236.

AGR334 Horse Production (3) i (offered odd numbered years)
Basic principles of horse breeding, color, inheritance, health, management, nutrition, and marketing of equine.
Prerequisite: Agriculture 236.

AGR335 Poultry Production (3) ii (offered odd numbered years)
A study of breeds, breeding, common diseases, housing and efficient management nutrition and marketing of eggs and poultry.
Prerequisite: Agriculture 236.

AGR336 Sheep Production (3) ii (offered even numbered years)
Production, management, marketing and nutrition of breeding flocks and feedlot lambs.
Prerequisite: Agriculture 236.

AGR337 Swine Production (3) i (offered even numbered years)
Methods of breeding, feeding, marketing and management of purebred and commercial swine.
Prerequisite: Agriculture 236.

AGR338 Animal Breeding (3) i
The study of mating systems and application of genetic principles and practices to the improvement of domestic animals. The use and value of Performance Testing. Lecture and discussion.
Prerequisite: Agriculture 130.

AGR339 Livestock Evaluation (3) i
Selection of beef, horses, sheep and swine for specific uses. Comparative terminology, grading, judging and presentation of oral reasons. Enrollees represent the college in livestock judging contests.
Prerequisite: Agriculture 230.

AGR430 Seminar (1) i, ii
Independent reading within the several disciplines in animal science, summarized and presented orally to students and staff.
Prerequisite: Junior or senior standing.

AGR439 Intercollegiate Judging Training and Competition (3) i
Specialized training in evaluating and grading live animals. Field trips to farms and livestock expositions.
Prerequisite: Permission of instructor.

HORTICULTURE

AGR140 Horticulture Science (4) i (offered even numbered years)
Horticulture in daily living; plant growth, environment, propagation, cultivation, pruning, irrigation, protection, harvesting, quality control and selection; homegrounds development and maintenance.

OCCUPATIONAL EXPERIENCE

AGR290 Occupational Experience (1-8) i, ii, iii
Internship under the supervision of a college instructor. Students will be assigned according to their preparation and interests to intern in a governmental agency, agricultural loans, floriculture, herdsmanhip, industrial organization, or other agriculturally oriented agency of their interest. They will work with administrative and operational personnel at several levels.
Prerequisite: Consent of department chairman.

AGR490 Special Problems (1-4) i, ii, iii
Open to junior and senior students in agriculture economics, agronomy, animal science and horticulture showing satisfactory preparation for problems chosen and with permission of instructor. Individual topic, conferences and preparation of reports. A) Agriculture Economics, B) Agronomy, C) Animal Science, and D) Horticulture.

SAMPLE PROGRAM B.S. in Agriculture

Freshman Year		
Fall Semester		Spring Semester
AGR 100	Agriculture Economics	4
AGR 120	Plant Science	4
AGR 130	Animal Science	4
ENG 104	English Composition	3
PED 101	Concepts of Physical Activity	1
		16
Sophomore Year		
AGR 222	Soil Science	4
AGR 236	Fund. of Animal Nutr.	4
MAT 103	Intermediate Algebra	3
BIO 101	Principles of Biology	5
		16
Junior Year		
HUM203	Humanities I	3
PSY 101	General Psychology	3
	Ag. Major Electives	6
	Minor Elective	3
	P.E. Activity	1
		16
Senior Year		
	Ag. Major Electives	9
	Minor Elective	6
	P.E. Activity	1
		16
CHE 101	Introductory Chemistry	5
ENG 108	English Composition	3
	Forages or Breeds of Livestock	4
	Speech	3
	P.E. Activity	1
		16
AGR 320	Soil Fertility or	
AGR 330	Applied Animal Nutr.	4
SOC 110	General Sociology	3
HUM210	Introduction to Philosophy	3
	Ag. Econ. Elective	3
	Ag. Major Elective	3
		16
HUM205	Humanities II	3
PSC 101	Amer. Nat'l. Gov't. or	
HIS 140	Amer. History or	
HIS 150	Amer. History	3
	Ag. Major Electives	7
	Minor Elective	3
		16
	Minor Electives	3
	Ag. Major Electives	12
		15

SAMPLE PROGRAM Associate of Science

Agriculture Supply Technology

Fall Semester		Freshman Year		Spring Semester	
AGR 100	Agriculture Economics	4	AGR 224	Grain Hand. & Grad.	4
AGR 120	Plant Science	4	CHE 101	Introductory Chemistry	5
AGR 130	Animal Science	4	PED 101	Concepts of Physical Activity	1
ENG 104	English Composition	3		Introductory Humanities	3
				Speech	3
		15			16
		Sophomore Year			
AGR 200	Farm Marketing	3	AGR 320	Soil Fertility	4
AGR 222	Soil Science	4	AGR 330	Applied Animal Nutr.	4
AGR 236	Fund. of Animal Nutr.	4		Ag. Electives	5
AGR 326	Ag. Chemicals	3	PSC 101	Amer. Nat'l Gov't. or	
	P.E. Activity	1	HIS 140	Amer. History or	
			HIS 150	Amer. History	3
		15			16
		Summer Session			
	AGR290 Occ. Experience				1-8

SAMPLE PROGRAM

Associate of Science

Agri-Business

Freshman Year

Fall Semester		Spring Semester	
AGR 100 Agriculture Economics	4	MGT 110 Business Organization	3
AGR 120 Plant Science	4	CHE 101 Introductory Chemistry	5
AGR 130 Animal Science	4	PED 101 Concepts of Physical Activity	1
ENG 104 English Composition	3	Introductory Humanities	3
		Speech	3
	15		15
Sophomore Year			
AGR 200 Farm Marketing	3	MGT 310 Business Law	3
AGR 222 Soil Science	4	MGT 312 Principles of Management	3
AGR 236 Fund. of Animal Nutr.	4	MKT 374 Salesmanship	3
ACC 230 Principles of Financial Accounting	3	Business Elective	3
Ag. Elective	2	PSC 101 Amer. Nat'l Gov't. or	
P.E. Activity	1	HIS 140 Amer. History or	
		HIS 150 Amer. History	3
	17		15
Summer Session			
AGR290 Occupational Experience		1-8	



department of
BUSINESS AND ECONOMICS

The Department of Business and Economics offers diversified programs leading to associate degrees in mid-management and baccalaureate degrees with majors in accounting, business education, economics, management, and marketing. Students receive a general background in the fundamentals of business and economics as well as an opportunity to specialize within a particular discipline. The programs have been designed to prepare the student for a career in the challenging and everchanging field of business as well as the pursuance of advanced degrees. The Department is actively involved in student placement and assists students in meeting potential employers through annual seminars.

FOUR YEAR PROGRAMS

The Department offers the following four-year degrees: Bachelor of Science in Business Administration (with majors in accounting, management, or marketing); Bachelor of Science in Economics; and Bachelor of Science in Business Education (with an emphasis in business skills, basic business, or marketing).

The curricula for these majors are as follows:

I. For the Bachelor of Science in Business Administration and the Bachelor of Science in Economics

Freshman-Sophomore Core

ACC 230 Principles of Financial Accounting	3
ACC 231 Principles of Managerial Accounting	3
ECO 260 Principles of Economics I	3
ECO 261 Principles of Economics II	3
MAT 105 College Algebra	3
MGT 210 Business Statistics I	3
	<hr/>
	18 hours

Professional Core

MGT 310 Business Law I	3
MGT 312 Principles of Management	3
MGT 315 Financial Management	3
MGT 319 Business Communications	3
MKT 370 Principles of Marketing	3
	<hr/>
	15 hours

Additional Major Requirements

Accounting

ACC 330 Intermediate Accounting I	3
ACC 331 Intermediate Accounting II	3
ACC 333 Cost Accounting	3
ACC 336 Tax Accounting	3
ACC 433 Auditing	3
Electives in Accounting	6
	<hr/>
	21 hours

One of the following:

ECO 360 Macroeconomic Theory	3
ECO 361 Price Theory	
ECO 362 Public Finance	
ECO 363 Money and Banking	

One of the following:

MGT 411 Investment Analysis	3
MGT 412 Personnel Management	
MGT 415 Administrative Supervision	
MGT 419 Business Policy	

One of the following:

CSC 245 Introduction to COBOL	3
MGT 311 Business Law II	
MGT 313 Business Statistics II	

TOTAL

 30 hours

Economics

ECO 360 Macroeconomic Theory	3
ECO 361 Price Theory	3
ECO 363 Money and Banking	3
	<hr/>
	9 hours

Four of the following:

ECO 362 Public Finance	12
ECO 364 Labor Economics	
ECO 365 Government Regulation of Business	
ECO 366 International Economics	
ECO 460 Business Cycles and Forecasting	

ECO 462 History of Economic Thought
 ECO 463 Comparative Economic Systems
 ECO 465 Urban and Regional Economics
 ECO 466 Current Economic Problems

One selected business elective 3
—
TOTAL 24 hours

Management

ACC 333 Cost Accounting 3
 MGT 412 Personnel Management 3
—
6 hours

Three of the following:

MGT 316 Principles of Insurance
 MGT 410 Small Business Management
 MGT 411 Investment Analysis
 MGT 413 Real Estate
 MGT 415 Administrative Supervision
 MGT 416 Production Management
 MGT 417 Credit Management
 MGT 419 Business Policy 9

One of the following:

ECO 363 Money and Banking 3
 ECO 364 Labor Economics
 ECO 365 Government Regulation of Business

One of the following:

ACC 330 Intermediate Accounting I 3
 CSC 245 Introduction to COBOL
 PSY 310 Industrial Psychology
 SOC 400 Ethnic and Race Relations
 SOC 420 Collective Behavior

TOTAL 21 hours

Marketing

MKT 374 Salesmanship 3
 MKT 376 Advertising 3
 MKT 470 Marketing Management 3
 MKT 472 Sales Management 3
 MKT 473 Marketing Research 3
—
15 hours

Two of the following:

ECO 361 Price Theory 6
 MKT 371 Principles of Retailing
 MKT 372 Physical Distribution
 MKT 373 Purchasing
 MKT 375 Industrial Marketing
 MKT 377 International Marketing
 MKT 471 Consumer Relations and Behavior

TOTAL 21 hours

II. For the Bachelor of Science in Business Education

Business Education Core

ACC 230 Principles of Financial Accounting 3
 ACC 231 Principles of Managerial Accounting 3
 ACC 330 Intermediate Accounting I 3
 SEC 141 Intermediate Typing 3
 SEC 240 Office Typing Problems 3
 BUS 455 Methods of Teaching Business Subjects 3
 MGT 310 Business Law I 3
—
21 hours

Emphasis Requirements

Skills Emphasis

CSC 182 Introduction to Data Processing 3
 ECO 260 Principles of Economics I 3
 SEC 144 Elementary Shorthand* 3
 SEC 145 Intermediate Shorthand 3

SEC 340 Advanced Shorthand	3
SEC 342 Model Office It	6
MAT 103 Intermediate Algebra	3
MGT 116 Mathematics of Finance	
MGT 210 Business Statistics I	or 3
MGT 110 Business Organization	3
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TOTAL	30 hours

Basic Business Emphasis

CSC 182 Introduction to Data Processing	3
ECO 260 Principles of Economics I	3
ECO 261 Principles of Economics II	3
MGT 210 Business Statistics I	3
MGT 311 Business Law II	3
MGT 312 Principles of Management	3
MGT 319 Business Communication	3
MAT 105 College Algebra	3
MKT 374 Salesmanship	3
Business elective	3
	<hr/>
TOTAL	30 hours

Marketing Emphasis

ECO 260 Principles of Economics I**	3
ECO 261 Principles of Economics II	3
MAT 103 Intermediate Algebra**	3
MGT 210 Business Statistics I	3
MGT 312 Principles of Management	3
MGT 319 Business Communication	3
MKT 370 Principles of Marketing	3
MKT 371 Principles of Retailing	3
MKT 374 Salesmanship	3
MKT 376 Advertising	3
Electives in Marketing	9
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TOTAL	39 hours

*Not to be taken for credit by students who have had one unit of high school credit in this area. Student will substitute a business elective for this credit.

†Students who have taken a two-hour block of secretarial or clerical practice in high school may, with the consent of the advisor, substitute six hours of business electives for SEC 342 Model Office I.

**Students should use ECO 260 and MAT 103 to fulfill General Studies requirements as well as Department requirements.

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

Students majoring in four-year programs in the department must (with the exception of Business Education—Skills Emphasis or Marketing Emphasis) complete a mathematics course at the level of MAT 105 or above. This should be taken during the freshman or the sophomore year.

TWO YEAR PROGRAMS

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

The curricula for these majors are as follows:

Business Core

ACC 230 Principles of Financial Accounting	3
ACC 231 Principles of Managerial Accounting	3
ECO 260 Principles of Economics I	3
ECO 261 Principles of Economics II	3
MGT 110 Business Organization	3

MGT 116 Mathematics of Finance		
	or	3
MGT 210 Business Statistics I		
MGT 312 Principles of Management		3
		<hr/> 21 hours

Major Requirements**Accounting**

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

Banking and Finance

BAN 253 Bank Management	3
ECO 363 Money and Banking	3
MGT 310 Business Law I	3
MGT 315 Financial Management	3
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	12 hours

Two of the following:

AGR 206 Financing the Farm Business	6
BAN 250 Principles of Bank Operations	
BAN 251 Savings and Time Deposit Banking	
BAN 252 Trust Functions and Services	
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TOTAL	18 hours

Data Processing

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

Retailing

MKT 370 Principles of Marketing	3
MKT 371 Principles of Retailing	3
MKT 374 Salesmanship	3
MKT 376 Advertising	3
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TOTAL	12 hours

COURSE DESCRIPTIONS

Prerequisites for courses listed below may be waived at the discretion of the department chairman or the appropriate instructor.

ACCOUNTING

ACC230 Principles of Financial Accounting (3) i, ii, iii
Principles of accounting and their application; forms of business organization (partnership and corporate structure); recording, classifying and summarizing business transactions; and preparation of financial statements. Practice set is a requirement for this course.

ACC231 Principles of Managerial Accounting (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: ACC230

ACC330 Intermediate Accounting I (3) i, ii, iii
Analysis and interpretation of fundamental processes, assets, and equity values with related revenue and expense aspects.
Prerequisite: ACC 231

ACC331 Intermediate Accounting II (3) i, ii
A continuation of the critical study of balance sheet accounts and intensive analysis of financial statements.
Prerequisite: ACC330

ACC332 Accounting Systems and Control (3) i, even years
Design of accounting systems from pen-and-ink journals to electronic data processing including forms design, internal control concepts, and other methods of control (accounting machines, microfilming, and cash registers). Major emphasis on billing, sales, purchases, and payroll procedures.
Prerequisite: ACC231

ACC333 Cost Accounting (3) i, ii, iii
A study of cost accounting procedures with emphasis on the basic theory and procedures of allocating materials, labor, and manufacturing expenses in job order and process cost systems.
Prerequisite: ACC231

ACC334 Budgets and Budgeting Control (3) i, odd years
Theory and procedures in the development of financial and operating budgets as managerial devices for profit planning and general budgetary control in business.
Prerequisite: Accounting 231

ACC335 Government and Institutional Accounting (3) iii, or on demand
Accounting principles and procedures relating to schools, hospitals, and other non-profit institutions, and to cities, counties, and other governmental units.
Prerequisite: ACC 231

ACC336 Tax Accounting (3) i
An introduction to taxation which includes both federal and state taxes which many small businessmen and individuals are subject to. Includes payroll, sales, and income taxes. The area of income taxes includes an exposure to individual, partnership and corporate income taxation.
Prerequisite: ACC 231

ACC430 Advanced Accounting Problems (3) i
An accounting problems course with emphasis on problems facing partnership and corporate business organizations. Major emphasis is placed on: forms of the business organization, maintenance of the business organization, expansion of the business organization (mergers and consolidated statements and contraction of the business organization, liquidations, and re-organizations).
Prerequisite: ACC 331

ACC431 Seminar in Accounting Theory (3) ii
Objective of the course is to familiarize students with the current accounting issues and literature. Includes development of accounting theory, accounting concepts, and objectives of accounting. The course requires students to research basic accounting issues.
Prerequisite: ACC 331

ACC432 Advanced Cost Accounting (3) ii, even years
Special problems of cost analysis such as joint product costs, differential costs, standard costs, estimated costs, budget and distribution costs.
Prerequisite: ACC 333

ACC433 Auditing (3) ii
Verification of records, valuation and analysis of accounts and presentation of conditions. Practical audit cases.
Prerequisite: ACC 331

ACC439 Advanced Tax Accounting (3) ii
Special problems in the area of individual, partnership, and corporate taxation. This includes sales and disposition of property, pension plans, liquidation and re-organization of business organizations. Course also includes tax planning and introduction to federal estate and gift taxation.
Prerequisite: ACC 336

BANKING

BAN250 Principles of Bank Operations (3) ii, at night
Fundamentals of bank functions presented in a descriptive fashion from a broad and operational perspective.

BAN251 Savings and Time Deposit Banking (3) ii, even years at night
Historical development of savings institutions and basic economic functions of the savings process. Review of the economics of the savings process, emphasizing differences between financial savings and savings that lead to capital formation. Different types of financial savings are reviewed in order to describe the system of financial flows of income to capital investment.

BAN252 Trust Functions and Services (3) i, odd years at night
Introduction to the services and duties involved in trust operations. Clarifies distinction between business and legal aspects of trust functions.

BAN253 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

BUS250 Seminar in Office Occupations I (1) i, ii
Seminar to study problems that arise in office situations. To be taken with parallel employment in an approved office occupation.
Prerequisite: 15 semester hours

BUS350 Seminar in Office Occupations II (1) i, ii
A continuation of BUS250 Seminar in Office Occupations I.
Prerequisite: BUS250

BUS455 Methods of Teaching Business Subjects (3) i, ii
A study of the methods and activities for teaching business education in the secondary school. To be taken concurrently with SED303 Experience in Secondary Teaching II.
Prerequisite: Consent of advisor

ECONOMICS

ECO260 Principles of Economics I (3) i, ii, iii
An introduction to basic principles of economics with emphasis on the analysis of unemployment, GNP, inflation, and public debt. Fiscal and monetary theories and public policies are also discussed.

ECO261 Principles of Economics II (3) i, ii, iii
A continuation of economic fundamentals but with emphasis on supply and demand analysis, factor markets, different market structures, international economics, and various current economic problems.
Prerequisite: ECO260

ECO263 Consumer Economics (3) i
A practical course designed to assist students in becoming more rational consumers in such areas as housing, transportation, insurance, and other consumer items. Also covers techniques of financial planning, budgeting, and a variety of investments. Does not count as an economics elective toward a degree in economics.

ECO360 Macroeconomic Theory (3) ii
Intermediate level theory course that examines closely the determinants of GNP, employment, and inflation. Emphasis is placed upon economic model building (both Classical and Keynesian) and the use of monetary and fiscal policies to control the business cycle and inflation.
Prerequisite: ECO261

ECO361 Price Theory (3) i
A theoretical approach to the behavior of the individual buyer and seller in the marketplace. Areas studied include consumer demand theory, costs of production, and the market structures ranging from pure competition to monopoly.
Prerequisite: ECO261

ECO362 Public Finance (3) ii
A study of the principles of taxation and public expenditures, the impact of fiscal policy on economic and social activity, and recent trends in public finance at the federal, state, and local levels.
Prerequisite: ECO261

- ECO363 Money and Banking (3) i**
Continuation and expansion of the money and banking concepts introduced in ECO 260. Areas of study include: money, banks and other financial intermediaries, the Federal Reserve System, concepts of monetary control, monetary policy, and international banking.
Prerequisite: ECO 260 and ACC 230
- ECO364 Labor Economics (3) ii**
Introductory course dealing with the institutional aspects of the American labor force, its organization, wage and employment theory, the economic role of bargaining, and the basic ingredients of public policy toward labor organizations.
Prerequisite: ECO 260
- ECO365 Government Regulation of Business (3) i**
Analysis of the legislative and legal control of business and its implications on the various economic components of the American economy.
Prerequisite: ECO 261
- ECO366 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
- ECO460 Business Cycles and Forecasting (3) i, odd years**
Study of the cyclical fluctuation of the economy by means of theoretical, graphical, and quantitative methods and use of basic economic and business forecasting techniques.
Prerequisite: ECO 261 and MGT 210
- ECO462 History of Economic Thought (3) ii**
Study of the development of various schools of economic thought. Topics covered include classical, neo-classical, institutional, Keynesian, and neo-Keynesian theories.
Prerequisite: ECO 261
- ECO463 Comparative Economic Systems (3) i, even 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 360
- ECO465 Urban and Regional Economics (3) ii**
Examination of economic growth in the United States with emphasis on the problems of economic growth in the Midwest. Attention is given to the factors instrumental in determining economic growth in various segments of the economy. Urban problems associated with growth are also considered.
Prerequisite: ECO 261
- ECO466 Current Economic Problems (3) i**
Analytical study of various problems of current interest in economics. Course generally offered by arrangement only.
Prerequisite: Senior standing

MANAGEMENT

- MGT110 Business Organization (3) i, ii, iii**
Introduction to the various activities and organizational structures in the business community. A general survey course that includes aspects of accounting, economics, management, and marketing.
- MGT116 Mathematics of Finance (3) i, ii**
A survey of the basic mathematical problems that arise daily in the various areas of business. Topics covered include: payroll, basic algebra, percentage, simple and

compound interest, notes, present value, retailing math, and depreciation.

Prerequisite: One year of high school algebra or equivalent. Course may be taken for credit only by students enrolled in one or two year business or secretarial degrees or in Business Education—Skills Emphasis.

- MGT210 Business Statistics I (3) i, ii, iii**
A study of descriptive and inductive statistical methods as they apply to decision making in business and economics.
Prerequisite: MAT 103 or MAT 105
- MGT310 Business Law I (3) i, ii, iii**
An introduction to the legal environment of business. Examination of the constitutional and historical foundations of the American legal system. Emphasis is placed upon the area of contracts, personal property, bailments, and sales.
- MGT311 Business Law II (3) i, ii**
A continuation of Business Law I with emphasis on negotiable instruments and security devices under the Uniform Commercial Code. Partnerships and corporations and other related areas are also discussed.
Prerequisite: MGT 310
- MGT 312 Principles of Management (3) i, ii, iii**
A study of the objectives and functions of a business enterprise with emphasis upon management principles of planning, organizing, and controlling the organization.
Prerequisite: ACC 230
- MGT 313 Business Statistics II (3) ii**
Emphasis on the statistical analysis of business and economic data and how this data aids in controlling operations and making sound business decisions.
Prerequisite: MGT 210
- MGT315 Financial Management (3) i, ii**
An introductory survey of the issues which face the financial manager of a firm. Such pressing issues as the liquidity vs. profitability decision, capital budgeting, planning needs, and controlling uses of funds as well as the methods of procuring funds will be dealt with.
Prerequisite: ACC 231 and MAT 105
- MGT316 Principles of Insurance (3) i**
Nature and uses of insurance, structure, management, and regulation of insurance carriers; economic risk; principles of personal property, life, and casualty insurance.
- MGT319 Business Communications (3) i, ii, iii**
Designed to meet the needs of business for better communications—written or oral. Covers principles of research, organization, and presentation of written memoranda; letters, and reports. Oral presentations help develop necessary skills required in a business environment.
- MGT410 Small Business Management (3) i**
Deals with all major aspects of starting and managing a small business. Topics covered include: factors in success and failure; methods of becoming a small business owner; capital requirements; sources of finance; employee and supplier relations; sales promotion; and control.
Prerequisite: MGT 312 and MKT 370
- MGT411 Investment Analysis (3) ii**
A critical approach to security analysis. Designed to present means of securing information about securities so as to permit dependable decisions to be made concerning their value and attractiveness at given prices.
Prerequisite: MGT 210 or MGT 315
- MGT412 Personnel Management (3) ii, iii**
Policies and practices in personnel management, such as job analysis, selection of employees, placement training,

employee services, and industrial relations.

Prerequisite: MGT 312

MGT413 Real Estate (3) ii

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

Prerequisite: MGT 310

MGT415 Administrative Supervision (3) i

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

Prerequisite: MGT 312

MGT416 Production Management (3) i

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

Prerequisite: MGT 210 and MGT 312

MGT417 Credit Management (3) ii

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

Prerequisite: ECO 260 and MGT 315

MGT419 Business Policy (3) ii

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

Prerequisite: MGT 312 and senior standing

MARKETING

MKT370 Principles of Marketing (3) i, ii, iii

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

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

MKT371 Principles of Retailing (3) ii

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

Prerequisite: MKT 370

MKT372 Physical Distribution (3) ii

An analysis of the physical distribution functions in marketing with emphasis on transportation methods, material handling, and facility location as elements of an integrated system.

Prerequisite: MKT 370

MKT 373 Purchasing (3) i

A study of the policies for effective and efficient procurement of goods and services for today's industry with emphasis on the measurement and evaluation of purchasing performance.

Prerequisite: MKT 370

MKT 374 Salesmanship (3) i

Study of the practical methods, principles, procedures, and policies of a professional salesman.

MKT 375 Industrial Marketing (3) ii

Analysis of the structure of marketing for industrial and wholesaling activities. Extensive study is made in industrial salesmanship, warehousing, and wholesaling problems.

Prerequisite: MKT 370

MKT 376 Advertising (3) i

A survey of the fundamentals of market promotion, including advertising media. Creative advertising, advertising agencies, and the advertising campaign are discussed.

Prerequisite: MKT 370

MKT 377 International Marketing (3) i, odd years

This course is designed to provide the student with an overall view of the structure and approaches to international marketing. Special emphasis is placed on methods of evaluating and implementing international marketing opportunities. In addition, cultural, political, legal, and financial considerations are viewed as they relate to the total international marketing mix.

Prerequisite: MKT 370

MKT 470 Marketing Management (3) i

This course presents stimulating and timely facsimiles about today's management of the marketing function. With emphasis on the pragmatic application of marketing concepts, the student assumes the role of business practitioner and through either leadership or participation is given ample opportunity to integrate the marketing mix. The course is attractive to persons concerned with where marketing is and where it is going.

Prerequisite: MKT 370

MKT 471 Consumer Relations and Behavior (3) i

A consideration of the influences on consumer motivation and behavior. Discussion of how the behavioral sciences relate to marketing.

Prerequisite: MKT 370

MKT 472 Sales Management (3) ii

Application of sales management concepts to administration, planning, training, and acquisition of the sales force for a business.

Prerequisite: MKT 370

MKT 473 Marketing Research (3) ii

Analysis of markets and marketing problems by various research methods. Special emphasis will be given to project management.

Prerequisite: MGT 210, MKT 370, and senior standing

SAMPLE PROGRAM
Bachelor of Science in Business Administration
Major in Accounting

Freshman Year

Fall Semester

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

Spring Semester

ENG 108	English Composition	..3
ACC 230	Prin. of Financial Acct.	..3
	Social Science or Psychology	..3
	Natural Science course	..4-5
	Humanities area class	..3
		<hr/>
		16-17

Sophomore Year

	Speech	..3
ACC 231	Prin. of Managerial Accounting	..3
ECO 260	Principles of Econ. I	..3
MGT 210	Business Statistics I	..3
	Humanities area class	..3
	Physical Education activity	..1
		<hr/>
		16

ACC	Interm. Acct. I or Cost Acct.	..3
ECO 261	Principles of Economics II	..3
CSC 182	Intro. to Data Processing	..3
MGT 310	Business Law I	..3
	Physical Education activity	..1
	Natural Science Course	..4-5
		<hr/>
		17-18

Junior Year

MKT 370	Principles of Marketing	..3
ACC	Cost Acct. or Interm. Acct. I	..3
MGT 312	Principles of Management	..3
	Humanities area class	..3
	Economics elective	..3
	Physical Education activity	..1
		<hr/>
		16

ACC 331	Intermediate Accounting II	..3
	Accounting elective	..3
	Business & Economics elective	..3
	Management elective	..3
MGT 315	Financial Management	..3
		<hr/>
		15

Senior Year

ACC 336	Tax Accounting	..3
MGT 319	Business Communications	..3
	Additional Accounting Requirement	..3
	(COBOL, Bus. Law II, or Bus. Stat. II)	..3
	Social Science course	..3
	Elective	..3
		<hr/>
		15

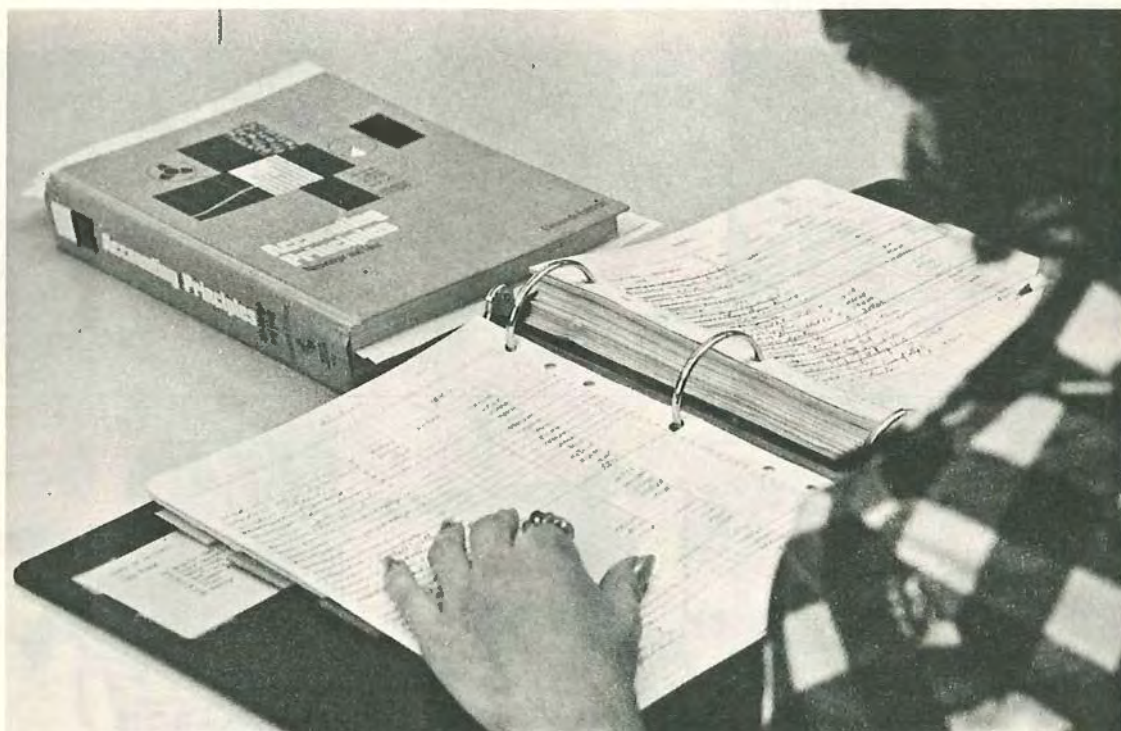
ACC 433	Auditing	..3
	Accounting elective	..3
	Electives	..9
		<hr/>
		15



SAMPLE PROGRAM
Bachelor of Science in Economics
Freshman Year

Fall Semester		Spring Semester	
ENG 104	English Composition .....3	ENG 108	English Composition .....3
	Social Science course .....3		Social Science course .....3
MAT 103	Interm. Algebra (if needed) .....3	MAT 105	College Algebra .....3
ECO 260	Principles of Economics I .....3	ACC 231	Prin. of Managerial Accounting .....3
ACC 230	Prin. of Financial Accounting .....3	ECO 261	Principles of Economics II .....3
PED 101	Concepts of Physical Activity .....1		Physical Education activity .....1
	16		16
Sophomore Year			
	Speech .....3		Humanities or Literature course .....3
	Natural Science .....4-5	ECO 360	Macroeconomic Theory .....3
MGT 210	Business Statistics I .....3		Natural Science .....4-5
	Social Science course .....3		Economics elective .....3
	Elective .....3		Elective .....3
	16-17		16-17
Junior Year			
MGT 312	Prin. of Management .....3	MGT 315	Financial Management .....3
MGT 310	Business Law I .....3	MKT 370	Principles of Marketing .....3
ECO 361	Price Theory .....3	MGT 319	Business Communications .....3
ECO 363	Money and Banking .....3		Humanities area course .....3
	Humanities area course .....3		Economics elective .....3
	Physical Education activity .....1		Physical Education activity .....1
	16		16
Senior Year			
	Economics elective .....3		Economics elective .....3
	Electives .....9		Electives .....12
	Business elective .....3		
	15		15

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

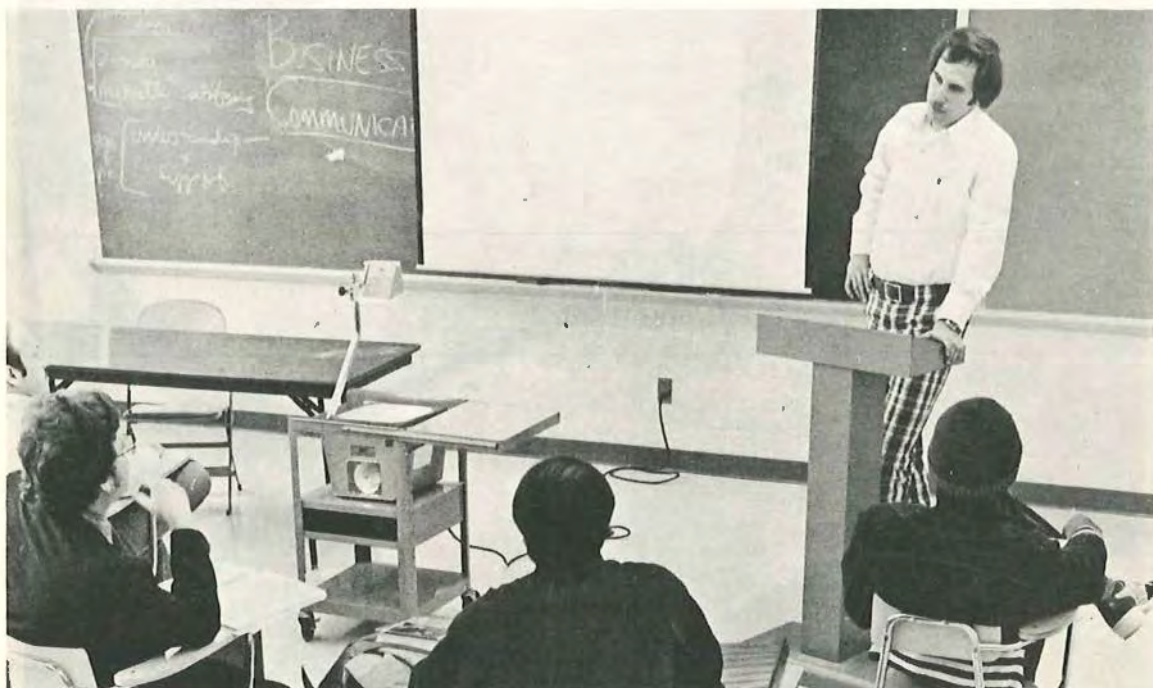


SAMPLE PROGRAM
B.S. in Education: Business Education—Skills
Freshman Year

Fall Semester		Spring Semester	
ENG 104	English Composition	ENG 108	English Composition
	Social Science course		Speech
MGT 110	Business Organization	MAT 103	Intermediate Algebra
SEC 141	Intermediate Typewriting	SEC 240	Office Typing Problems
SEC *144	Elementary Shorthand	SEC* 145	Intermediate Shorthand
PED 101	Concepts of Physical Activity		Physical Education activity
	16		16
Sophomore Year			
	Social Science course		Natural Science
	Humanities course	ACC 231	Prin. of Managerial Accounting
SEC 340	Advanced Shorthand	CSC 182	Intro. to Data Processing
ACC 230	Prin. of Financial Accounting	ECO 260	Principles of Economics I
	Math of Fin. or Bus. Stat. I		Physical Education activity
	Physical Education activity		14-15
	16		
Junior Year			
	Natural Science		Humanities courses
ACC 330	Intern. Accounting I		Social Science course
SEC 342	Model Office I	MGT 310	Business Law I
SED 202	Participation in Teaching I		Electives
	16-17		15
Senior Year			
BUS **455	Methods of Teaching Bus. Subj.	SED 404	Foundations in Secondary Educ.
SED 303	Experience in Teaching II	SED 407	Educ. of the Exceptional Student
EED 305	Psychology in Teaching	SED 409	Sec. Student Teaching III
	Education elective		14
	Elective		
	16		

*If student has received one unit of credit in high school, enroll in 145 Intermediate Shorthand first semester and 340 Advanced Shorthand second semester. Sophomore year, use the time for a business and economics elective.

**Must be taken prior to Student Teaching III.



SAMPLE PROGRAM
B.S. in Education: Business Education—Basic

Fall Semester		Freshman Year		Spring Semester	
ENG 104	English Composition	3	ENG 108	English Composition	3
MAT 103	Intermediate Algebra (if needed)	3		Speech	3
	Social Science course	3	MAT 105	College Algebra	3
	Social Science course	3	SEC 240	Office Typing Problems	3
SEC 141	Intermediate Typewriting	3	CSC 182	Intro. to Data Processing	3
PED 101	Concepts of Physical Activity	1		Physical Education activity	1
		16			16
Sophomore Year					
	Humanities courses	6	ACC 231	Prin. of Managerial Accounting	3
ACC 230	Prin. of Financial Accounting	3	ECO 261	Prin. of Economics II	3
ECO 260	Prin. of Economics I	3	MGT 210	Business Statistics I	3
MKT 374	Salesmanship	3		Natural Science	4-5
	Physical Education activity	1		Physical Education activity	1
		16			14-15
Junior Year					
	Humanities course	3		Social Science course	3
	Natural Science	4-5		Electives	6
MGT 310	Business Law I	3	MGT 311	Business Law II	3
ACC 330	Intermediate Accounting	3	MGT 312	Principles of Management	3
SED 202	Participation in Teaching I	3			15
		16-17			
Senior Year					
BUS *455	Methods of Teach. Bus. Subjects	3	SED 404	Foundations in Secondary Educ.	3
MGT 319	Business Communications	3	SED 407	Educ. of the Exceptional Student	2
SED 303	Experience in Teaching II	3	SED 409	Secondary Student Teaching III	9
EED 305	Psychology in Teaching	4			14
	Education elective	3			
		16			

*Must be taken prior to 409 Student Teaching III.

SAMPLE PROGRAM
B.S. in Education: Business Education—Marketing

Fall Semester		Freshman Year		Spring Semester	
ENG 104	English Composition	3	ENG 108	English Composition	3
MAT 103	Intermediate Algebra	3		Speech	3
	Social Science course	3	SEC 240	Office Typing Problems	3
PSY 101	General Psychology	3		Natural Science	4-5
SEC 141	Intermediate Typewriting	3		Physical Education activity	1
PED 101	Concepts of Physical Activity	1			14-15
		16			
Sophomore Year					
	Humanities courses	6		Social Science course	3
ACC 230	Prin. of Financial Accounting	3	ACC 231	Prin. of Managerial Accounting	3
ECO 260	Prin. of Economics I	3	ECO 261	Prin. of Economics II	3
MGT 210	Business Statistics I	3	MGT 310	Business Law I	3
	Physical Education activity	1	MKT 370	Principles of Marketing	3
		16		Physical Education activity	1
					16
Junior Year					
ACC 330	Intermediate Accounting I	3	MGT 312	Principles of Management	3
	Natural Science course	4-5	MKT 376	Advertising	3
SED 202	Participation in Teaching I	3		Marketing electives	6
MKT 371	Principles of Retailing	3		Humanities course	3
MKT 374	Salesmanship	3			15
		16-17			
Senior Year					
BUS* 455	Methods of Teaching Bus. Subj.	3	SED 404	Foundations in Secondary Educ.	3
MGT 319	Business Communications	3	SED 407	Educ. of the Exceptional Student	2
SED 303	Experience in Teaching II	3	SED 409	Secondary Student Teaching III	9
EED 305	Psychology in Teaching	4			14
	Marketing Elective	3			
		16			

*Must be taken prior to 409 Student Teaching III.

SAMPLE PROGRAM
B.S. in Business Administration—Major in Marketing

Freshman Year			
Fall Semester		Spring Semester	
ENG 104	English Composition	ENG 108	English Composition
	Am. Nat'l. Gov't. or Am. History		Speech
MAT 105	College Algebra		Humanities course
MGT 110	Business Organization (optional)	ECO 260	Prin. of Economics I
	Electives		Natural Science
PED 101	Concepts of Physical Activity		
	16		16-17
Sophomore Year			
	Humanities or Literature		Social Science
ECO 261	Prin. of Economics II	MKT 370	Principles of Marketing
ACC 230	Prin. of Financial Accounting	ACC 231	Prin. of Managerial Accounting
MGT 210	Business Statistics I		Natural Science
	Social Science		Humanities course
	Physical Education activity		
	16		16-17
Junior Year			
MGT 312	Principles of Management	MGT 315	Financial Management
MGT 310	Business Law I	MGT 472	Sales Management
MGT 319	Business Communications		Electives
MKT 374	Salesmanship		Physical Education activity
	Elective		
	Physical Education activity		
	16		16
Senior Year			
MKT 375	Advertising		Marketing elective
MKT 473	Marketing Research		Business and Economics elective
MKT 470	Marketing Management		Electives
	Marketing elective		
	Elective		
	15		15

SAMPLE PROGRAM
B.S. in Business Administration—Major in Management

Freshman Year			
Fall Semester		Spring Semester	
ENG 104	English Composition	ENG 108	English Composition
	Speech		Social Science course
	Social Science course		Literature or Humanities course
MAT 105	College Algebra		General Education
MGT 110	Business Organization (optional)		Physical Education activity
PED 101	Concepts of Physical Activity		
	16		16
Sophomore Year			
ACC 230	Prin. of Financial Accounting	ACC 231	Prin. of Managerial Accounting
ECO 260	Principles of Economics I	ECO 261	Principles of Economics II
	Social Science course	MGT 210	Business Statistics I
	Humanities or Literature course		Literature or Humanities course
	Natural Science		Electives
	16-17		Physical Education activity
	16		16
Junior Year			
MGT 310	Business Law I	MGT 319	Business Communications
MKT 370	Principles of Marketing	MGT 315	Financial Management
MGT 312	Principles of Management		Management electives
ACC 333	Cost Accounting		per requirements
	Elective		Electives
	Physical Education activity		
	16		15
Senior Year			
	Management electives	MGT 412	Personnel Management
	per requirements		Management electives
	Electives		per requirements
	15		Electives
	15		15

SAMPLE PROGRAM
Associate of Science in Mid-Management—Retailing

Freshman Year		Spring Semester	
MGT 110 Business Organization	.3	ACC 231 Prin. of Managerial Accounting	.3
ACC 230 Prin. of Financial Accounting	.3	ECO 261 Principles of Economics II	.3
ECO 260 Principles of Economics I	.3	MKT 370 Principles of Marketing	.3
ENG 104 English Composition	.3	MGT 116 Math of Finance or 210 Bus. Stat.	.3
Elective	.3	Speech	.3
PED 101 Concepts of Physical Activity	.1	Physical Education activity	.1
	16		16
Sophomore Year			
MKT 376 Advertising	.3	MKT 371 Principles of Retailing	.3
MKT 274 Salesmanship	.3	MGT 312 Principles of Management	.3
Am. Hist. or Am. Nat'l. Gov't.	.3	Electives	.9
Humanities elective	.3		
Elective	.3		15
	15		

SAMPLE PROGRAM
Associate of Science in Mid-Management—Banking and Finance

Fall Semester		Freshman Year	Spring Semester		
MGT 110	Business Organization	.3	ACC 231	Prin. of Managerial Accounting	.3
ACC 230	Prin. of Financial Accounting	.3	ECO 261	Principles of Economics II	.3
ECO 260	Principles of Economics I	.3	MGT 116	Math of Finance or 210 Bus. Stat.	.3
ENG 104	English Composition	.3		Speech	.3
	Elective	.3	BAN 253	Bank Management	.3
PED 101	Concepts of Physical Activity	.1		Physical Education activity	.1
		<hr/> 16			<hr/> 16
		Sophomore Year			
MGT 310	Business Law I	.3		Banking and Finance elective	.3
MGT 315	Financial Management	.3	MGT 312	Principles of Management	.3
	Banking and Finance elective	.3		Humanities elective	.3
	Am. Hist. or Am. Nat'l. Gov't.	.3		Electives	.6
	Elective	.3			<hr/> 15
		<hr/> 15			

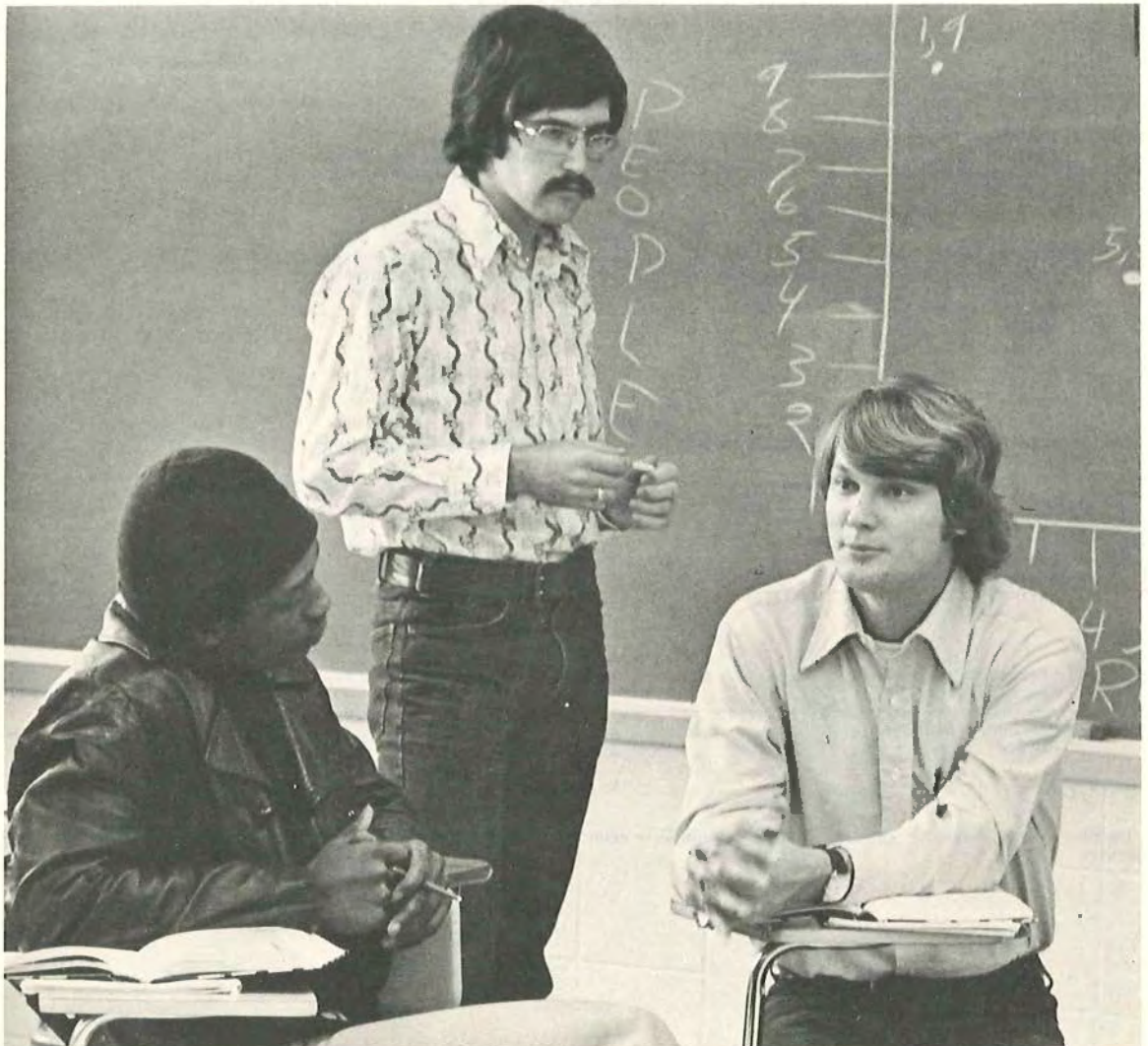
SAMPLE PROGRAM
Associate of Science in Mid-Management—Accounting

Freshman Year		Spring Semester	
MGT 110 Business Organization	.3	ACC 231 Prin. of Managerial Accounting	.3
ACC 230 Prin. of Financial Accounting	.3	ECO 261 Principles of Economics II	.3
ECO 260 Principles of Economics I	.3	MGT 116 Math of Finance or 210 Bus. Stat.	.3
ENG 104 English Composition	.3	Speech	.3
PED 101 Concepts of Physical Activity	.1	Elective	.3
Elective	.3	Physical Education activity	.1
	<u>16</u>		<u>16</u>
Sophomore Year		Spring Semester	
ACC 330 Intermediate Accounting I	.3	ACC 331 Intermediate Accounting II	.3
ACC 333 Cost Accounting	.3	Humanities elective	.3
Am. Hist. or Am. Nat'l. Gov't.	.3	Business elective*	.3
MGT 312 Principles of Management	.3	Electives	.6
Elective	.3		<u>15</u>
	<u>15</u>		

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

SAMPLE PROGRAM
Associate of Science in Mid-Management—Data Processing
Freshman Year

Fall Semester		Spring Semester	
MGT 110	Business Organization .....3	ACC 231	Prin. of Managerial Accounting .....3
ACC 230	Prin. of Financial Accounting .....3	ECO 261	Principles of Economics II .....3
ECO 260	Principles of Economics I .....3	MGT 116	Math of Finance or 210 Bus. Stat. ....3
CSC 182	Intro. to Data Processing .....3		Speech .....3
ENG 104	English Composition .....3	CSC 240	Intro. to RPG .....3
PED 101	Concepts of Physical Activity .....1		Physical Education activity .....1
	16		16
Sophomore Year			
CSC 245	Introduction to COBOL .....3	CSC 345	Advanced COBOL .....3
	Am. Hist. or Am. Nat'l. Gov't. ....3		Humanities elective .....3
MGT 310	Business Law I .....3		Electives .....9
MGT 312	Principles of Management .....3		
	Elective .....3		15
	15		



Department of

ENGINEERING AND TECHNOLOGY

The Department of Engineering and Technology serves
two primary groups of students.

First, the Department offers engineering and architecture transfer programs
for those students who wish to complete the baccalaureate degree at a
major university in these professional fields.

The engineering transfer program is closely coordinated with the University of
Missouri-Columbia and the University of

Missouri-Rolla. The architecture transfer program has been coordinated with
Kansas State University at Manhattan. Second, the Department offers two-year and
four-year degree programs for those students who wish to pursue a career in the expanding
areas of engineering and industrial technology. These programs are designed to
develop within the student skills and competencies required to plan, produce, inspect, maintain,
install distribute technological products and services.

Specific requirements for programs offered by the Department are:

For the Bachelor of Science in Technology Degree with a:

Major in Automotive Industrial Technology: Business 110, 210, 230, 260, 261, 312, 370 and 412; Engineering 104; Mathematics 110; Technology 100, 112, 140, 210, 315, 318, 330, 350, 375, 390, 450, and 455.

Major in Civil and Building Construction: Engineering 104, 106, 114, 118, 190, 204, 214, 218, 301, 404, and 408; Math. 110, 111; Technology 116, 140, 216, 224, 306, 311, 390, 406, 410, 475 and 490.

Major in Electronic Engineering Technology: Engineering 104 and 190; Mathematics 110; 111 and 210; Technology 120, 140, 220, 230, 240, 270, 300, 320, 340, 440 and 480. In addition to this 390, 470 and First Class F.C.C. License or 390, 430, and Second Class F.C.C. License.

Major in Industrial Electronic Technology: Engineering 104 and 190; Mathematics 110 and 111; Technology 120, 140, 220, 230, 240, 270, 300, 320, 340, 360, 375, 420, 475, 485 and a Second Class F.C.C. Licence.

For the Associate of Science Degree with a:

Major in Drafting and Design: Engineering 104, 106, 108, 114, 118, 190, 204 and 214; Mathematics 110; Physics 101; Technology 116, 216, 224, 306 and 10.

Major in Electronic Engineering Technology: Engineering 104 and 190; Mathematics 110 and 111; Technology 120, 140, 230, 240, and 270; and selected electives of 8 hours in the major field of concentration.

For the Pre-professional transfer programs:

Pre-Engineering: Engineering 104, 106, 108, 190, 200, 204, 230, 260, 300, 301, 320, 340; Mathematics 103 or 105, 107, 108, 209, 212; Physics 101; Technology 228; Economics 260; and Chemistry 111.

Pre-Architecture: Engineering 106, 108, 109, 114, 204, 404; Speech 104; English 104, 108; Sociology 110; History 110, 150; Art 130, 260; Psychology 101; Mathematics 105, 106 or 107; Geology 204; Philosophy 210; Business 260, 310; Earth Science 304.

ENGINEERING

- EGR104 Engineering Graphics (3) i, ii**
Fundamentals of drawing, drafting room practices, and drafting of typical engineering and technical drawings; two hours lecture and four hours lab. (Each student must provide his own drawing instruments.)
- EGR106 Slide Rule (1) i, ii**
The use of the slide rule in solving rapid calculations for problems in physics, chemistry, and other engineering problems. 1 hour lecture and 1 hour lab. (Each student must furnish his own slide rule.)
Prerequisite: Mathematics 103 or Technology 110 concurrent.
- EGR108 Descriptive Geometry (3) ii**
Descriptive geometry is the science of graphic representation and solution of space problems. Descriptive geometry is based on the principles of orthographic projection. The same principles are employed in a course of engineering graphics. Two hours lecture and four hours lab.
Prerequisite: Engineering Graphics 104.
- EGR114 Architectural Drawing I (3) i**
Deals with the planning and drawing of a wood frame home with a complete set of buildings, plans and specifications. Emphasis placed on principles, practices, and techniques of house construction. Two hours lecture and two hours lab.
Prerequisite: Engineering Graphics 104.
- EGR118 Structural Drawing I (3) i**
Preparation of a complete set of plans, with emphasis on working drawings dealing with fire-resistant residence and commercial buildings. A complete set of specifications for the building is also required. Three hours lecture, one hour lab.
Prerequisite: Engineering Graphics 104 and Architectural Drawing 114.
- EGR190 Technical Report Writing (3) i**
The study of types and forms of reports, the use of drawings and illustrations in supporting and clarifying report content. Practical projects in preparing reports of various lengths and degrees of complexity, oral presentation of report material, continuation of reading and practice in style, and the efficient expression of ideas.
Prerequisite: English Composition 104 or consent of instructor.
- EGR200 Statics (3) ii**
Vectors, force systems, friction, centroids, moments of inertia.
Prerequisite: Physics 201 and Calculus 108 or consent of instructor.
- EGR204 Plane Surveying I (3) ii, iii**
An elementary course in plane surveying. The major emphasis on field work problems, dealing with use of steel tape, the transit and the engineers level. 2 hours lecture and 3 hours lab.
Prerequisite: Mathematics 105 or 106 or high school trigonometry.
- EGR214 Architectural Drawing II (3) ii**
Students plan and design a wood frame home incorporating special details and techniques not covered in Architectural Drawing 120. Design and planning of the home is stressed in the course. 2 hours lecture, 2 hours lab.
Prerequisite: Architectural Drawing 114.
- EGR218 Structural Drawing II (3) ii**
Analysis of structural components and materials, including steel, aluminum, and concrete in structural design. Conceptual evolution of a framework from fixed specifications with subsequent detailing of joints, connections and fittings, and built-up beams. 3 hours lecture, 1 hour lab.
Prerequisite: Architectural Drawing 118, Technical Mathematics 105 and Elementary Structural Design 301.
- EGR225 Materials Testing Lab I (1) i**
Includes compression, tension, shear, and flexure tests of steel, wood, plastics, and concrete. 3 hours lab.
Prerequisite: Concurrent with Elementary Structural Design 301.
- EGR228 Machine Design (3) ii**
A graphic approach to the solution of motion characteristics and the design of mechanisms. Attention is given to the detail layout of mechanisms, cams, gears. Related motion studies relative to velocities and acceleration are also studied dependent on a graphical solution.
Prerequisite: Engineering Graphics 104 and Descriptive Geometry 108.
- EGR230 Mechanics of Materials (3) i**
Simple stresses and strains, combined stresses and strains, deflection and redundants, buckling.
Prerequisite: Statics 200, and concurrent with Elementary Structural Design 301.
- EGR235 Materials Testing Lab II (1) i**
Includes compression, tension, shear, and flexure tests of steel, wood, plastics, and concrete. 3 hours lab.
Prerequisite: Concurrent with Intermediate Strength of Materials 230.
- EGR260 Circuit Theory I (4) i**
Study of circuits using resistance, capacitance and inductance with various types of driving sources.
Prerequisite: Concurrent with Calculus 209, or consent of instructor.
- EGR300 Dynamics (3) i**
Motion of a particle; kinetics or rigid bodies; work and energy; impulse and momentum; impact.
Prerequisite: Statics 200.
- EGR301 Elementary Structural Design (3) i**
Introduction to classical and modern methods for elastic analysis of statically indeterminate frames, trusses.
Prerequisite: Technical Mathematics I and II, consent of instructor.
- EGR320 Fluid Mechanics (3) i**
Statics and dynamics of fluid flow.
Prerequisite: Dynamics 300.
- EGR340 Thermodynamics (3) ii**
Fluid properties, work and heat, first law, second law, entropy, applications to vapor and ideal gas processes.
Prerequisite: Calculus 209, Physics 251, or consent of instructor.
- EGR360 Circuit Theory II (3) ii**
Alternating current circuits, magnetically coupled circuits, polyphase circuits, fourier analysis.
Prerequisite: Circuit Theory I 260.
- EGR404 Soil Mechanics (3) ii**
Physical properties of solid, soil profiles and deposits, underground investigations and constructions, fills and subgrades. 2 hours lecture, 4 hours lab.
Prerequisite: General Chemistry 120 technical majors; Introduction to Chemistry 101.
- EGR408 Surveying and Mapping (5) i**
Deals with topographical and municipal surveying and map making. 2 hours lecture and 6 hours lab.
Prerequisite: 204 Plane Surveying I.

APPLIED SCIENCE

- TEC100 Personal and Occupational Guidance (1) i**
Job requirements of engineering and technician occupations; personality development and leadership training.
- TEC120 Technical Physics I (4) i**
Free body diagrams, elementary statics, friction, centroids, moment of inertia, displacement, velocity, acceleration, systems of units, dynamics, energy considerations, simple harmonic motion.
Prerequisite: Technical Mathematics I, 110.
- TEC200 Electronic Drafting (3) i**
Drafting communication of electronic components. 2 hours lecture and 3 hours lab.
Prerequisite: Engineering Graphics 104 or consent of instructor.
- TEC220 Technical Physics II (4) ii**
Temperature and effects (expansion), quantity of heat, heat transfer, change of state, calorimetry, work and heat; simple harmonic motion, wave motion, sound, acoustics, nature and speed of light, reflection and refraction, illumination.
Prerequisite: Technical Physics I, 120 concurrent with Technical Mathematics II, 160.
- TEC385 Theory and Problems of Internal Combustion Engines (4) ii**
Principles of operation of spark ignition and compression ignition engines. A comparative study of the variations in design and operational characteristics of engine types. 3 hours lecture and 4 hours lab.
Prerequisite: Technical Physics I, 120, Technical Mathematics II, 160, or consent of instructor.
- TEC400 Electrical Codes (3) ii**
An analysis of local and national electrical codes.
Prerequisite: Circuit Analysis II, 240 or consent of instructor.
- TEC460 A.C. Machinery (4) ii**
Theory of operation, actual operation and testing, and installation of many types of alternating current machinery. 3 hours lecture and 4 hours lab.
Prerequisite: D. C. Machinery 360 or consent of instructor.

DRAFTING AND DESIGN CIVIL AND BUILDING CONSTRUCTION

- TEC116 Estimating of the Building Trades (3) ii**
The course deals in aiding the student, contractor and builder in making quick, accurate take-offs and labor-time estimates. The emphasis is on accurate analysis of the working drawings and specifications.
Prerequisite: Architectural Drawing 114 concurrently.
- TEC216 Materials of Architectural Construction (3) ii**
Designed to develop an understanding of the materials and methods of construction of residential and commercial type construction. Includes a survey of different types of common construction and their advantages and limitations.
Prerequisite: Architectural Drawing 114 concurrently.
- TEC224 Production Illustration (3) i, ii**
The technical illustrator's tools, skills, and opportunities. A study of the practice in lettering, axonometric, oblique, and perspective drawings. Special treatment including cutaway and exploded assemblies, shades and shadows, airbrush techniques, inking methods, and paste-up layouts.
Prerequisite: Engineering Graphics 104.

- TEC306 Model Building (3) i**
Presents the basic techniques and standard practices of model building. The student will construct a model of his choice. 3 hours lecture.
- TEC311 Technical Computer Programming (3) i, ii**
Theory and application of FORTRAN II-D, SPS and APT to the solution of problems in industrial process control and digital drafting.
Prerequisite: Engineering Graphics 104, Introduction to Data Processing 182.
- TEC406 Concrete Technology (3) i**
The theory and design of reinforced concrete structures including beams, columns, slabs, walls, and buildings incorporating current ACI Code provisions for elastic and ultimate design.
Prerequisite: Introduction to Chemistry 101 and Materials of Architectural Construction 216.
- TEC410 Production Drafting (4) ii**
Drafting practices and terminology peculiar to working drawings. General mechanisms, cams, glare and power transmission. Emphasis is placed on developing speed and accuracy in the production of detail and working drawing for practical application.
Prerequisite: Engineering Graphics 104.

ELECTRICITY AND ELECTRONICS

- TEC140 Circuit Analysis I (4) i**
Basic principles of electricity covering electrical units, Ohm's law, Kirchhoff's law, circuit solution, network solutions, magnetism, inductance, and capacitance. 3 hours lecture and 3 hours lab.
Prerequisite: Concurrent with Technical Mathematics I, 110.
- TEC230 Introduction to Electronics (4) ii, iii**
The operating principles of transistors and thermionic tubes and the application of these devices as elementary amplifiers. Included also are special tube types as cathode-ray, gas-filled, and phototubes. 3 hours lecture and 3 hours lab.
Prerequisite: Circuit Analysis I, 140.
- TEC240 Circuit Analysis II (4) ii**
Characteristics of alternating current waves and time varying circuits, the behavior of alternating current components; phase and power factor; power measurements under balanced and unbalanced conditions in delta and wye connected systems; two-phase and three-phase systems; application of vector algebra in the analysis of series and parallel combinations of impedance. 3 hours lecture and 3 hours lab.
Prerequisite: Circuit Analysis I, 140 concurrent with Technical Mathematics II 160.
- TEC270 Electronic Amplifiers (4) ii**
A detailed study of solid state amplifier design including such concepts as bias, gain and distortion.
Prerequisite: Introduction to Electronics 230.
- TEC300 Boolean Algebra (3) ii**
The principles of symbolic logic, logical statements, and electronic circuits used for logical functions.
Prerequisite: Electronic Amplifiers 270.
- TEC320 Instruments and Measurements (4) i**
Basic circuits in electronic measurements and the application of these circuits in these instruments such as oscilloscopes, vacuum-tube voltmeters, and bridges, including the analysis of irregular waveforms and bandwidth requirements of instruments. 3 hours lecture and 3 hours lab.
Prerequisite: Circuit Analysis II 240, Technical Mathematics II.

TEC340 Communication Systems I (4) i
The study of circuits and systems fundamental to radio communications. Included are small signal tuned amplifiers, tuned power amplifiers, oscillators, A.M. and F.M. modulation and detection, and the principles of transmitters and receivers.
Prerequisite: Introduction to Electronics 230.

TEC360 D. C. Machinery (4) ii
The study of the operation of D. C. machinery together with laboratory tests, such as, load test of D. C. shunt, series; and compound motors; hysteresis curves, generator characteristics. 3 hours lecture and 3 hours lab..
Prerequisite: Technical Mathematics II, 160.

TEC420 Automatic Control Systems (4) i
Control systems and electronically timed operations; synchros in openended systems; error sensing transducers and feed-back control systems. 3 hours lecture and 3 hours lab.
Prerequisite: Introduction to Electronics 230.

TEC430 Electronic Computers (4) ii
The methods of using electronic circuits to perform computations; included are the elements of both analog and digital computers and the organization of these elements in a functioning computer. 3 hours lecture and 3 hours lab.
Prerequisite: Boolean Algebra 300.

TEC 440 Communication Systems II (4) ii
A continuation of Communication Systems I, 340. An introduction to the basic principles of pulse modulation systems and television systems, and a study of the characteristics of radio frequency transmission lines, antennas, and electromagnetic radiation. 3 hours lecture and 3 hours lab.
Prerequisite: Communication Systems I, 340.

TEC470 Microwave Systems (4) i
U.H.F. and V.H.F. components, circuits and measurements techniques; distributed constant elements; waveguides, microwave links, radar and similar systems. 3 hours lecture and 3 hours lab.
Prerequisite: Technical Physics II 220 and Communication Systems II 440.

TEC480 Electronic Design (3) i
Design and construction of individual projects. 2 hours lecture and 3 hours lab.
Prerequisite: Electronic Amplifiers, 270.

GENERAL TECHNOLOGY

TEC318 Materials and Manufacturing Processes (3) i
Acquaints the student with materials and manufacturing processes used in mass production industry. Physical properties, structure and application of materials used. Common methods of manufacturing, production lines, and the various types of fabrication processes are included.

TEC350 Fuels and Lubricants (33) ii
Designed as related subject matter complementing the automotive industrial technology curriculum. Includes molecular structures and compositions of the hydrocarbons of solvents, gasolines, diesel fuels, jet fuels, oils and heavy lubricants. Emphasis on the refinery processes and compositions of gasolines and oils and their oxidation characteristics. Laboratory experiments include distillation of various fuels, viscosity experiments, specific and API gravities, pour points, cold points, fire and flash points.
Prerequisite: Auto Engines 100 and Auto Engine Analysis 112.

TEC375 Applied Hydraulics and Pneumatics (3) ii
Provides the student with a familiarity of industrial hydraulic and pneumatic components and circuits. Identification, functions, and interchangeability of components are areas emphasized in conjunction with drawing schematics, building circuits from schematics, building circuits for specific purposes, and tracing industrial circuits.

TEC390 Technological Projects (1-5) i, ii, iii
Completion of two years work in the Missouri Western State College Technology curriculum Special projects will be assigned by advisors with the approval of the Dean. A comprehensive written report of the work accomplished must be prepared and approved before credit is received. An oral examination is also required.
Prerequisite: Consent of Technology Department.

TEC410 Dimensional Metrology (3) i
Studied are the various industrial methods of mass production precision measurement as used for quality control. Instruments covered range from micrometers and super micrometers through gage blocks, optical flats, and electronic and air systems; also inspection methods as applied to quality and production control.

TEC450 Service Management Seminar (3) i
A seminar designed to compliment the automotive industrial technology curriculum by utilizing guest speakers from the automotive industry in conjunction with related classroom material. Guest speakers include automotive dealers, service advisors, service foremen or managers, new car dealers, factory service representatives, engineering staff personnel, parts store managers, auto mechanics, oil men, and other occupations related to the automotive industry. The objective is to give first hand insight into actual job experiences of personnel working the students' chosen field. Included are the relationships of the various automotive areas to each other ranging from managerial personnel through service personnel.
Prerequisite: Principles of Management 318.

TEC475 Refrigeration and Air Conditioning (4) ii
Study of refrigeration and air conditioning principles and their application.

TEC485 Electromechanical Design (3) ii
An analysis is made of the processes required for manufacture of a selected electromechanical assembly. Written plan sheets are made of these processes and the processes and the procedures are checked by actual shop production of the assembly. 1 hour lecture and 8 hours lab.
Prerequisite: Instruments and Measurements 320.

TEC490 Technological Practice (1-5) i, ii, iii
Completion of three years of Technology curriculum at Missouri Western State College. Conducted and operated to give experience in applying basic scientific and engineering principles to practical situations related to research, development, and/or maintenance techniques and methods.
Prerequisite: Consent of Technology Department.

SAMPLE PROGRAM
B.S. in Technology
Automotive Industrial Technology

Fall Semester		Spring Semester	
AUT 100 Auto Engines	.3	AUT 112 Auto Engine Analysis	.3
MAT 110 Tech Math I	.5	MGT 110 Business Organization	.3
TEC 140 Circuit Analysis I	.4	PED 101 Concepts of Physical Activity	.1
EGR 104 Engineering Graphics	.3	TEC 375 Applied Hydraulics and Pneumatics	.3
		PSC 101 Amer. Gov't. or HIS140 Amer. Hist. or HIS150 Amer. Hist.	.3
		ENG 104 English Composition	.3
	15		16
Sophomore Year			
AUT 210 Auto Suspension and Chassis	.3	AUT 330 Auto Power Transmission Mechanisms	.3
AUT 315 Auto Electrical and Fuel Systems	.3	AUT 455 Service Tech Lab	.5
TEC 450 Service Mgmt. Seminar	.3	TEC 390 Tech Projects	1-5
ENG 108 English Composition	.3	ACC 230 Principles of Financial Accounting	.3
Speech	.3		
P.E. Activity	.1		
	16		16
Junior Year			
TEC 318 Materials and Manu. Processes	.3	TEC 350 Fuels and Lubricants	.3
ECO 260 Principles of Economics I	.3	MAN 210 Business Statistics I	.3
ESC 204 Introduction to Geology	.4	HUM205 Humanities II	.3
HUM203 Humanities I	.3	BIO 101 Principles of Biology	.5
MGT 312 Principles of Management	.3	P.E. Activity	.1
	16		15
Senior Year			
MAN412 Personnel Management	.3	ECO 364 Labor Economics	.3
SOC 110 General Sociology	.3	MKT 370 Principles of Marketing	.3
HUM210 Introduction to Philosophy	.3	Electives	.9
ECO 261 Principles of Economics II	.3		15
MAN 317 Administrative Supervision	.3		
P.E. Activity	.1		
	16		

SAMPLE PROGRAM
B.S. in Technology
Electronic Engineering Technology

Fall Semester		Spring Semester	
TEC 140 Circuit Analysis I	.4	TEC 240 Circuit Analysis II	.4
TEC 230 Intro. to Electronics	.4	TEC 270 Electronic Amplifiers	.4
MAT 110 Tech. Math I	.5	MAT 111 Tech. Math II	.5
ENG 104 English Composition	.3	ENG 108 English Composition	.3
	16		16
Sophomore Year			
TEC 120 Tech. Physics I	.4	TEC 220 Tech. Physics II	.4
TEC 300 Boolean Algebra	.3	TEC 320 Instru. & Measurements	.4
EGR 190 Tech. Report Writing	.3	PED 101 Concepts of Physical Activity	.1
EGR 104 Engineering Graphics	.3	History or Government	.3
MAT 210 Tech. Math III	.3	Speech	.3
	16		15
Junior Year			
TEC 340 Comm. Systems I	.4	TEC 440 Comm. Systems II	.4
BIO 101 Prin. of Biology	.5	ESC 204 Intro. to Geology	.4
HUM203 Humanities I	.3	HUM205 Humanities II	.3
ECO 260 Prin. of Economics I	.3	Elective	.3
P.E. Activity	.1	P.E. Activity	.1
	16		15
Senior Year			
*TEC 480 Electronic Design	.4	TEC 390 Tech. Projects	.2
*TEC 470 Microwave Systems	.4	TEC 490 Tech. Practice	.5
ECO 263 Consumer Economics	.3	TEC 485 Electromechanical Design	.3
SOC 110 General Sociology	.3	HUM210 Intro. to Philosophy	.3
P.E. Activity	.1	Elective	.3
	15		16

*An option of 430, Electronic Computers, together with a Second Class F.C.C. License is available.

SAMPLE PROGRAM
B.S. in Technology
Industrial Electronics Technology

Fall Semester			Freshman Year		Spring Semester	
TEC 140	Circuit Analysis I	.4	TEC 240	Circuit Analysis II	.4	
TEC 230	Intro. to Electronics	.4	TEC 270	Electronic Amplifiers	.4	
MAT 110	Tech. Math I	.5	MAT 111	Tech. Math II	.5	
ENG 104	English Composition	.3	ENG 108	English Composition	.3	
		<u>16</u>			<u>16</u>	
			Sophomore Year			
TEC 120	Tech. Physics I	.4	TEC 220	Tech. Physics II	.4	
TEC 300	Boolean Algebra	.3	TEC 320	Instru. & Measurements	.4	
EGR 190	Tech. Report Writing	.3	PED 101	Concepts of Physical Activity	.1	
EGR 104	Engineering Graphics	.3		History or Government	.3	
CSC 182	Intro. to Data Processing	.3		Speech	.3	
		<u>16</u>			<u>15</u>	
			Junior Year			
TEC 340	Comm. Systems I	.4	TEC 360	D.C. Machinery	.4	
BIO 101	Prin. of Biology	.5	TEC 375	App. Hyd. & Pneum.	.3	
HUM 203	Humanities I	.3	ESC 204	Intro. to Geology	.4	
ECO 260	Prin. of Economics	.3	HUM 205	Humanities II	.3	
	P.E. Activity	.1		P.E. Activity	.1	
		<u>16</u>			<u>15</u>	
			Senior Year			
TEC 420	Auto. Control Systems	.4	TEC 475	Ref. & Air Cond.	.4	
TEC 390	Tech. Projects (F.C.C.)	.5	TEC 460	A.C. Machinery	.4	
ECO 263	Consumer Economics	.3	TEC 485	Electromechanical Design	.3	
SOC 110	General Sociology	.3	HUM 210	Intro. to Philosophy	.3	
		<u>15</u>		P.E. Activity	.1	
					<u>15</u>	

SAMPLE PROGRAM
Associate of Science
Electronic Engineering Technology

Fall Semester			Freshman Year			Spring Semester		
TEC 140	Circuit Analysis I	.4	TEC 240	Circuit Analysis II	.4			
TEC 230	Intro. to Electronics	.4	TEC 270	Electronic Amplifiers	.4			
MAT 110	Tech. Math. I	.5	MAT 111	Tech. Math II	.5			
ENG 104	English Composition	.3	EGR 104	Engineering Graphics	.3			
		<u>16</u>			<u>16</u>			
Sophomore Year			Sophomore Year					
TEC 120	Tech. Physics I	.4	TEC 440	Comm. Systems II	.4			
TEC 340	Comm. Systems I	.4	TEC 320	Instr. & Measurements	.4			
EGR 190	Tech. Report Writing	.3		Humanities	.3			
PED 101	Concepts of Physical Activity	.1		History or Government	.3			
	Speech	.3		P.E. Activity	.1			
		<u>16</u>			<u>15</u>			

SAMPLE PROGRAM
Associate of Science
Drafting and Design

Freshman Year

Fall Semester

EGR 104	Engineering Graphics	3
MAT 110	Tech. Math. I	5
ENG 104	English Composition	3
PED 101	Concepts of Physical Activity	1
	History or Government	3

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Spring Semester

EGR 108	Descriptive Geometry	3
EGR 106	Slide Rule	1
PHY 101	Concepts & Prin. of Physics	4
	Speech	3
	Humanities	3
	Elective	3

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Sophomore Year

EGR 114	Arch. Drawing I	3
EGR 118	Structural Drawing I	3
EGR 190	Tech. Report Writing	3
EGR 204	Plane Surveying	3
TEC 224	Production Illustration	3
	P.E. Activity	1

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EGR 214	Arch. Drawing II	3
TEC 116	Est. Building Trades	3
TEC 216	Mat. Arch. Constr.	3
TEC 410	Production Drafting	3
TEC 306	Model Building	3

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PRE-ENGINEERING TRANSFER PROGRAM

Freshman Year

Fall Semester

MAT 107	Calculus with Anal. Geom. I	5
EGR 104	Engineering Graphics	3
ENG 104	Composition I	3
SPH 104	Oral Communication	3
EGR 106	Slide Rule	1

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Spring Semester

MAT 108	Calculus with Anal. Geom. II	5
PHY 210	University Physics I	5
EGR 301	Elementary Struct. Design	3
EGR 225	Mat. Testing Lab I	1
EGR 204	Plane Surveying I	3

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Sophomore Year

EGR 200	Statics	3
MAT 209	Calculus with Anal. Geom. III	5
PHY 211	University Physics II	4
EGR 260	Circuit Theory I	4

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EGR 300	Dynamics	3
EGR 230	Mechanics of Materials	3
EGR 235	Mat. Testing Lab II	1
MAT 312	Differential Equations	3
PHY 212	University Physics III	3
EGR 360	Circuit Theory II	3

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Junior Year

EGR 340	Thermodynamics	3
EGR 190	Tech. Report Writing	3
CHE 111	General Chemistry I	5
ECO 260	Prin. of Economics I	3
MAT 332	Math. Statistics	3

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EGR 320	Fluid Mechanics	3
EGR 108	Descriptive Geometry	3
CHE 120	General Chemistry II	5
ENG 108	Composition II	3
CSC 182	Intro. to Data Processing	3

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PRE-ARCHITECTURE TRANSFER PROGRAM

Freshman Year

Fall Semester

SPH 104	Oral Communication	3
ENG 104	Composition & Rhetoric I	3
SOC 110	Intro. to Sociology	3
HIS 110	Modern Civilization	3
ART 130	Beginning Drawing	3
EGR 114	Arch. Drawing I	3

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Spring Semester

ENG 108	Composition & Rhetoric II	3
ART 260	Two-Dimensional Design	3
MAT 107	Calculus with Anal. Geom I or MAT 105 College Algebra	5
EGR 108	Descriptive Geometry	3
EGR 115	Arch. Drawing II	3

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Sophomore Year

EGR 204	Plane Surveying I	3
EGR 190	Tech. Report Writing	3
ESC 204	Intro. to Geology	3
HUM210	Intro. to Philosophy	3
HIS 150	U.S. History Since 1865	3
EGR 106	Slide Rule	1

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PSY 101	General Psychology	3
MAN 310	Business Law I	3
ESC 304	Environmental Earth Sci.	3
ECO 260	Prin. of Economics I	3
EGR 404	Soil Mechanics	3

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Department of

MILITARY SCIENCE

The Department of Military Science administers the Reserve Officer's Training Corps (ROTC) program to those students desiring to enroll in Army ROTC. The purpose of Army ROTC is to develop qualities of leadership and skills in college-trained men and women in order to provide the Army and the civilian community with well-rounded leaders. The Army ROTC program is designed to provide broad leadership education rather than to develop military specialists. All courses are open to any student regardless of whether or not they enroll in the ROTC program.

The general military science curriculum at Missouri Western State College provides the cadet with the general leadership management and military skills needed to qualify for a commission in any of the branches of the Army. The student is afforded the opportunity to apply this training during field training conducted off campus. This curriculum alone does not lead to a degree, but is to be utilized in conjunction with another department granting a degree.

A commission as a Second Lieutenant in the United States Army Reserve is granted to the individual who completes either the Two-Year or Four-Year ROTC Program and obtains a baccalaureate degree from this College. Currently, a college graduate who is commissioned through ROTC is placed on active duty for either six months or two years, depending on his desires and on needs of the service at the time of graduation.

FOUR-YEAR ROTC PROGRAM: This course of study consists of MIL 100, 110, 200, 210, 300, 310, 400, and 410. In addition, a student must attend a six-week advanced camp at Fort Riley, Kansas, normally between the junior and senior years. During this camp, the student receives pay of approximately \$475, plus travel expenses. A student incurs no service obligation for attendance in MIL 100, 110, 200, or 210. Entrance to the advance course is subject to the approval of the PMS.

TWO-YEAR ROTC PROGRAM: This course of study is for students who were unable to enroll in ROTC during their first two academic years. This program substitutes a six-week basic camp for MIL 100, 110, 200, and 210. The remainder of the course is the same as the four-year program. Pay for students while attending basic camp is approximately \$516, plus travel expenses.

PLACEMENT CREDIT FOR VETERANS: Prior service personnel desiring a commission through ROTC may receive placement credit for 100 and 200 level courses and enter directly into the advance course (last two years of Military Science). The monthly financial aid of \$100.00 does not affect other financial benefits available to veterans. Interested veterans should contact the Director of Military Science for placement credit and permission to enter the advance course.

MONETARY ALLOWANCES: All ROTC students are furnished texts for their military science courses and uniforms for wear during leadership laboratory. Students enrolled in the last two years of military science receive \$100.00 per month, during the school year, not to exceed ten months per year. In addition, those cadets attending summer camps receive travel pay to and from the camp and monthly financial aid as previously described.

SCHOLARSHIPS: One, two, three, and four-year scholarships are awarded each year to selected students who enroll in the Army ROTC Program. The scholarships provide payment of all tuition, fees, textbooks, and a monthly payment of \$100 for the duration of the scholarship, not to exceed 10 months for each year of the scholarship.

MIL100 Development of the Defense Establishment (1) i, ii
An examination of the evolution of the United States Military Defense System and the citizen soldier concept to include the evolution of warfare and development of weapons.

MIL010 Leadership Laboratory (0) i
Introduction to movement of small units and adventure training in basic mountaineering.
Prerequisite: Concurrent enrollment in MIL 100

MIL110 The Defense Establishment in National Security (1) i, ii
A study of the organization and functions of the defense establishment of the United States to include the interrelations between services under the Department of Defense and the relationship of the Department of Defense to constitutional civil authority.

MIL011 Leadership Laboratory (0) ii
Basic military leadership, first aid and small unit movement.
Prerequisite: Concurrent enrollment in MIL 110

MIL200 American Military History (2) i, ii
A general study and application of the development of the American Military System from colonial times to the present.

MIL020 Leadership Laboratory (0) i
Adventure training in basic mountaineering and the study of military weapons.
Prerequisite: Concurrent enrollment in MIL 200

MIL210 Map Reading and Small Unit Tactics (2) ii
The study of map reading and analysis, offensive and defensive principles, small unit organization and tactics.

MIL021 Leadership Laboratory (0) ii
Basic study and practicum map reading and military leadership.
Prerequisite: Concurrent enrollment in MIL 210

MIL300 Leadership and Management I (2) i
An investigation into studies of military leadership; organizational and individual psychology in the military environment; military leader-subordinate interaction and interrelationships with emphasis on case studies from

military experiences. Practical application of the military instruction methodology concludes the course.
Prerequisite: MIL 210 or permission of Director

MIL030 Leadership Laboratory (0) i
Instruction and practicum in leadership, organization, and planning of basic military teams.
Prerequisite: Concurrent enrollment in MIL 300

MIL310 Fundamentals and Dynamics of the Military Team I (2) ii
The study of the principles and fundamentals of military operations, the decision making process, planning, communications and tactics of military units.
Prerequisite: MIL 300 or permission of Director

MIL031 Leadership Laboratory (0) ii
Advanced study and practicum in map and compass techniques and the organization and planning of military teams.
Prerequisite: Concurrent enrollment in MIL 310

MIL400 Fundamentals and Dynamics of the Military Team II (3) i
Discussion and application of the principles of military organization and management. Includes the comprehensive study of executive decision-making and communication; operation; training; logistics; intelligence; and personnel.
Prerequisite: MIL 310 or permission of Director

MIL040 Leadership Laboratory (0) i
Practicum in management and military leadership.
Prerequisite: Concurrent enrollment in MIL 400

MIL410 Leadership and Management II (3) ii
Advanced study of leadership and management in examining the areas of administration at the company level and military justice. Also an inter-disciplinary seminar on the military implications of world change. Concludes with an overview of the obligations and responsibilities of an Officer.
Prerequisite: MIL 400 or permission of Director

MIL041 Leadership Laboratory (0) ii
Practicum in management and military leadership.
Prerequisite: Concurrent enrollment in MIL 410

department of

NURSING

The Department offers a nursing program leading to an Associate of Science degree. Throughout the curriculum, specific content and learning experiences are planned to move from an emphasis on the well person and the concepts of health and the maintenance of homeostasis to the development and utilization of nursing concepts related to illness.

The following objectives are believed to be essential learning needs for students in the program.

1. To understand the basic biophysical and psychosocial factors that influence an individual's behavior and his ability to maintain homeostasis.
2. To understand the body of knowledge that is basic for direct nursing care to patients.
3. To use the problem-solving approach as a basis for action in giving nursing care.
4. To develop the ability to give nursing care to patients based on immediate and long-range goals.
5. To know the responsibilities and relationships of the nurse with other members of the health team.

Students in the associate degree nursing program must make a letter grade of C or better in nursing courses to meet requirements as determined by the State Board of Nursing—Missouri.

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

ADMISSION TO THE NURSING PROGRAM

A selection committee reviews all applicants and determines those students who will be admitted to each class. In order to be eligible for possible selection for the fall class, an individual must contact the department chairman for an application form before February 1. At this time the other requirements for admission will be explained.

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

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

NURSING

NUR150 Nursing I (Fundamentals of Nursing) (6) i

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

Prerequisite: Approval of department chairman.

NUR151 Nursing II (Maternal and Child Health) (8) ii

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

Prerequisite: Nursing 150.

NUR250 Nursing III (Physical and Mental Illness I) (10) i

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

Prerequisite: Nursing 151.

NUR251 Nursing IV (Physical and Mental Illness II) (10) ii

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

Prerequisite: Nursing 250.

SAMPLE PROGRAM
Associate of Science
Nursing
Freshman Year

Fall Semester

NUR 150	Nursing I	6
BIO 250	Anatomy and Physiology	5
CHE 104	Fundamentals of Chemistry	4
ENG 104	English Composition	3
		<hr/>
		18

Sophomore Year

NUR 250	Nursing III	10
PSC 101	Amer. Nat'l Gov't or	
HIS 140	Amer. Hist. or	
HIS 150	Amer. Hist.	3
PSY 101	General Psychology	3
	P.E. Activity	1
		<hr/>
		17

Spring Semester

NUR 151	Nursing II	8
BIO 251	Public Health Microbiology	4
PED 101	Concepts of Physical Activity	1
SOC 110	General Sociology	3
		<hr/>
		16

NUR 251	Nursing IV	10
	Introductory Humanities	3
	Speech	3
		<hr/>
		16



Career Programs

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

The objectives of the Career Programs are:

- To develop the skills, knowledges and attitudes necessary to enter and/or advance in the various career areas.
- To assist students in selecting educational experiences which will facilitate their being well-rounded productive citizens.
- To assist the program graduates in securing responsible positions in their chosen careers.

AUTOMOTIVE TECHNOLOGY

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

Automobile and truck dealers; Service Stations; Automotive Service Centers; and Automotive Service Departments of various sized companies.

Major in Automotive Service Management: Business 110; Engineering 104; Mathematics 110; Technology 100, 112, 140, 210, 315, 330, 375, 390, 450 and 455.

Automotive Technology

AUT100 Automotive Engines (3) i

Designed as an introductory course to the field of automotive industrial technology. Studied are a variety of internal combustion engines with emphasis placed on acquainting the student with the present-day, four-cycle, multiple cylinder, liquid cooled, overhead valve engine designed for vehicular use. Included is a brief history of heat engines, their development into present designs and why, engine component material considerations and manufacturing processes, principles of engine operation, engine measurements, engine construction, engine assemblies, sub-assemblies, functional systems, and why the present-day internal combustion engines still receive the most intensive engineering considerations.

AUT112 Automotive Engine Analysis (3) ii

Engine analysis is designed to broaden engine fundamentals gained in Auto Engines. Utilizing automotive lab engines and equipment, disassembly, inspection, measurements observation, and reassembly procedures are carried out, concepts of precision machining and experiences in precision measurements are introduced, mass produced engine components and their respective manufacturing processes are studied with emphasis on how and why, a working knowledge of engine components and/or assemblies and rebuilding techniques are observed and practiced by the students. Diagnostic and service equipment is studied and a practical and workable knowledge of the equipment is gained by the "hands on" approach.

AUT210 Automotive Suspensions and Chassis (3) i

A course designed to acquaint the student with various automotive chassis and suspension systems and the related components which initiate braking, steering, and springing of present-day automobiles. Includes front-end geometry, how and why, front-end alignment, acquaintance of manual and power assist steering units, manual and power assist braking design and service, and front and rear suspension design and service.

Prerequisite: Auto Engines 100 and Auto Engine Analysis 112.

AUT315 Automotive Electrical and Fuel Systems (3) i

The objective of this course is to acquaint the student with automotive electrical components, fuel system components, and the diagnosing and servicing procedures of both. This objective is achieved through the combination of classroom and laboratory learning experiences. Included are design, construction, diagnosing, and servicing of ignition systems, the electrical system, batteries, starting system, accessory systems, and fuel systems encompassing carburetors and emission controls.

Prerequisite: Auto Engines 100, Auto Engine Analysis 112, and Circuit Analysis 140.

AUT330 Automotive Power Transmission Mechanisms (3) ii

A course encompassing components of the modern automotive power train mechanisms. It is designed to familiarize the student with the total automotive drive train covering components located between the engine and the drive wheels. Included are clutches, fluid couplings and torque converters, standard transmissions, overdrives, fundamentals of automatic transmissions, universal joints, drive shafts, differentials, and transaxles.

Prerequisite: Automotive Engines 100, Auto Engine Analysis 112, and Applied Hydraulics and Pneumatics 375.

AUT455 Service Techniques Laboratory (5) ii

Provides automotive laboratory experience on stationary engines and live automobiles in conjunction with related classroom material. Emphasis is placed on procedure and technical knowledge derived from preceding automotive and industrially related courses. Includes diagnostic procedures, servicing, and shop management principles. It is designed to give a student further insight into the workday and operational characteristics of an automotive service shop and to further develop mechanical skills.

Prerequisite: All lower numbered automotive classes; Service Management Seminar 450 or concurrently.

SAMPLE PROGRAM
Automotive Service Management
Associate of Science Degree

Freshman Year

Fall Semester	
AUT 100 Auto Engines	3
MAT 110 Tech Math I	5
TEC 140 Circuit Analysis I	4
EGR 104 Engineering Graphics	3

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Sophomore Year

AUT 210 Auto Suspension & Chassis	3
AUT 315 Auto Electrical & Fuel Systems	3
TEC 450 Service Mgmt. Seminar	3
P.E. Activity	1
Speech	3
Elective	3

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Spring Semester

AUT 112 Auto Engine Analysis	3
MGT 110 Business Organization	3
TEC 375 Applied Hydraulics and Pneumatics	3
PED 101 Concepts of Physical Activity	1
PSC 101 Amer. Gov't. or HIS140 Amer. Hist. or HIS150 Amer. Hist.	3
ENG 104 English	3

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CRIMINAL JUSTICE

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

State, County and Local Law Enforcement Agencies; Federal Investigative Agencies; Corrections; Private Investigative Agencies and Industrial Security.

LAW100 Introduction to Criminal Justice (3) i, ii, iii

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

LAW120 Patrol Operations (3) i, ii, iii

A survey of the responsibilities and duties of the uniformed patrol. Special emphasis is placed upon patrol procedures, the mechanics of arrest, search and seizure, the interpretation and evaluation of information received on patrol, and the importance of accurate report writing.

LAW140 Traffic Control and Accident Investigation (3) i, ii, iii

An introduction to traffic control and accident investigation in modern cities. Reviews the principles of organizing and administering police units for traffic enforcement, accident prevention and safety education. Presents the basic techniques of accident investigation, analysis and interpretation.

LAW160 Principles of Investigation (3) i, ii, iii

An introductory course on modern investigative methodology. Particular attention is given to the importance of information, interrogation, and instrumentation in the solution and preparation of criminal cases for trial.

Prerequisite: LAW100

LAW180 Public Service and Community Relations (3) i

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

LAW200 Penology and Corrections (3) ii

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

Prerequisite: Six hours in the field of Criminal Justice.

LAW220 Police Administration (3) i

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

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

LAW240 Juvenile Delinquency (3) ii

The study of the delinquent juvenile as an individual and the impact on society. Investigates delinquency, causation, the role of the law enforcement officer, the juvenile officer, the juvenile court and juvenile corrections.

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

LAW260 Criminal Law (3) i

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: Fifteen (15) hours in the field of Criminal Justice or consent of Instructor.

LAW280 Criminalistics (3) ii

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

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

- LAW299 Practicum in Criminal Justice (3) i, ii, iii**
A course of instruction designed to provide students with practical experience in a supporting capacity within a local criminal justice agency.
Prerequisite: Consent of Instructor

- LAW300 Seminar in Criminal Justice (3) i, ii**
A course designed to provide students with additional opportunities to research, discuss, and explore special areas of interest within the criminal justice system.
Prerequisite: Consent of Instructor.

SAMPLE PROGRAM
Criminal Justice
Associate of Science Degree

Fall Semester		Freshman year		Spring Semester	
LAW 100	Introduction to Criminal Justice	3	LAW 160	Principles of Investigation	3
LAW 120	Patrol Operations	3	LAW 200	Penology and Corrections	3
LAW 140	Traffic Control & Accident I	3	ENG 104	English	3
	Speech	3		Introductory Humanities Course	3
	Supporting Elective	3		Supporting Elective	3
			PED 101	Concepts of Physical Activity	1
		15			16
Third Semester		Sophomore Year		Fourth Semester	
LAW 220	Police Administration	3	LAW 280	Criminalistics	3
LAW 180	Public Service and Community Relations	3	LAW 299	Practicum in Criminal Justice	3
LAW 260	Criminal Law	3		Supporting Electives	9
PSC 101	Amer. Gov't. or HIS 140 Amer. Hist.	3		P.E. Activity	1
	Hist. or HIS 150 Amer. Hist.	3			
	Supporting Elective	3			
		15			16

SECRETARIAL SCIENCE

The Secretarial Science Program is designed to prepare individuals for clerical and secretarial careers in various public and private organizations such as:

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

Major in Executive Secretary: MGT 110, 116 or 210; ACC 230; ECO 260; CSC 182; SEC 141, 144, 145, 240, 340, 341, 342, and 343; and a selected elective.

Major in Secretarial Certificate:

Option I—MGT 110 and 116; SEC 141, 144*, 145, 240, and 342.

Option II—MGT 110 and 116; SEC 141, 145, 240, 340, and 342.

*Not available to students who have had one unit of high school credit in shorthand.

Major in Clerical Certificate: MGT 110 and 116; ACC 230; SEC 141, 240, and 342; and a selected elective.

- SEC140 Elementary Typewriting (3) i, ii, iii**
Beginning typewriting with emphasis on techniques of typewriter operations, skill development, and typing of letters and manuscripts. Students who have received one-half credit or more in high school for typewriting are not permitted to take this course for credit. Three hours lecture. Two hours lab.

- SEC141 Intermediate Typewriting (3) i, ii, iii**
Emphasis on developing speed and accuracy, typing business letters, manuscripts, and business forms. Minimum net speed of 25 words per minute is needed to take the course. Three hours lecture and two hours lab.
Prerequisite: Secretarial 140 or equivalent.

- SEC144 Elementary Shorthand (3) i, ii**
Beginning course in which principles of Gregg Shorthand, Diamond Jubilee Series, is taught. Students who have received one high school credit for shorthand are not permitted to take this course for credit. Three hours lecture and two hours lab.
Prerequisite: Secretarial 140 or equivalent, and Preparatory English 010 or equivalent.

- SEC145 Intermediate Shorthand (3) i, ii, iii**
A continuation of Elementary Shorthand 144 with emphasis on increasing dictation skills. Minimum dictation speed of 60 words per minute on new material is needed to take this course. Intermediate typewriting 141 should precede or parallel this course. Three hours lecture and two hours lab.
Prerequisite: Elementary Shorthand 144 with "C" grade or better or one year of high school shorthand with "C" or better.

- SEC240 Office Typing Problems (3) i, ii, iii**
Office standards in typing business letters, forms, legal material, numbers and tabulation. Emphasis is placed upon the production of mailable copy. Minimum net speed of 40 words per minute is needed to take this course. Three hours lecture and two hours lab.
Prerequisite: Secretarial 141 with "C" grade or better.

- SEC340 Advanced Shorthand (3) i, ii, iii**
A continuation of Intermediate Shorthand 145 with further development of dictation and transcription skills.

Minimum dictation speed of 80 words per minute is needed to take this course. SEC 240 must precede or parallel this course. Three hours lecture, two hours lab.
Prerequisite: Secretarial 145 with "C" grade or better.

- SEC341 Secretarial Dictation and Transcription (3) i, ii, iii**
A continuation of Advanced Shorthand 340 in which students are exposed to dictation and transcription of vocabulary of various types of businesses. Emphasis is on producing mailable transcripts. A minimum dictation rate of 100 words a minute is needed to take this course. Three hours lecture and two hours lab.
Prerequisite: SEC 340 with "C" or better.

- SEC342 Model Office I (6) i, ii**
Simulated model office experience designed to integrate a wide range of knowledge and skill in modern office practice. Integrates traditional courses in secretarial procedures, communications, office management and machines. SEC 240 must precede or parallel this course. Meets in 2 hour block daily. 6 hours lecture, 4 hours lab.

- SEC343 Model Office II (6) i, ii**
Continuation of Model Office I with emphasis on advanced modern office management. Replaced 149 Secretarial Communications and 314 Office Management. Meets in two hour block daily. 6 hours lecture, 4 hours lab.
Prerequisite: Secretarial 342.

SAMPLE PROGRAM Executive Secretary Associate of Science Degree

Freshman Year			
First Semester		Second Semester	
110 Business Organization	.3	240 Office Typing Problems	.3
104 English	.3	145 Intermediate Shorthand	.3
116 Math of Finance or 210 Business Statistics	.3	230 Elementary Accounting I	.3
141 Intermediate Typing	.3	101 Amer. Gov't. or 140 Amer. Hist. or 150 Amer. Hist.	.3
144 Elementary Shorthand or Selected Elective	.3	Speech	.3
	15	101 P.E. Concepts	.1
			16
Sophomore Year			
Third Semester		Fourth Semester	
340 Advanced Shorthand	.3	341 Secretarial Dictation and Transcription	.3
342 Model Office I	.6	343 Model Office II	.6
Introductory Humanities Course	.3	260 Principles of Economics	.3
182 Intro. to Data Processing	.3	Selected Elective	.3
101 P.E. Activity	.1		15
	16		

SAMPLE PROGRAM Clerical Certificate Program Freshman Year

First Semester		Second Semester	
110 Business Organization	.3	240 Office Typing Problems	.3
104 English	.3	230 Principles of Financial Accounting	.3
116 Math of Finance	.3	342 Model Office I	.6
141 Intermediate Typewriting	.3	Selected elective	.3
101 Amer. Gov't. or 140 Amer. Hist. or 150 Amer. Hist.	.3	P.E. Activity	.1
	15		16

SAMPLE PROGRAM Secretarial Certificate Program Sophomore Year

First Semester		Second Semester	
110 Business Organization	.3	240 Office Typing Problems	.3
104 English	.3	342 Model Office I	.6
116 Math of Finance	.3	340 Advanced Shorthand	.3
141 Intermediate Typewriting	.3	101 Amer. Gov't. or 140 Amer. Hist. or 150 Amer. Hist.	.3
145 Intermediate Shorthand	.3	P.E. Activity	.1
	15		16

PILOT TRAINING

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

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

PILOT TRAINING

- PTR120 Private Flight (3) i, ii**
Flight maneuvers leading to private pilot, single engine, Land Certificate. 2 hours lecture, 4 hours lab.
- PTR123 Private Ground (3) i, ii**
Ground training leading to a private pilot, single engine, Land Certificate. To be taken concurrently with PTR 120.
- PTR126 Commercial Flight I (3) i, ii**
Continuation of flight training leading to qualification for commercial license. 2 hours lecture, 4 hours lab.
Prerequisite: PTR 120.
- PTR129 Commercial Ground (3) i, ii**
Advanced weights and balances, meteorology, flight computers, navigation and radio, Federal Aviation regulations, and flight maneuvers. To be taken concurrently with PTR 126.
Prerequisite: PTR 123.

- PTR240 Commercial Flight II (3) i, ii**
Continuation of Commercial Flight I. May be taken at the convenience of the student and the flight school. 2 hours lecture, and 4 hours lab.
Prerequisite: PTR 126.
- PTR243 Instrument Flight (3) i, ii**
Flight maneuvers and planning by sole reference to flight instruments. 2 hours lecture, 4 hours lab.
Prerequisite: PTR 126.
- PTR246 Instrument Ground (3) i, ii**
Aircraft instruments and systems; instrument flight rules, flight charts, shorthand clearances, visual omni-range flight procedure, instrument landing systems, and automatic direction finder approaches. To be taken concurrently with PTR 243.
Prerequisite: PTR 129.
- PTR249 Instructor Flight (3) i, ii**
Flight teaching procedure. 2 hours lecture, 4 hours lab. To be taken concurrently with PTR 243 and PTR 246.
Prerequisite: PTR 240.

SAMPLE PROGRAM Pilot Training Associate of Science Freshman Year

First Semester		
ENG 104	English .....	.3
PSC 101	Amer. Gov't. or HIS 140 Amer. Hist. or HIS 150 Amer. Hist. ....	.3
PTR 120	Private Flight .....	.3
PTR 123	Private Ground3
PED 101	Concepts of Physical Activity1
	Elective3

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Sophomore Year

	Introductory Humanities Course3
PTR 240	Commercial Flight II3
	Electives9

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Second Semester		
SPH	Speech3
PTR 126	Commercial Flight I3
PTR 129	Commercial Ground3
MAT 103	Intermediate Algebra or MAT 110 Tech Math (5)3
PED	PE Activity1
	Electives3

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PTR 243	Instrument Flight3
PTR 246	Instrument Ground3
PTR 299	Instructor Flight3
	Electives6

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THE CENTER FOR CONTINUING EDUCATION

Through the Center for Continuing Education, Missouri Western State College provides a variety of programs ranging from one-day seminars and workshops to specialized courses of longer duration. The resources of the campus and community are utilized through the center in the College's efforts to meet the educational needs of area adults.

Specifically, the activities of the Center for Continuing Education are guided by the following statement of purposes:

1. Offer opportunities to citizens of the community to pursue educational experiences which:
 - a. lead to re-training for new or up-dated careers in vocational or technological fields.
 - b. promote improvement of professional competencies.
 - c. enable the individual to broaden his cultural knowledge.
 - d. enhance the pursuit of avocational interests.
2. Provide services to the community by organizing, sponsoring or co-sponsoring specialized short courses, workshops, and seminars designed to be of value to identifiable groups or organizations and to the public at large.

Admission and Registration Procedures:

1. Non-credit offerings: Admission and Registration procedures for non-credit offerings are generally done either by mail, telephone, or at the opening session of the particular offering. Typically, the completion of a simple form is all that is required.
2. Credit offerings: Students registering for credit offerings must comply with the standards set forth in Category VI of Admissions Policies, page 13. These are:
 1. Application for admission
 2. \$5.00 Matriculation fee. (If you have not previously attended Missouri Western State College).
 3. Health History form.

Fees: Because of the diverse nature of programs offered through the Center for Continuing Education, registration fees vary from one offering to another. Fees are set by the Center and published at the time a particular program announcement is made.







The Division of **EDUCATION AND PSYCHOLOGY**

THE DEPARTMENTS OF:

*Elementary and Special Education
Secondary Education
Health, Physical Education, and Recreation
Psychology*

The Division of Education and Psychology contributes to all facets of education within the College. Required and elective courses assist students in the area of general educational needs; comprehensive offerings lead to the fulfillment of degree requirements; and the varied electives lead to program enrichment and to teacher certification.

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

The objectives of the Division of Education and Psychology are to provide students an opportunity for:

1. PROFESSIONAL DEVELOPMENT

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

2. PERSONAL DEVELOPMENT

A variety of courses are available through which a student may broaden and enrich his understanding of himself, man, and society.

3. CAREER EXPLORATION

Through a blend of on-campus theory courses and off-campus experiences, the student can explore the field of his choice as early as his or her sophomore year.

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

departments of

ELEMENTARY AND SPECIAL EDUCATION AND SECONDARY EDUCATION

Teacher Education

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

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

Admission to the Teacher Education Program:

1. General requirements for applicants.
 - a) The student's record must be without incident, which could be detrimental to his success as teacher.
 - b) He must be of good moral character as demonstrated by objective evidence.
 - c) He must be free from gross physical defects which could make his success as a teacher unlikely.
 - d) He must have command of standard acceptable English usage and be able to communicate as expected of a teacher.
 - e) He must be a student in good standing at Missouri Western State College.
 - f) Approval by the Teacher Education Admissions and Retention Committee of each application will be contingent upon the above.
2. Formal application for initial admission to the Participation in Teaching I program.

Special Requirements:

 - a) 2.0 overall grade point average.
3. Re-evaluation of the above application will be made prior to entrance into Experience in Teaching II.

Special Requirements:

 - a) 2.0 overall grade point average.
 - b) Recommendation of college personnel and cooperating school personnel.
4. Final evaluation will be made prior to entrance into Student Teaching III.

Special Requirements:

 - a) 2.3 grade point average in major field and professional sequence courses.
 - b) 2.0 overall grade point average.
 - c) At least a 2.0 for each course in the professional sequence.
 - d) Recommendations from college personnel and cooperating school personnel.

Special Programs:

1. Academic Contracts (2-year temporary Missouri Certification): Academic Contracts are available at Missouri Western State College. Interested persons should contact the Dean of the Division of Education and Psychology.
2. Summer Student Teaching is offered for experienced teachers only and will be arranged by individual application and arrangement with the appropriate Department Chairman and Dean.

department of

ELEMENTARY and SPECIAL EDUCATION

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

- a. highly knowledgeable in the cognitive areas
 - b. trained in the techniques and methods of teaching across the wide spectrum (early childhood through elementary grades)
 - c. warm, understanding, and empathetic in the area of humanizing education
 - d. ready to assume an active role in the profession of teaching
1. The general education requirements must be satisfactorily completed.
 2. In addition to the professional sequence, the elementary education major is required to take the following courses: Political Science 101, Mathematics 300 and 400, Art 300, Music 300, Education 310, 320, 383, Physical Education 300, and 382, Earth Science 304, Geography 100, English 300, and History 140 and 150. Some of these courses meet both General Studies and Elementary Education requirements.
 3. The elementary major may also select a special teaching area or an emphasis area from one of the following: Physical Education, Music, Art, Special Education, Social Science, Science, Reading, Language Arts, Foreign Language, Mathematics, Early Childhood, or an area approved by the Department Chairman.
 4. Special Education: The student while obtaining a degree in elementary or secondary education may also take work toward dual certification in special education areas of Learning Disabilities, Mental Retardation, and Emotionally Disturbed.
 5. Remedial Reading: A student may complete the Life Certification in Remedial Reading concurrently with his Life Certificate in Elementary or Secondary Education.
 6. Early Childhood Education for Elementary Certificate: In addition to meeting all requirements for a Life Certificate in Elementary Education, a student may earn an Early Childhood Education endorsement. If an experienced teacher or an advanced student seeks this endorsement, an individualized program based on experience will be developed by the staff.
 7. The Professional sequence is as follows:

Course	Number	Semester Hrs.
Participation in Teaching I	EED202	3
Experience in Teaching II	EED303	3
Educational Psychology; Psychology in Teaching	EED305	4
Foundations in Education (Elementary)	EED403	2
Student Teaching; Student Teaching III	EED408	10
Education of the Exceptional Child	EED410	2
		—
		24

ELEMENTARY EDUCATION COURSES

EED101 Speed Reading (2) i, ii, iii
The course is designed to improve the skills, speed, and comprehension of those individuals who feel a need for such improvement in school, profession, business, or recreational pursuits. The course is open to both regularly enrolled students or any interested individual.

EED202 Participation in Teaching I (3) i, ii
(Applicable to all teacher education students) To help the student in his career choice, half of the course is devoted to a classroom situation where an introduction to education, its history and philosophy is given. The second half of the course is devoted to a "in-school experience", giving the student realistic guidance in his career choice.

EED303 Experience in Elementary Teaching II (3) i, ii
(Applicable to all teacher education students) A continuation of the off-campus experiences in cooperating schools as a teacher associate. To be taken concurrently with EED305 or SED304.
Prerequisite: Approved admission to the Teacher Education Program and Education 202. For elementary majors, Education 310 is a prerequisite.

EED305 Psychology in Elementary Teaching (4) i, ii
A study of psychological principles as applied to educational settings. To be taken concurrently with Education 303.
Prerequisite: Psychology 101 and Education 202.

- *EED306 Current Trends in Education (3) i, ii**
A study of educational innovations, new media, concurrent teaching problems and issues.
Prerequisite: Education 303 and Ed. 305-Elementary or Ed. 304-Secondary.
- EED310 Teaching of Reading in the Elementary School (3) i, ii**
Developmental reading, the techniques of teaching reading in the elementary grades.
Prerequisite: English 104 and 108 or 112.
- *EED311 Teaching Reading in the Secondary School (3) i**
Techniques of teaching upper-level reading.
Prerequisite: English 104 and 108 or 112.
- EED320 Language Arts Methods (3) i, ii, iii**
A general survey course to integrate the skills of listening, writing, and speaking with the reading skills.
- EED322* Language Arts Components (1-6) i**
A component-sectioned course designed to give students in-depth experiences in selected sections to meet special needs and interests. A student may take as many sections as desired.
a. Creative Dramatics b. Written Expression c. Poetry d. Listening e. Speech Development f. Handwriting g. Oral Communication h. Spelling i. Grammar and Linguistics j. Language Arts for Children.
- *EED331 Audio-Visual Education (1-3) ii**
(See Department of Secondary Education.)
- EED342 Measurement and Evaluation in Education (3) i, iii**
Principles and techniques of administration, application and interpretation of tests, test results, and data for education majors.
Prerequisite: Education 303 and Ed. 305—Elementary or Ed. 304—Secondary (Comp. I), Math 201 or consent of Department Chairman.
- EED345 Classroom Testing and Evaluation (1-3) i**
A component-sectioned course designed to give students in-depth experiences in selected sections to meet special needs and interests.
a. Classroom Test Construction b. Standardized Testing c. Evaluation and Reporting
- EED383 Diagnostic and Corrective Reading for the Classroom Teacher (3) i, ii, iii**
Evaluation and diagnosis of basic reading problems.
Prerequisite: Education 310 or 311.
- EED385* Explorations in Reading Approaches (1-6) ii**
A component-sectioned course designed to give students in-depth experiences in selected sections to meet special needs and interests. The refinement of teaching techniques using particular reading methods to prepare teachers for those programs which are currently used in area schools. It is recommended that a student take no more than six sections. Each section is one semester hour.
a. Phonic Methods b. Linguistic Methods c. Enrichment Methods d. i/v/a e. Language-experience f. Programmed Methods g. Basal Programs h. Individualized Reading
Prerequisite: Elementary 310 or 311.
- EED403 Foundations in Elementary Education (1) i, ii**
An introduction and appraisal of the problems facing the teacher in the classroom, school, and society. To be taken concurrently with Education 408.
- EED408 Elementary Student Teaching III (10) i, ii**
A semester of clinical experience in an off-campus situation under a cooperating teacher. To be taken concurrently with Education 403.
Prerequisites: Education 202, 303, 305.
- EED410 Education of the Exceptional Child (2) i, ii, iii**
A course designed to give all teachers background and experience in working with the exceptional child in the regular classroom.
- EED413 Speech Correction for the Classroom Teacher (3) ii, iii**
Methods and techniques of speech correction applied and utilized by the classroom teacher.
- EED414 Methods of Teaching the Mentally Retarded (3) i**
Special techniques for teaching a typical child.
Prerequisite: Education 303, 305, or approval of the Department Chairman.
- EED415 Methods of Teaching the Emotionally Disturbed (3) ii**
Special techniques for teaching the emotionally disturbed child.
Prerequisite: Education 303, 305 or approval of the Department Chairman.
- EED416 Methods—Learning Disabilities (3) ii, iii**
Special techniques for teaching the child with learning disabilities.
Prerequisite: Education 303, 305 or approval of the Department Chairman.
- EED420 Education and Psychology of the Disadvantaged (2) i**
A study designed to provide the student with a background to meet the educational and psychological needs of the disadvantaged. (On demand the course will be offered Spring and/or Summer.)
- EED440* Early Childhood Education (1-6) i, ii, iii**
A component-sectioned course designed to give the student in-depth understanding of early childhood education. A student may elect one or more sections.
a. Child Development b. Methods and Materials c. Parent Education d. Preschool Education e. Creativity f. Self-Concept.
Prerequisite: Approval of the Education Department Chairman.
- EED450 Independent Study (credit hours open) i, ii, iii**
A research-oriented involvement intended to extend the competencies of the student in a particular area of education.
Prerequisite: Approval of the Education Department Chairman.
- EED483 Practicum I (Diagnosis of Reading Difficulties) (4) i, ii, iii**
A clinical diagnosis in evaluation of reading and learning problems.
Prerequisite: Education 310, 383, and consent of the Education Department Chairman. (2 hours lecture, 3 hours laboratory.) Course can only be taken on Missouri Western State College campus.
- EED484 Practicum II (Remediation of Reading Difficulties) (4) i, ii, iii**
A clinical treatment of identified reading and learning problems.
Prerequisite: Education 483. (2 hours lecture, 3 hours laboratory.) Course can only be taken on Missouri Western State College campus.
- EED490 Applied Educational Practices (1-9)**
Workshops will be developed in selected areas in accordance with interest and felt needs.

SAMPLE PROGRAM **Elementary Education**

Freshman Year			
First Semester		Second Semester	
ENG 104 English .....	.3	ENG 108 English .....	.3
MAT 101 Math .....	.3	HIS 150 Am. History .....	.3
HIS 140 Am. History .....	.3	BIO 101 Biology .....	.5
SPH 104 Speech .....	.3	GEO 100 Geography .....	.3
PED 101 P.E. Concepts .....	.1	P.E. Activity .....	.1
PED 300 El. School Health .....	.2		
	<u>15</u>		<u>15</u>
Sophomore Year			
EED 202 Participation I .....	.3	MAT 300 Math .....	.3
EED 310 Elem. Reading .....	.3	ENG 210 App. to Lit. ....	.3
PSC 101 Pol. Sci. (Govt.) .....	.3	*PSY 312 Psych. of Ex. Chld .....	.3
Physical Sci. ....	.4-5	P.E. Activity .....	.1
P.E. Activity .....	.1	EED 383 Diag. Reading .....	.3
Elective .....	.2	Elective .....	.3
PSY 101 Gen. Psych .....	.3	*EED 342 Meas/Eval. ....	.3
	<u>19-20</u>		<u>19</u>
Junior Year			
EED 303 Experience II .....	.3	MAT 400 Math .....	.4
EED 305 Psych. in Teaching .....	.4	ESC 304 Environ. Sci .....	.4
MUS 300 Music .....	.3	ART 300 Art .....	.3
ENG 300 Child. Lit. ....	.3	PED 382 P.E. ....	.3
EED 320 Language Arts .....	.3	EED 410 Ed. of Excpt. Child .....	.2
	<u>16</u>	*EED414, or EED415, or EED416 .....	.3
			<u>19</u>
Senior Year			
EED 403 Foundations .....	.2	Electives .....	.3
EED 408 Student Teaching .....	.10	*PSY 304 Child Psychology .....	.3
Elective .....	.3	*PSY 309 Abnormal Psychology .....	.3
*SOC 110 Sociology .....	.2		
	<u>17</u>		<u>9</u>

*For those interested in Special Education Certification.

department of

SECONDARY EDUCATION

The Department of Secondary Education has an overall objective of providing the secondary schools with the best possible teachers to staff the classrooms. In accordance with this overall objective are the specific objectives of producing secondary education graduates who are:

- a. versed in one or more teaching fields. Their backgrounds will allow them to bring expertise in the discipline to the students.
- b. well aware of the fact that "teachers teach students, not subject matter." The professional preparation in secondary education is well attuned to the human aspects of the educational process.
- c. capable of functioning in a variety of teaching situations, from the traditional to the innovative. In the professional preparation, attention is given to the new and different approaches to secondary education along with an exposure to the time-tested methods of teaching.

Degree Requirements

1. The general education requirements must be completed satisfactorily.
2. The specific requirements in the major field are set by the departments. Secondary education majors are available in the following fields: Art, Biology, Business, Mathematics, Music, English, Chemistry, Foreign Language (French, German, Spanish), Physical Education, Social Science (History, Political Science, or Sociology), Speech and Theatre. Certification in a second teaching area is available in the majority of the above named fields. Degree requirements for the B.S. in Ed. fulfill certification requirements of the Missouri State Department of Education. Missouri Western State College is accredited by the National Council for Accreditation of Teacher Education (NCATE).
3. The professional sequence is as follows:

Course	Number	Semester Hrs.
Introduction to Secondary Education	SED202	2
Participation in Secondary Teaching I	SED203	1
Experience in Secondary Teaching II	SED303	3
Psychology in Secondary Teaching	SED304	4
Foundations in Secondary Education	SED404	3
Education of the Exceptional Student	SED407	2
Secondary Student Teaching III	SED409	9
		24

Secondary Student Teaching III (SED409) is to be taken during the student's senior year.

Foundations in Secondary Education (SED404) and Education of the Exceptional Student (SED407) 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 SED404, SED407, and SED409.

Petition for any additional course work must be submitted to the Chairman of Secondary Education in the semester prior to Secondary Student Teaching III. If granted, approval will be endorsed by the cooperating teacher to whom the student petitioner is to be assigned.

A student enrolled in Secondary Student Teaching III will assume the daily schedule of his cooperating teacher.

SECONDARY EDUCATION COURSES

*(Jointly offered by Elementary and Secondary Departments)

- SED202 Introduction to Secondary Education (2) i, ii**
A basic introduction to professional education. An on-campus exploratory course to aid the participant in deciding whether or not to become a teacher and provide for basic information and attitude development necessary to successful teaching. Taken the same semester as SED203.
- SED203 Participation in Secondary Teaching I (1) i, ii**
A laboratory course following SED202 in the same semester. During this off-campus experience, the participant will serve as a teacher assistant. This exploratory course will provide the participant with concrete exposure to teaching, to students, and to the school.
Prerequisite: SED202—Approved admission to the Teacher Education Program.
- SED303 Experience in Secondary Teaching II (3) i, ii**
A continuation of the off-campus experience in a cooperating school as a teacher associate. To be taken concurrently with SED304.
Prerequisite: PSY101, SED202, and SED203.
- SED304 Psychology in Secondary Teaching (2-4) i, ii**
A course designed to study psychological principles as applied to educational settings. To be taken concurrently with SED 303.
Prerequisite: Psychology 101 and SED. 202 and 203.
- *SED306 Current Trends in Education (3) i, ii**
A study of educational innovations, new media, current teaching problems and issues.
- *SED331 Audio-Visual Education (1-3) ii**
A component course designed to give students in-depth experiences in selected areas of Instructional Media/Audio-Visual Education: (a) Classroom Utilization and Selection of Instructional Media (b) Preparation of Instructional Materials (c) Equipment Operation. Students are required to provide their own supplies for preparing instructional materials. Components can be taken independently but it is recommended that all three components be taken during one semester.
- SED404 Foundations in Secondary Education (3) i, ii**
A study of problems in teaching, the organization and management of the school, the teacher and society, and the methodology of teaching and resources. To be taken concurrently with SED407 and SED409.
Prerequisite: SED303 and SED304.
- SED407 Education of the Exceptional Student (2) i, ii**
An introduction to the various areas of exceptionality and the methodology of working with these students. To be taken concurrently with SED404 and SED409.
Prerequisite: SED303 and SED304.
- SED409 Student Teaching III (Secondary) (9) i, ii**
Full-time off-campus teaching experiences working with a cooperating teacher. To be taken concurrently with SED404 and SED407.
Prerequisite: SED303, SED304, and special methods course in the major.
- SED422 Behavior Modification in the Classroom (2) i**
A course designed to explore means of modifying behavior in classroom settings through applied behavioral psychology.
Prerequisite: Approval of the instructor.
- SED430 The Middle School (2) ii**
A course designed to explore the philosophy, curriculum, and techniques applicable to middle schools and junior high schools. A. Concepts B. Core Curriculum C. Psychology of the Emerging Adolescent.
- SED450 Independent Study (credit hours open) i, ii, iii**
A research-oriented involvement intended to extend the competencies of the student in a particular area of education.
Prerequisite: Approval of the Chairman of Secondary Education.
- SED490 Applied Educational Practices (1-9)**
Workshops will be developed in selected areas in accordance with demonstrated interest and need.
- *EED311 Teaching Reading in the Secondary School (3) i**
(See Department of Elementary Education)

department of

HEALTH, PHYSICAL EDUCATION, AND RECREATION

Whether programming intramural competition, offering a planned sequence of exercises and sports activities to help students develop strong active bodies, or working with students majors in physical education or recreation, the Department of Health, Physical Education, and Recreation is interested in assisting all students to become healthy and productive members of society.

Every student at Missouri Western State College, as a part of the general education requirement, must take a course in "Concepts of Physical Activity" from which he or she becomes acquainted with basic knowledges, understandings and values as they affect the student physiologically, psychologically, sociologically, and emotionally. Each student, based on his self evaluation and guidance by the instructor during the concepts course, should take activity courses which will assist him in areas which he has found personal deficiency. These courses are of the physical conditioning, aquatics, sport, dance, combative, self-testing, gymnastics and adaptive types.

Physical Education 241 and/or 242 will substitute for the General Education activity requirements for both physical education and recreation majors.

Adaptive Activities may be repeated as often as needed for students with handicaps which restrict them from the regular activity program. Repeats in this course **will** satisfy General Education activity requirements.

Intercollegiate Sports I and II are offered for intercollegiate team members only. These courses may be repeated up to four times each. They count as electives but will **not** satisfy the General Education Physical Education activity requirements.

The department offers an all level (elementary-secondary) major in physical education for the degree Bachelor of Science in Education. It offers specialization areas in women's physical education, and men's physical education and coaching. Majors in this department must meet the requirements of general education, teacher education, and the physical education core as well as specialized requirements for men and women. Students who desire a major in this department encounter the various strategies of successful team coaching, various techniques of planning, teaching, and evaluating physical education programs as well as a scientific background of the discipline.

The department offers a major in recreation for the degree Bachelor of Science in Recreation. It offers a core of required courses as well as related course work in an area of specialization as determined by the individual student's interest and upon approval of his advisor. It also offers a minor in recreation.

Driver Education and Athletic Coaching Certification courses are also offered by this department for any education majors who desire teaching certification in these areas.

Major in Physical Education—Women (42 hours)

Courses in Physical Education must total 37 hours and 5 hours in Biology. The specific courses required are: Physical Education 148, 153, 191, 192, 201, 241, 242, 301, 302, 303, 304, 382, 392, 393, 465, and Biology 250. An additional 4 hours of electives in Physical Education must be taken from courses numbered 300 or above.

Major in Physical Education—Men (45 hours)

Courses in Physical Education must total 40 hours and 5 hours in Biology. The specific courses required are: Physical Education 148, 191, 192, 201, 241, 242, 301, 302, 303, 304, 310, 311, 312, 313, 314, 382, 385, 393, and Biology 250. An additional 4 hours of electives in Physical Education must be taken from courses numbered 300 or above.

Bachelor of Science in Recreation—Co-ed (63 hours)

Courses for this degree must total 36 hours in Recreation, 12 hours in Physical Education, and 15 hours in related course work as determined by the recreation advisor and the individual student's interest. The specific courses required are: Recreation 220, 243, 310, 320, 321, 322, 324, 325, 326, 327, 330, 420, and 430. Physical Education 146, 148, 201, 241, 242, and 395.

Recreation—Minor (21 hours)

Courses for this degree must total 17 hours in Recreation and 4 hours in Physical Education. The specific courses required are: Physical Education 201 and 395. Recreation 243, 310, 320, 323, 324, and 326.

Certification in Coaching—Men (19 hours)

Majors in any department who receive a degree in Education may also receive Athletic Coaching Certification for Men. Courses must total 14 hours in Physical Education and five hours in Biology. The following are the specific courses required: Physical Education 201, 304, 310, 311, 312, 313, 314, 373, 385 and Biology 250.

Certification in Coaching—Women (19 hours)

Majors in any department who receive a degree in Education may also receive Athletic Coaching Certification for Women. Courses must total 14 hours in Physical Education and five hours in Biology. The following are the specific courses required: Physical Education 201, 304, 310, 312, 313, 314, 315, 373, 385 and Biology 250.

Certification in Driver Education—(23 hours)

Majors in any department who receive a degree in education, may also receive certification in driver education. Courses must total 2 hours in Physical Education, 3 hours in Safety Education, 6 hours in Driver Education and 12 hours in Education. The following are the specific courses required: Physical Education 201, Safety Education 154, Driver Education 254, 354, Education 304 (I and II), and either Education 331 or Automotive Technology 100.

Special uniform fees are required for some courses in this department.

PHYSICAL EDUCATION THEORY

PED101 Concepts of Physical Activity (1) i, ii, iii
To acquaint students with basic knowledge, understandings and values of physical activity as it relates to optimal healthful living. (1 hour lecture and 1 hour lab.) Uniform required.

PED191 Foundations of Physical Education (2) i, ii
Meaning of physical education, opportunities in the field, and evaluation of aptitudes and abilities. Recommended for freshmen. (Two hours lecture.)

PED192 Personal and Community Health (2) i, ii
Personal health concerns, family and community health responsibilities. (Two hours lecture.)

PED201 First Aid (2) i, ii, iii
General emergency care, major disaster, civil defense; Red Cross standard, and instructor for standard certification included. (One hour lecture, two hours lab.)

PED241 Activities for Physical Education Majors I (3) i
To develop knowledge and basic skills in activities taught by professionals in physical education. For Physical Education majors only. (Ten hours lab.) Uniform required.

PED242 Activities for Physical Education Majors II (3) ii
Continuation of Activities for Physical Education Majors I. (Ten hours lab.) Uniform required.

PED300 Elementary School Health Education (2) i, ii, iii
Emphasis on content, methods, and materials at the elementary grade levels. Designed for the elementary school classroom teacher. (Two hours lecture.)

PED301 Health Teaching in the Schools (2) ii, iii
Emphasis on content, methods, and materials in health education at all levels (K through 12). (Two hours lecture.)
Prerequisite: P.E. 192.

PED302 Methods of Physical Education (2) i, iii
Methods and materials of teaching physical education in the secondary schools. (One hour lecture, two hours lab.)
Prerequisite: P.E. 101, 241, 242.

PED303 Kinesiology (3) ii, iii
The analysis of movement from a study of the anatomical structure and the mechanical principles of the human body. (Three hours lecture.)
Prerequisite: Biology 250.

PED304 Physiology of Exercise (2) i, iii
Basic physiology applied to physical education and the training and conditioning of athletes. (Two hours lecture.)
Prerequisite: Biology 250.

PED310 Principles of Coaching (2) i, ii
A course covering the various principles of coaching in today's public school system.
Prerequisite: Junior classification.

PED311 Coaching of Football (1) i
Theory and fundamentals of football dealing with team selection, organization, and control as well as fundamentals and strategies of the game.
Prerequisite: Sophomore classification.

PED312 Coaching of Basketball (1) i
Theory and fundamentals of basketball dealing with team selection, organization, and control as well as fundamentals and strategies of the game.
Prerequisite: Sophomore classification.

PED313 Coaching of Baseball and Softball (1) ii
Theory and fundamentals of baseball and softball dealing with team selection, organization, and control as well as fundamentals and strategies of the game.
Prerequisite: Sophomore classification.

- PED314 Coaching of Track and Field (1) ii**
Theory and fundamentals of track and field dealing with team selection, organization, and control as well as fundamentals and strategies of the sport.
Prerequisite: Sophomore classification.
- PED315 Coaching of Volleyball and Tennis (1) i**
Theory and fundamentals of volleyball and tennis dealing with team selection, organization, and control as well as fundamentals and strategies of the game.
Prerequisite: Sophomore classification.
- PED373 Organization and Administration of Physical Education and Athletics (2) i, ii**
Programming, staff selection, principles of administration, public relations, budget making, purchase and care of equipment, facilities and organization of physical education and athletic programs. (Two hours lecture.)
- PED381 Outdoor Education (2) ii**
Development of competencies in teaching in an outdoor learning environment. (Two hours lecture.)
- PED382 Elementary School Physical Education (3) i, ii, iii**
Rhythmic activities, movement education, fundamental skills, and sports and games for the elementary school physical education program. (Two hours lecture, two hours lab.)
- PED383 Adaptive Physical Education (2) ii**
Theory and methods of programming activities for handicapped students. Recognition and prevention of, and practical experience with structural deviations from normal body mechanics. (Two hours lecture.)
- PED385 Athletic Training (2) i, ii**
Prevention and care of common athletic injuries; protective equipment, training methods. (Two hours lecture.)
- PED391 Sports Officiating for Men (2) i**
Rules and techniques used in officiating athletic contests. Officiating in the intramural program is required. (One hour lecture and two hours lab.) Uniform fee required.
- PED392 Sports Officiating for Women (2) i**
Rules and techniques used in officiating athletic contests. Officiating in the intramural program is required. (One hour lecture, two hours lab.) Uniform fee required.
- PED393 Measurement in Physical Education (3) i, ii**
Methods in evaluation of the product and process; special emphasis on physical fitness, motor ability, posture, and specific sport skills. (Three hours lecture.)
- PED395 Intramural Management (2) i**
Organization and administration of intramural and extramural activities. Assistance in the intramural program is required. (1 hour lecture, 2 hours lab.)
- PED450 Independent Study in Physical Education (1-5 hours) i, ii, iii**
A research-oriented involvement intended to extend the competencies of the student in a particular area of education.
Prerequisite: Approval of the Department Chairman.
- PED465 Theory and Methods of Teaching Rhythms (2) ii**
Methods and procedures for instruction of folk, square, social, modern and tap dancing. (One hour lecture and two hours lab.)
Prerequisite: Physical Education 148 and 153.
- PED480 Practicum in Physical Education (2) i, ii, iii**
Individualized in-depth study of a subject in which the student is particularly interested.
Prerequisite: Senior classification.

DRIVER EDUCATION AND SAFETY THEORY

- PED154 Principles and Practices of Safety (3) i, ii**
Overview of the latest safety education programs. Emphasis on traffic, school, civil defense, shops and laboratories, home and recreational safety. (Three hours lecture.)
- PED254 Developmental Traffic Education (3) i, iii**
Introductory course to prepare teachers of driver education. Classroom instruction, laboratory experience, and driving skills are involved. (Three hours lecture, lab arranged.)
- PED354 Advanced Traffic Education (3) ii, iii**
Advanced course to prepare teachers of driver education. Actual experience in teaching beginning drivers in both the classroom and the car. (Two hours lecture, two hours lab arranged.)
Prerequisite: Driver Education 254.

RECREATION THEORY

- REC220 Introduction to Recreation (2) i, with demand**
Meaning of recreation, opportunities in the field, evaluation of aptitudes and abilities of those interested in entering the recreation field. (Two hours lecture.)
- REC243 Activities for Recreation Majors (3) i, with demand**
To develop knowledge and basic skills in outdoor recreation activities taught by professionals in recreation. (Ten hours lab.) Uniform required.
- REC310 Recreation; Field Experience I (2) i, ii**
To directly involve students of recreation in the operation and implementation of programs and services rendered by various types of agencies in the nearby community. (One hour lecture, four hour lab arranged.)
- REC320 Recreation Leadership (2) ii, with demand**
To acquaint the Recreation major with the role of the effective leader in recreation and to equip him with effective methods. (Two hours lecture.)
- REC321 Camps Leadership (2) iii, with demand**
Camping movement and objectives. Emphasis on campcraft skills and application. Includes a required campout. American Camping Association certification in campcraft is possible. (Two hours lecture, four day camp arranged.)
- REC322 Social Recreation (2) i, with demand**
The principles and techniques of administering and conducting social events. Emphasis on planning, discussion, demonstration, and participation. (Two hours lecture.)
- REC323 Foundations for Recreation Programs (2) i, with demand**
To relate the scope of settings and programming of recreation services with good planning, implementing, and evaluating practices. (Two hours lecture.)
- REC324 Organization and Administration of Recreation Programs (2) i, ii with demand**
Current principles and practices in planning and implementing community-wide recreation services—legal, finance, personnel, areas and facilities, programs, and resources. (Two hours lecture.)
- REC325 Community Centers and Playgrounds (2) iii, with demand**
Organizational and administrative principles, practices, and techniques for conducting recreation services in various types of facilities. (Two hours lecture.)

- REC326 Recreational Arts, Crafts, and Music (2) i, with demand**
A survey of various arts, crafts, and music involved in recreation settings. (One hour lecture, two hours lab.)
- REC327 Swimming Pool Management and Operation (2) ii, with demand**
To provide a basic foundation in pool operation, maintenance, and management. (One hour lecture, two hours lab.)
- REC330 Recreation; Field Experience II (3) iii**
To directly involve recreation majors in a summer camp or agency recreation accredited setting.
Prerequisite: Recreation 243, 310, 321, 326 and at least a Junior Classification.

- REC420 Seminar in Recreation (1) i, ii**
Designed to aid the student in specialized areas of concern with emphasis on personal needs and competencies.
- REC430 Recreation; Field Experience III (9) i, ii**
Practical experience leading to understanding and appreciation for the work and function of various agencies offering recreation services in the community. For Seniors only.

ELECTIVE PHYSICAL EDUCATION ACTIVITIES

No activity course can be repeated for credit. (Exceptions: 110, 158, 159.) Elective Physical Education activities will be offered during semesters when staff and facilities are available.

Classes may be offered for women, men, or co-educational.

All sport activities are designed for the development of techniques, knowledges, appreciation, and skills used lifetime for recreation and fitness.

*Indicates that a uniform or towel fee is required.

- *PED110 Adaptive Activities (1)**
A program of activities adapted to the needs of the handicapped and physically restricted student. By permission of the coordinator of adaptive activities only.
- *PED114 Beginning Tumbling and Trampoline (1)**
- *PED115 Beginning Apparatus Gymnastics (1)**
- PED116 Beginning Angling (1)**
- PED117 Beginning Riflery and Trap Shooting**
Students must purchase their own shells.
- PED118 Beginning Bowling (1)**
House fee required.
- PED119 Beginning Golf (1)**
Students must furnish four new golf balls.
- *PED120 Beginning Tennis (1)**
Students must furnish one new can of tennis balls.
- *PED121 Beginning Badminton (1)**
Students must furnish three new shuttlecocks.
- *PED123 Beginning Judo (1)**
Students must furnish Gi.
- *PED125 Beginning Handball (1)**
Students must furnish their own glove.
- *PED126 Beginning Squash (1)**
- PED127 Beginning Archery (1)**
Students must furnish matched set of six arrows.
- PED129 Beginning Mountaineering (1)**
- *PED130 Beginning Swimming (1)**
Basic skills in swimming. Swim suit required.
Prerequisite: Non-swimmers only.
- *PED132 Intermediate Swimming (1)**
Development of swimming strokes. Swim suit required.
Prerequisite: Ability to Swim.
- *PED133 Advanced Swimming and Diving (1)**
Advanced swimming skills and diving as well as competitive swimming. Swim suit required.
Prerequisite: Above average ability to swim.
- *PED134 Life Saving (1)**
Life saving techniques as prescribed by American Red Cross Senior Life Saving Certification for those who qualify. Swim suit required.
Prerequisite: Above average ability to swim.
- *PED135 Skin and Scuba Diving (1)**
Techniques and safety for skin and scuba diving. Swim suit required.
Prerequisite: Above average ability to swim.
- *PED136 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.
- *PED137 Water Safety Instructor (1)**
Water safety techniques as prescribed by the American Red Cross. W.S.I. Certification for those who qualify. Swim suit required.
Prerequisite: Current Senior Life Saving Certification.
- PED144 Beginning Recreational Games (1)**
Shuffleboard, table tennis, horseshoes, croquet, and others.
- PED146 Beginning Social Dance (1)**
- PED148 Beginning Folk and Square Dance (1)**
- *PED153 Beginning Modern Dance (1)**
Students must furnish leotard.
- *PED156 Beginning Tap Dance (1)**
Students must furnish tap shoes.
- PED158 Intercollegiate Sports I (1)**
College intercollegiate team members only. Will not satisfy general educational requirement in Physical Education. Must have permission of coach.
- PED159 Intercollegiate Sports II (1)**
College intercollegiate team members only. Will not satisfy general educational requirement in Physical Education. Must have permission of coach.
- *PED173 Beginning Softball (1)**
- *PED174 Beginning Field Hockey (1)**
- *PED175 Beginning Volleyball (1)**

- *PED176 Beginning Soccer and Speedball (1)
 *PED177 Beginning Basketball and Flag Football (1)
 *PED183 Beginning Wrestling (1)
 *PED184 Beginning Body Dynamics (1)
 *PED185 Beginning Weight Training and Conditioning (1)
 *PED186 Aerobics (1)
 PED187 Beginning Cycling (1)
 Students must furnish bicycle.
 *PED190 Special Activity (1)
 Special Activities to be offered when specific instructors
 and facilities are available.
 *PED215 Intermediate Apparatus Gymnastics (1)
 Prerequisite: PED 118 or permission of instructor.

- PED218 Intermediate Bowling (1)
 Prerequisite: PED118 or permission of instructor.
 PED219 Intermediate Golf (1)
 Students must furnish four new golf balls.
 Prerequisite: PED 119 or permission of instructor.
 *PED220 Intermediate Tennis (1)
 Students must furnish one new can of tennis balls.
 Prerequisite: PED 120 or permission of instructor.
 *PED223 Intermediate Judo (1)
 Student must furnish Gi.
 Prerequisite: PED123 or permission of instructor.
 *PED253 Intermediate Modern Dance (1)
 Students must furnish leotards.
 Prerequisite: PED153 or permission of instructor.

SAMPLE PROGRAM Physical Education Major Men

Freshman Year

Fall Semester	
ENG 104 English Composition	3
HIS 140, 150 History or	
PSC 101 Political Sci.	3
BIO 101 Biology	5
Math	3
PED 191 Found. of Phys. Ed.	2
PED 101 Conc. of Phys. Act	1
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	17

Spring Semester	
ENG 108 English Composition	3
Soc. Sci. Req. Elect.	3
Humanities	3
Physical Sci.	4-5
PED 192 Personal & Com. Hl.	2
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	15-16

Sophomore Year

SPH 104 Oral Communication	3
PSY 101 Gen. Psych	3
BIO 250 Anatomy & Physiology	5
PED 201 First Aid	2
PED 241 Act. for P.E. Maj. I	3
	<hr/>
	16

Soc. Sci. Gen. Elect.	3
Humanities	Total or 6
PED 382 Elem. School P.E.	3
PED 242 Act. for P.E. Maj. II	3
PED 148 Beg. Folk & Sq. Dance	1
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	16

Junior Year

SED 202 Intro. to Sec. Ed.	2
SED 203 Part. in Sec. Tchg. I	1
PED 310 Principles of Coach	2
PED 304 Physiology of Exercise	2
PED 311 Coach of Football	1
PED 312 Coach of Basketball	1
PED 302 Methods of Phys. Ed.	2
Free Electives	Total 6
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PED 313 Coach of Baseball and Softball	1
PED 314 Coach of Track and Field	1
PED 301 H. T. in the Schools	2
PED 303 Kinesiology	3
SED 303 Exp. in Tchg. II	3
SED 304 Psych. in Sec. Tchg.	4
Gen. Ed. Elective	3
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Senior Year

Phys. Ed. Elect.	4
PED 393 Measure in Phys. Ed	3
PED 385 Athletic Training	2
Free Elective	3
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SED 409 Sec. Student Tchg. III	9
SED 404 Foundations in Sec. Education	3
SED 407 Ed. of the Except. Student	2
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SAMPLE PROGRAM
Physical Education Major
Women

Fall Semester

ENG 104	English Composition	3
HIS 140,	150 History or	
PSC 101	Political Science	3
BIO 101	Biology	5
	Math	3
PED 191	Found. of Phys. Ed.	2
PED 101	Conc. of Phys. Act	1

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Sophomore Year

SPH 104	Oral Communications	3
PSY 101	Gen. Psych	3
BIO 250	Anatomy & Physiology	5
PED 201	First Aid	2
PED 241	Act. for P.E. Maj. I	3
PED 153	Beg. Modern Dance	1

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Junior Year

PED 392	Sports Offic. for Women	2
SED 202	Intro. to Sec. Ed	2
SED 203	Part. in Tchg. I	1
PED 304	Physiology of Exercise	2
PED 302	Methods of Phys. Ed	2
	Free Electives	Total 7

16

Senior Year

	Phys. Ed. Elect.	Total 4
PED 393	Measure in Phys. Ed	3
	Free Electives	Total 5

12

Spring Semester

ENG 108	English Composition	3
	Soc. Sci. Reg. Elect	3
	Humanities	3
	Physical Science	4-5
PED 192	Personal & Community Health	2

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	Soc. Sci. Gen. Elect	3
	Humanities	Total of 6
PED 382	Elem. School P.E.	3
PED 242	Act. for P.E. Maj. II.	3
PED 148	Beg. Folk & Sq. Dance	1

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SAMPLE PROGRAM
Bachelor of Science in Recreation
Co-Ed

Fall Semester		Freshman Year		Spring Semester	
HIS 40,	150 History or			Elective	3
PSC 101	Political Science	3	PSY 101	Psychology	3
MAT	Math	3	HUM	Humanities	3
PED 101	Conc. of Phys. Act	1	PED 146	Social Dance	1
HUM	Humanities	3	PED 148	Folk & Square Dance	1
REC 220	Intro. to Recreation	2	PED 148		14
		15			
		Sophomore Year			
PED	Intramural Management	2	SOC 110	General Sociology	3
REC 326	Rec. Arts, Crafts, and Music	2	PED 201	First Aid	2
PED 241	Activity for P.E. Majors I	3	PED 242	Activity for P.E. Majors II	3
REC 323	Found. of Rec. Prog.	2	HUM	Humanities	3
	Natural Science	4-5		Natural Science	4-5
		13-14			15-16
		Junior Year			
REC 243	Act. for Recreation Majors	3	ENG 104	Oral Communication	3
REC 310	Rec; Field Experience I	2	REC 320	Rec. Leadership	2
REC 322	Social Recreation	2	REC 327	Swim. Pool Mgt. and Oper.	2
	Related Elective	3		Free Elective	3
	Free Electives	(Total of 6)		Related Electives	(Total of 6)
		16			16
		Summer Session			
		(Required)			
		REC 330	Recreation; Field Experience II	3	
		REC 321	Camp Leadership	2	
		REC 325	Com. Centers and Playgrounds	2	
				7	
		Senior Year			
Related Electives	(Total of 6)	REC 430	Rec; Field Experience III	9	
Free Electives	(Total of 10)	REC 420	Seminar in Recreation	1	
		REC 324	Organization & Administration of Recreation Programs	2	
				12	



department of
PSYCHOLOGY

The ancient adage "Know Thy Self," along with the admonition "Know Thy Fellowman," succinctly state the philosophy of the Psychology Department. Our Orientation is humanistic. Our objective is to provide a deeper and broader understanding of human nature.

The purpose of the psychology curriculum is to give the student a better understanding of himself and others, and to better prepare him to meet the complexities of life.

Either the Bachelor of Arts or the Bachelor of Science degrees can be achieved with a major in psychology. Either degree signifies that the student is prepared to pursue graduate study in psychology at the Master's or Doctorate level.

The department also serves other disciplines by offering courses which meet their needs.

BACHELOR OF ARTS OR BACHELOR OF SCIENCE

Major in Psychology

A minimum of 36 credit hours in Psychology is required. Required courses totaling 21 credit hours are: Psychology 101, Psychology 200, Psychology 301, Psychology 330, Psychology 401, Psychology 410, Psychology 490. The additional 15 credit hours to meet the 36 credit hour requirement must consist of electives in Psychology.

Candidates for either degree must also comply with the appropriate Baccalaureate degree program and meet all other requirements as outlined elsewhere in this catalog. (See 30 hours upper division requirement and general education requirements.)

Minor or Emphasis in Psychology

A minimum of 22 credit hours in Psychology is required. Required courses totaling 16 credit hours are: Psychology 101, Psychology 200, Psychology 301, Psychology 330, Psychology 410. The additional 6 credit hours to meet the 22 credit hour requirement must consist of electives in Psychology.

PSYCHOLOGY

- PSY101 General Psychology (3) i, ii, iii**
A general information course about psychology in everyday life, designed to correct misconceptions and to give the student a better understanding of himself and others.
- PSY200 Intermediate Psychology (3) i, ii, iii**
An introduction to scientific psychology with emphasis on methodology.
Prerequisite: Psychology 101.
- PSY201 Applied Psychology (3) i (odd year)**
Considers the applications of psychology in everyday life.
Prerequisites: Psychology 101, 200.
- PSY210 Mental Hygiene (3) iii (i even years)**
Considers principles and techniques for maintaining good mental health. The approach is practical rather than descriptive.
Prerequisite: Psychology 101.
- PSY300 Intermediate Statistics for the Behavioral Sciences (3) i (even year or upon demand)**
Two hours lecture and 2 hours lab. An application of basic statistical procedures to behavioral research. Some statistical procedures not taught in Math 201, and the use of computers in data analysis are also considered.
Prerequisites: Psychology 200, Math 201.
- PSY301 Experimental Psychology (4) i, ii**
Three hours lecture and two hours lab. Provides training in the techniques and methods of scientific psychology. Emphasis is on the construction of hypotheses, experimental design, data interpretation and style of reporting research.
Prerequisites: Psychology 101, 200.
- PSY304 Child Psychology (3) i, iii**
The psychological growth of the child from conception to puberty, emphasizing the origins and principles of normal personality development.
Prerequisites: Psychology 101, 200.
- PSY309 Abnormal Psychology (3) i, ii, iii**
A descriptive and explanatory consideration of abnormal behavior, with a survey of past and present theories, classifications, and therapies.
Prerequisite: Psychology 101.
- PSY310 Industrial Psychology (3) ii, iii**
Psychology for management and employees in business and industry, with emphasis on psychological principles helpful to people working with people or serving the public.
Prerequisite: Psychology 101.
- PSY312 Psychology of the Exceptional Child (3) ii, iii**
Considers problems and needs of children who noticeably deviate from accepted physical, psychological, and social norms.
Prerequisites: Psychology 101, 200, 304.
- PSY320 Adolescent Psychology (3) ii even years**
A descriptive and explanatory consideration of adolescence, with emphasis on motivation and frustration.
Prerequisites: Psychology 101, 200, 304.
- PSY 325 Psychology of Personality (3) i odd years**
Dynamics of personality development and human behavior, with emphasis on theories of personality.
Prerequisite: Psychology 101, 200 and 304.
- PSY330 Systematic Psychology (3) i, iii (ii even years)**
Consideration of the major ways of defining, organizing, and explaining psychological phenomena.
Prerequisites: Psychology 101, 200.
- PSY335 Learning Theories (3) iii (i even years)**
A survey of the major theories of learning in contemporary psychology, with a brief historical introduction.
Prerequisites: Psychology 101, 200.
- PSY345 Comparative Psychology (3) ii odd years**
Introduction to the comparative method in exploring and classifying psychological behavior in the Animal Kingdom.
Prerequisites: Psychology 101, 200, 330.
- PSY350 Physiological Psychology (3) i even years**
Investigates the physiological correlates of psychological behavior in man.
Prerequisites: Psychology 101, 200, 330.
- PSY401 Social Psychology (3) ii, iii (i odd years)**
Considers the individual in relation to his society. The course covers theoretical foundations, socialization, social cognition, group dynamics, and leadership.
Prerequisites: Psychology 101, 200.
- PSY405 Psychology of Communication (3) i odd years**
Analyzes the elements of interpersonal communication with emphasis on techniques of communicating thoughts and ideas, listening techniques, understanding meaning, the utilization of feedback, and reasons for failures to communicate. Designed to improve the student's interpersonal relationships.
Prerequisites: Psychology 101, 200.
- PSY410 Psychological Measurements and Appraisals (3) ii odd years**
Considers contemporary methods of inventorying individual differences, and the theoretical basis for criteria in constructing, standardizing, and using test instruments, with a brief historical introduction and critique of the misuse of psychological tests.
Prerequisites: Psychology 101, 200.
- PSY420 Practicum in Psychology (4) i**
To provide senior students in psychology the experience of applying their knowledge to an actual work situation in the field. An additional 4 credit hours may be earned by taking PSY421.
Prerequisite: Senior status in Psychology, and consent of department.
- PSY421 Practicum in Psychology (4) ii**
To provide senior students in psychology the experience of applying their knowledge to an actual work situation in the field. An additional 4 credit hours may be earned by taking PSY420.
Prerequisite: same as PSY420.
- PSY450 Independent Study (credit hours open)**
By arrangement. Open only to seniors as a means of taking a required course which is not otherwise available during their senior year.
Requires consent of the Department Chairman.
- PSY480 Independent Research (1-5) ii**
Research of selected topics or problems on an individual conference basis.
Prerequisite: Consent of instructor.
- PSY490 Senior Seminar (2) ii**
A course designed for seniors majoring in psychology. Emphasis will be on discussion of current areas of interest in psychology. In addition present vocational and educational opportunities will be brought to the attention of students.
Prerequisite: Consent of instructor.

SAMPLE PROGRAM
For B.A. degree with a Major in Psychology
For B.S. degree substitute electives for 4 foreign languages courses
Freshman Year

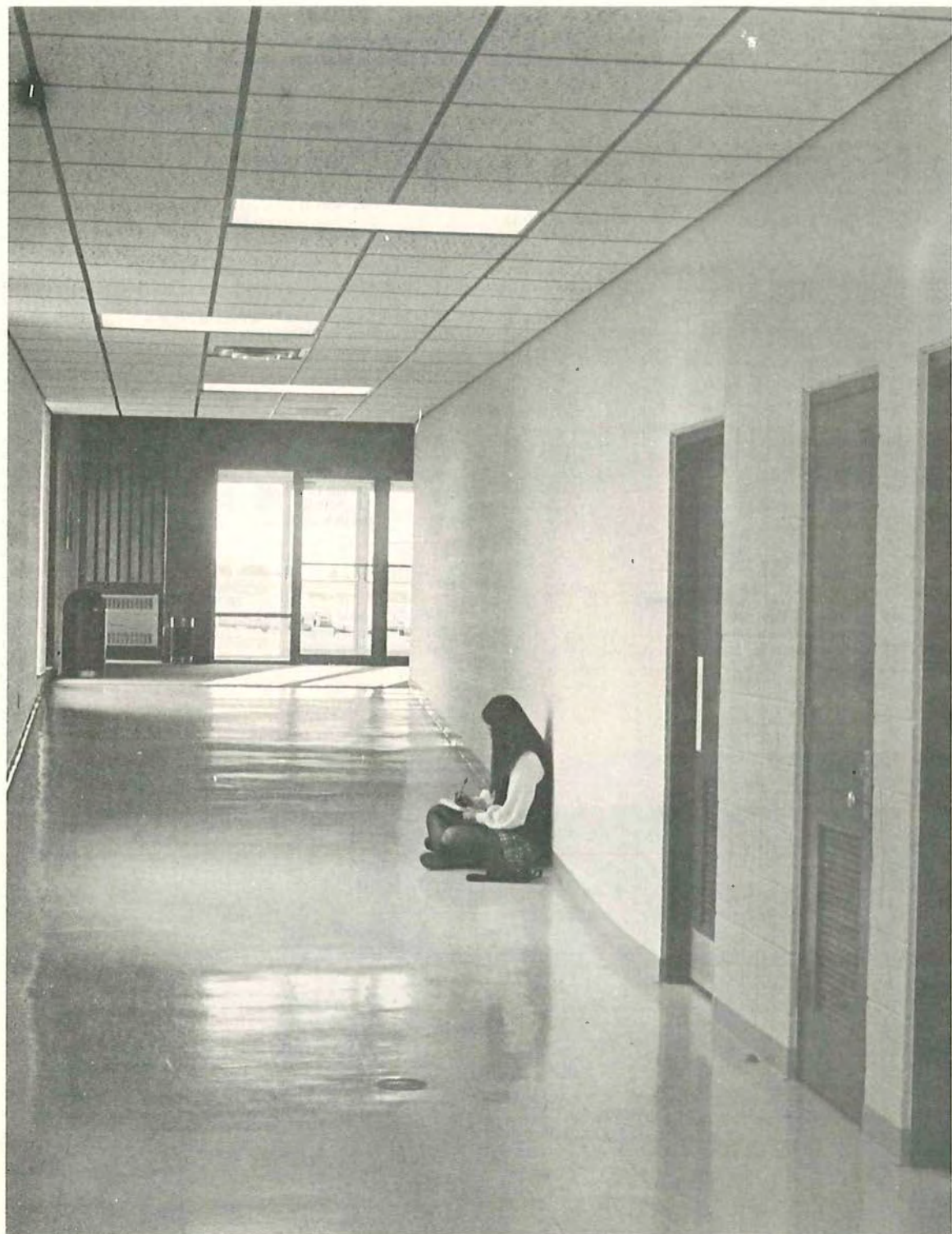
Fall Semester		Spring Semester	
PSY 101	General Psychology	PSY 200	Intermediate Psychology
ENG 104	English	ENG 108	English
MAT 101	Fund. Concepts of Math	MAT 103	Intermediate Algebra
BIO 101	Principles of Biology	SOC 101	General Sociology
PED 101	Concepts of P.E.	HIS 140	American History
			P.E. Activity
	15		16

Fall Semester		Spring Semester	
PSY 210	Mental Hygiene	PSY 309	Abnormal Psychology
MAT 201	Elementary Statistics	SOC 120	Cultural Anthropology
SPH 104	Oral Communications	PHY 101	Concepts and Principles of Physics
GEO 100	World Geography	HUM210	Intro. to Philosophy
	Foreign Language		Foreign Language
	P.E. Activity		
	16		16

Fall Semester		Spring Semester	
PSY 301	Experimental Psych	PSY 330	Systematic Psychology
PSY 325	Psych of Personality	ENG 220	Classical Backgrounds for Literature
ENG 210	Approaches to Lit.	HUM205	Humanities II
HUM203	Humanities I		Foreign Language
	Foreign Language		P.E. Activity
			elective
	16		16

Fall Semester		Spring Semester	
PSY 300	Intermediate Statistics for the Behavioral Sciences	PSY 401	Social Psychology
PSY 335	Learning Theories	PSY 410	Psychological Measurements and Appraisals
PSY 350	Physiological Psych	PSY 490	Senior Seminar
	electives, 300 or 400 level		electives, 300 or 400 level
	15		14







The Division of **LIBERAL ARTS and SCIENCES**

THE DEPARTMENTS OF:

Biology
Chemistry
English and Modern Languages
Fine Arts
Mathematical Sciences
Social Science
Speech/Theatre/Humanities

The Division of Liberal Arts and Sciences is the essential core of the College. While other Divisions largely directed their work toward specific groups within the student body, the Division of Liberal Arts and Sciences is concerned with all students. In contrast with those Divisions that are essentially vocational, technical, or professional in their orientation, Liberal Arts and Sciences is primarily concerned with knowledge as a liberating force in the lives of all human beings. Within its disciplines, knowledge is investigated as the sum of the human endeavor to understand the nature of man and the universe; as an essential agent in the attempt to develop both man and the universe to their full potential; and as the goal in a never-ending effort to extend its limits.

To make its work more effective, the Division must also be concerned with the application of its appropriate bodies of knowledge to specific pursuits, and to the development of competencies in those students who wish to make arts or sciences the basis of their life work.

Since Missouri Western State is an open-door college with especially close ties to the community, certain obligations must be assumed by the Division. It must both demand the right and demonstrate the willingness to provide appropriate opportunities for growth to those who are not only able to benefit from its offerings but also willing to accept the self-discipline required for progress; it must act as a catalyst in the cultural life of the community. In all its activities, the Division must strive, and lead others to strive, for academic excellence.

department of

BIOLOGY

Biology students study all forms of life at the molecular as well as the organismal and population levels of complexity. These students work in new laboratories using modern tools and techniques, and in the department's wilderness area studying life in its natural environment. Independent study and special problems are offered for advanced students.

The biology curriculum consists of core courses which are taken by all biology majors regardless of specialization, followed by biology electives in specific areas. These core courses are designed to give students a rigorous and sophisticated introduction to the principles of all important areas of modern biology.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in Natural Science (Biology Emphasis)

Courses in Biology must total 27 credit hours. The following specific courses are required: Biology 111, 112, 310, 312, 412, plus 12 additional credit hours selected from Biology courses numbered 300 or higher; Chemistry 111, 120, 310, 311, 312, 313, 370; Physics 101, or 110, Mathematics 107, 201.

Major in Biology

Courses in Biology must total 36 credit hours. The following specific courses are required: Biology 111, 112, 309, 310, 311, 312, 411, 412, plus 10 additional credit hours selected from Biology courses numbered 300 or higher, of which a minimum of 3 credit hours must be in plant science; Chemistry 111, 120, 310, 311, 370; Mathematics 105 and 201; Physics 110.

BACHELOR OF SCIENCE

Major in Biology

Courses in Biology must total 40 credit hours. The following specific courses are required: Biology 111, 112, 309, 310, 311, 312, 411, 412, plus 14 additional credit hours selected from Biology courses numbered 300 or higher, of which a minimum of 3 credit hours must be in plant science; Chemistry 111, 120, 310, 311, 370; Mathematics 105 and 201; Physics 101 or 110.

BACHELOR OF SCIENCE IN EDUCATION

Major in Biology

Courses in Biology must total 36 credit hours. The following specific courses are required: Biology 111, 112, 309, 310, 311, 312, 380, 411, 412, plus 7 additional credit hours selected from Biology courses numbered 300 or higher, of which a minimum of 3 credit hours must be in plant science; Chemistry 111, 120, 310, 311, 370; Mathematics 105 and 201; Physics 101 or 110.

Minor in Biology

A minor in Biology consists of 20 credit hours in Biology, including Biology 111 and 112 plus electives selected from Biology courses numbered 300 or higher.

BIOLOGY

- BIO101 Principles of Biology (5) i, ii, iii**
Principles of living phenomena; meets the general education biological science requirement. Will substitute for Biology 111 for a student who earns a grade of "C" or better and subsequently majors in biology. 4 hours lecture, 2 hours lab.
- BIO111 General Biology (3) i**
Phenomena associated with living organisms; primarily for biology majors. 2 hours lectures, 3 hours lab.
- BIO112 General Biology (3) ii**
Continuation of Biology III; 2 hours lecture, 3 hours lab.
- BIO250 Anatomy and Physiology (5) i, ii, iii**
Concepts of human function and structure and relationship of these concepts to cells, tissues, organs, and systems. 4 hrs. lecture. 3 hrs. lab.
Credit for this course is not applicable toward a major in biology.
Prerequisite: Biology 101 or consent of instructor. (Student must furnish required dissecting kit and probe.)
- BIO251 Medical & Public Health Microbiology (4) ii**
Introductory concepts of microorganisms; their characteristics, relationships to disease, means of transmission, and methods of control. 3 hours lecture, 3 hours lab.
Credit for this course is not applicable toward a major in biology.
- BIO252 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.
- BIO260 Human Sexuality (3) i, ii, iii**
Biological, sociological, and psychological aspects of human sexuality.
- BIO305 Human Ecology (3) i, ii, iii**
Man and his environment: ecological principles, population, pollution, resources.
Prerequisite: Biology 101.
- BIO309 Environmental Biology (4) i**
Basic concepts and field techniques used in studying the relationships of organisms to their environment. 3 hours lecture, 3 hours lab.
Prerequisite: Biology 111 or 112 or consent of instructor.
- BIO310 Cellular Biology (4) i**
Molecular cell structure with relationship to such cell functions as transport, chemical transformations, growth, and reproduction. 3 hours lecture, 2 hours lab.
Prerequisite: Biology 111 and Chemistry 120, or consent of instructor.
- BIO311 Animal Physiology (4) ii**
The physiological systems, their functions and inter-actions in human physiology; comparisons within the animal kingdom. 3 hrs. lecture, 2 hrs. lab.
Prerequisite: Biology 111 or consent of instructor.
- BIO312 Genetic Biology (4) ii**
Hereditary and adaptive principles as applied to plants and animals. 3 hours lecture, 3 hours lab.
Prerequisite: Biology 310 and Mathematics 201, or consent of instructor.
- BIO350 Plant Systematics (3) i**
Identification, characteristics and importance of seed plants. Study of classification, techniques and literature of taxonomy. A plant collection and field trips will be required. 2 hours lecture, 2 hours lab.
Prerequisite: Biology 111 or 112.
- BIO380 Science Teaching: Materials and Methods (3) ii**
Curricula, evaluation, laboratory equipment, supplies and techniques.
Prerequisite: 20 hours of science, or consent of instructor.
- BIO399 Microbiology (5) i**
Identification, characteristics and importance of common forms of microorganisms; their application to the needs of man, infectious diseases and immunity, microbiology of air, water, foods, and their uses in industrial and scientific process. 3 hours lecture, 4 hours lab.
Prerequisite: Biology 111 or 112 and Biology 310 or consent of instructor.
- BIO400 Microbiology of Human Disease (5) ii (odd numbered years)**
Pathogenic microorganisms, medically important parasites of man; immunological principles, collection, isolation and identification techniques.
Prerequisite: BIO 399
- BIO405 Plant Morphology: Nonvascular Plants (3) i (odd numbered years)**
Structure, development, and relationships of the algae, fungi and the bryophytes. 2 hours lecture, 2 hours lab.
Prerequisite: Biology 111 or 112.
- BIO406 Plant Morphology: Vascular Plants (3) ii (even numbered years)**
Structure, development and relationships of the vascular plants. 2 hours lecture, 2 hours lab.
Prerequisite: Biology 111 or 112.
- BIO411 Developmental Biology (4) ii**
Plant and animal development; formation of organs and organ systems. 3 hours lecture, 3 hours lab.
Prerequisite: Biology 111 or 112.
- BIO412 Seminar in Biology (1) i, ii**
Individual reports and group discussion on problems and current research in biology. May be repeated for a maximum total of 2 credit hours. Biology majors are expected to attend during the Junior and Senior years whether or not they are enrolled for credit.
Prerequisite: Consent of instructor.
- BIO415 Invertebrate Zoology (3) i (even numbered years)**
Comparative anatomy and biological principles of the invertebrates. 2 hours lecture, 2 hours lab.
Prerequisite: Biology 111 or 112.
- BIO416 Vertebrate Zoology (3) ii (odd numbered years)**
Principles and evolution of vertebrate structure and function. 2 hours lecture, 2 hours lab.
Prerequisite: Biology 111 or 112.
- BIO420 Biology Practicum (1) i, ii, iii**
Supervised experience in the development and use of laboratory materials for biology classes. Student will serve as a resource person in beginning biology laboratories.
Prerequisite: Consent of instructor.
- BIO450 Independent Study in Biology (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

BIO470 Literature of Biology (2) ii
 Research in major journals and other literature in the area of biology. For biology majors.
Prerequisite: Consent of instructor.

BIO495 Special Problems in Biology (1-5) i, ii, iii
 Research problems in biology.
Prerequisite: Consent of instructor.

SAMPLE PROGRAM B.S. Biology

Freshman Year

Fall Semester

BIO 111	General Biology	3
ENG 104	English Composition	3
MAT 105	College Algebra	3
CHE 111	General Chemistry I	5
	P.E.	1
		15

Spring semester

BIO 112	General Biology	3
ENG 108	English Composition	3
PHY 101 or 110	Physics	5
CHE 120	General Chemistry II	5
	P.E.	1
		17

Sophomore Year

BIO 211	Environmental Biology	3
CHE 310	Organic Chemistry I	3
CHE 311	Organic Chem. Lab. I	2
	American History or	
	American Government	3
	Humanities elective	3
	P.E.	1
		15

BIO 370	Biochemistry	4
	Soc. Science elective	3
	Humanities elective	3
	P.E.	1
	Electives	4
		15

4

Junior Year

CHE 310	Cellular Biology	4
BIO 350	Plant Systematics or	
	Plant Morphology	3
MAT 201	Elementary Statistics	3
	Soc. Science elective	3
	Humanities elective	3
		16

BIO 311	Animal Physiology	4
CHE 370	Biochemistry	4
BIO 312	Genetic Biology	4
	Humanities elective	3
		15

Senior Year

	Biology electives	9
	Electives	3
	Social Science elective	3
		15

BIO 411	Developmental Biology	4
	Biology elective	3
BIO 412	Seminar in Biology	1
	Electives	8
		16



**SAMPLE PROGRAM
B.A. Natural Science
(Biology Emphasis)**

Freshman Year					
Fall Semester		Spring Semester			
BIO 111	General Biology	.3	BIO 112	General Biology	.3
ENG 104	English Composition	.3	ENG 108	English Composition	.3
102	Foreign language	.3	112	Foreign language	.3
CHE 111	General Chemistry	.5	CHE 120	General Chemistry	.5
	P.E.	.1		P.E.	.1
		15			15
Sophomore Year					
MAT 105	College Algebra	.3	MAT 106	Trigonometry	.3
CHE 310-311	Organic Chemistry	.5	CHE 312-313	Organic Chemistry	.5
202	Foreign language	.3	212	Foreign language	.3
	Communications elective	.3		Social Science elective	.3
	P.E.	.1		P.E.	.1
		15			15
Junior Year					
BIO 310	Cellular Biology	.3	BIO 312	Genetic Biology	.4
MAT 201	Elementary Statistics	.3	CHE 370	Biochemistry	.4
PHY 110	Physics	.5	PHY 111	Physics	.3
BIO 470	Literature of Biology	.2		Soc. Science elective	.3
	Soc. Science elective	.3		Humanities elective	.3
		16			17
Senior Year					
MAT 107	Calculus	.5	BIO 412	Seminar in Biology	.1
	Humanities elective	.3		Humanities elective	.3
	Biology electives	.6		Biology electives	.8
BIO 350	Plant Systematics of Plant Morphology	.3		Electives	.3
		17			15

**SAMPLE PROGRAM
B.S. in Education
Major in Biology**

Fall Semester			Freshman Year		Spring Semester	
BIO 111	General Biology	.3	BIO 112	General Biology	.3	
ENG 104	English Composition	.3	ENG 108	English Composition	.3	
MAT 105	College Algebra	.3	PHY 101	or 110 Physics	.5	
CHE 111	Chemistry	.5	CHE 120	General Chemistry II	.5	
	P.E.	.1		P.E.	.1	
		15				17
			Sophomore Year			
BIO 211	Environmental Biology	.3	CHE 370	Biochemistry	.4	
CHE 310	Organic Chemistry I	.3	SED 202	Intro. to Sec. Ed.	.2	
CHE 311	Organic Chem. Lab. I	.2	SED 203	Part. in Sec. Teach. I	.1	
MAT 201	Statistics	.3		Humanities elective	.3	
	Social Science elective	.3		Social Science elective	.3	
	P.E.	.1		P.E.	.1	
		15				14
			Junior Year			
SED 303	Exp. in Sec. Teaching II	.3	BIO 380	Materials & Meth. of Teach	.3	
SED 304	Psy. in Sec. Teaching	.4	BIO 311	Animal Physiology	.4	
BIO 310	Cellular Biology	.4	BIO 312	Genetic Biology	.4	
	Communications elective	.3	BIO 411	Developmental Biology	.4	
	Social Science elective	.3	BIO 412	Seminar in Biology	.1	
		17				16
			Senior Year			
BIO 350	Plant Systematics or		SED 404	Foundations in Sec. Ed.	.3	
BIO 405	Plant Morphology	.3	SED 407	Ed. of the Ex. Student	.2	
	Elective in Education	.2	SED 409	Sec. Stu. Teaching III	.9	
	Humanities electives	.6				14
	Biology electives	.5				
		16				

SAMPLE PROGRAM

B. A. in Biology

Freshman Year

Fall Semester		Spring Semester	
BIO 111	General Biology	BIO 112	General Biology
ENG 104	English Composition	ENG 100	English Composition
MAT 105	College Algebra	CHE 120	General Chemistry II
CHE 111	General Chemistry I		Social Science elective
	P.E.		P.E.
	15		15
Sophomore Year			
BIO 211	Environmental Biology	BIO 112	Foreign Language
	102 Foreign Language	PHY 101	or 110 Physics
MAT 201	Statistics		Social Science elective
CHE 310	Organic Chemistry I		Electives
CHE 311	Organic Chemistry Lab I		P.E.
	P.E.		
	15		16
Junior Year			
BIO 310	Cellular Biology	BIO 312	Genetic Biology
CHE 301	Organic Chemistry	BIO 311	Animal Physiology
BIO 350	Plant Systematics or	BIO 211	Foreign Language
BIO 405	Plant Morphology		Humanities elective
202	Foreign Language		Elective
	Humanities elective		
	17		16
Senior Year			
CHE 370	Biochemistry	BIO 411	Developmental Biology
	Biology elective	BIO 412	Seminar in Biology
	Social Science electives		Electives
	Communications elective		
	16		15



department of

CHEMISTRY

The Department of Chemistry deals with a core of knowledge that is essential to much of the scientific experimentation that influences our daily lives in the modern world. From atomic theories to basic chemical structures, the prospective chemist studies that material which forms a basis for important work in engineering, pharmacy, medicine, medical technology, dentistry, and research chemistry.

The Department also assists in the preparation of prospective science teachers. These students, as well as those who study chemistry as a part of their basic education, work in new facilities fully equipped for investigating contemporary chemistry topics in both classroom and laboratory.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in Chemistry

Courses in Chemistry must total 35 credit hours. The following specific courses are required: Chemistry 111, 120, 310, 311, 312, 313, 321, 431, 432, 495, plus an additional 5 credit hours from Chemistry courses numbered 300 or higher; Mathematics 107, 108, 209; Physics 110; German 102, 112, 202, 212.

Major in Natural Science (Chemistry Emphasis)

Courses in Chemistry must total 27 credit hours. The following specific courses are required: Chemistry 111, 120, 310, 311, 370, plus an additional 9 credit hours from Chemistry courses numbered 300 or higher; Biology 111, 112, 310, 312, plus an additional 4 credit hours selected from Biology courses numbered 300 or higher; Mathematics 107; Physics 110.

BACHELOR OF SCIENCE

Major in Chemistry

Courses in Chemistry must total 42 credit hours. The following specific courses are required: Chemistry 111, 120, 310, 311, 312, 313, 321, 326, 341, 431, 432, 433, 434, 495; Mathematics 107, 108, 209; Physics 210, 211, 212; German 102, 112.

Major in Medical Technology

Courses in the Natural Sciences and Mathematics must total 55 credit hours; courses in Medical Technology must total 31 credit hours. The following specific courses are required: Chemistry 111, 120, 310, 311, 321, 326, 370; Biology 111, 311, 399, 400, plus 4 credit hours selected from Biology courses numbered 300 or higher; Mathematics 105; Physics 101; Medical Technology 105, 451, 452, 453.

BACHELOR OF SCIENCE IN EDUCATION

Major in Chemistry

Courses in Chemistry must total 32 credit hours. The following specific courses are required: Chemistry 111, 120, 310, 311, 321, 431, 432, 465, 495, plus an additional 5 credit hours from Chemistry courses 300 or higher; Mathematics 107, 108, 209; Physics 110, 111.

Minor in Chemistry

A minor in Chemistry consists of 18 credit hours in Chemistry, including CHE111 and CHE120 plus elective courses in chemistry numbered 300 or higher.

CHEMISTRY

(Student must furnish required laboratory apron and safety glasses in laboratory courses. A \$2.00 refundable laboratory deposit is also required.)

- CHE101 Introductory Chemistry (5) i, ii, iii**
Chemistry for Arts and Science students; meets the minimum physical science requirement. Credit reduced to two hours if student takes Chemistry 111 for credit. 3 hrs. lecture, 1 hr. discussion, 2 hrs. lab.
- CHE104 Fundamentals of Chemistry (4) i**
A survey of chemistry with special emphasis in solution and biochemistry; for students majoring in science-related fields such as nursing, agriculture. 3 hrs. lecture, 2 hrs. lab.
- CHE111 General Chemistry I (5) i, ii**
Basic concepts of chemistry; atomic theory and periodic system, chemical calculations, oxidation-reduction, states of matter, theory of chemical bonding, atomic structures. 3 hrs. lecture, 1 hr. discussion, 3 hrs. lab.
Prerequisite: 2 units algebra. High school chemistry is also recommended.
- CHE120 General Chemistry II (5) i, ii**
Continuation of Chemistry 111; thermochemistry, equilibrium, electro-chemistry, radio-chemistry, coordination chemistry and a survey of the main group elements and their compounds. Laboratory includes the topics above along with the separation and identification of some of the more common anions and cations by qualitative analysis. 3 hours lecture, 6 hours laboratory.
Prerequisite: Chemistry 111 with a grade of C or better.
- CHE310 Organic Chemistry I (3) i**
Methods of synthesis of organic compounds, reaction paths, chemical bonding and geometry of organic molecules; aliphatic and aromatic compounds studied concurrently. If Chemistry 215 or equivalent has been completed previously, course carries only 1 hour of credit. 3 hrs. lecture.
Prerequisite: Chemistry 120 with a grade of C or better.
- CHE 311 Organic Chemistry Laboratory I (2) i**
Laboratory course to accompany Chemistry 310. 6 hrs. lab.
Prerequisite: Chemistry 310 concurrently.
- CHE312 Organic Chemistry II (3) ii**
Continuation of Chemistry 310. 3 hrs. lecture.
Prerequisite: Chemistry 310 with a grade of C or better.
- CHE313 Organic Chemistry Laboratory II (2) ii**
Laboratory course to accompany Chemistry 312. 6 hrs. lab.
Prerequisite: Chemistry 312 concurrently.
- CHE321 Quantitative Analysis (4) i**
Analytical chemistry; gravimetric, volumetric, colorimetric, and electro-analytical determinations. The instrumental approach to analysis is emphasized. 2 hrs. lecture, 6 hrs. lab.
Prerequisite: Chemistry 120 with a grade of C or better.
- CHE326 Instrumental Analysis (4) ii**
Theories and methods in modern instrumental analysis. 2 hrs. lecture, 6 hrs. lab.
Prerequisite: Chemistry 321, with a grade of C or better.
- CHE341 Advanced Inorganic Chemistry (3) i (even numbered years)**
Modern concepts of inorganic chemistry, encompassing chemical bonding theories, acid-base theories, mechanisms of inorganic chemistry, symmetry in molecules, inorganic thermodynamics and atomic and molecular structure. 3 hrs. lecture.
Prerequisite: Chemistry 111, 120, with a grade of C or better.
- CHE370 Biochemistry (4) ii**
Chemistry of biological compounds, metabolism, and biochemical genetics. 3 hours lecture, 3 hours lab.
Prerequisite: Chemistry 111, and 310 with a grade of C or better.
- CHE431 Physical Chemistry I (3) i**
Thermodynamics, properties of solutions, phase equilibria, chemical equilibrium and conductivity. 3 hours lecture.
Prerequisites: Chemistry 311, 321 with a grade of C or better; Physics 201; Math 209 (Math 209 may be taken concurrently).
- CHE432 Physical Chemistry Laboratory I (2) i**
Laboratory course to accompany Chemistry 431. 6 hours lab.
Prerequisite: Concurrent enrollment in Chemistry 431.
- CHE433 Physical Chemistry II (3) ii**
A continuation of Chemistry 431: Electrochemistry, chemical kinetics, absorption and emission spectroscopy and introduction to quantum chemistry. 3 hours lecture.
Prerequisite: Chemistry 431 with a grade of C or better.
- CHE434 Physical Chemistry Laboratory II (2) ii**
Laboratory course to accompany Chemistry 433. 6 hours lab.
Prerequisite: Concurrent enrollment in Chemistry 433.
- CHE450 Independent Study in Chemistry (1-5) i, ii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- CHE465 Chemistry Teaching: Methods and Techniques (2) ii**
Modern techniques in teaching high school chemistry: use of audio-visual equipment, project approach, lesson planning and difficulties in chemistry instruction at the secondary level.
Prerequisite: Senior standing.
- CHE490 Research in Chemistry (0-3) i, ii**
Original research on problems in various fields of chemistry. Hours arranged.
Prerequisite: Consent of Department Chairman.
- CHE495 Seminar in Chemistry (1) i**
Individual reports and group discussion on modern topics in chemistry.
Prerequisite: Senior standing or consent of instructor.

MEDICAL TECHNOLOGY

- MTE105 Introduction to Health Science (1) i (odd numbered years)**
A survey of the various health fields; job descriptions, employment opportunities, educational requirements, personal qualifications. 1 hour lecture.

Full internship program, including Medical Technology 451, 452, and 453, is of twelve months duration in a hospital affiliated with Missouri Western State College and approved by the American Society of Clinical Pathologists.

- MTE451 Medical Technology Internship (12) i,**
 Practical training and theoretical instruction in all phases of medical laboratory work; microbiology, basal metabolism, blood banking, chemistry, cytology, hematology, histology, serology, and urinalysis.
Prerequisite: Completion of 94 hours course work as required for award of B.S. degree in Medical Technology.

- MTE452 Medical Technology Internship (12) ii**
 Continuation of Course 451.

- MTE453 Medical Technology Internship (6) iii**
 Continuation of Course 452.

SAMPLE PROGRAM Bachelor of Science in Education Degree Major in Chemistry

Freshman Year

Fall Semester		Spring Semester	
CHE 111	General Chemistry I	CHE 120	General Chemistry II
MAT 107	Calculus I	MAT 108	Calculus II
ENG 104	English Composition	ENG 108	English Composition
HIS 140	American History	PSY 101	General Psychology
	16		16

Sophomore Year

CHE 321	Quantitative Analysis	SED 202	Intro. to Sec. Ed.
MAT 209	Calculus III	SED 203	Part. in Sec. Teach. I
SPH 104	Oral Communications	CHE 326	Instrumental Analysis
PED 101	Concepts of Physical Activity	HUM205	Humanities II
HUM203	Humanities I		Humanities Elective
	16		Social Science Elective
			Physical Activity
			17

Junior Year

CHE 310	Organic Chemistry I	PHY 111	College Physics II
CHE 311	Organic Chemistry Lab I	CHE 465	Chemistry Teaching: Methods
CHE 341	Advanced Inorganic Chem.		Social Science Elective
PHY 110	College Physics I		Physical Activity
	Physical Activity	SED 303	Exp. in Sec. Teaching II
	Free Elective	SED 304	Psy. in Sec. Teaching
	17		16

Senior Year

CHE 431	Physical Chemistry I	SED 404	Foundations in Sec. Ed.
CHE 432	Physical Chemistry Lab I	SED 407	Ed. of the Ex. Student
CHE 495	Seminar in Chemistry	SED 409	Sec. Stu. Teaching III
	Free Elective		14
	14		

SAMPLE PROGRAM
Bachelor of Arts in Natural Science Degree
Chemistry Emphasis

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
BIO 111	General Biology I	3
ENG 104	English Composition	3
		16

Spring Semester

CHE 120	General Chemistry II	5
BIO 112	General Biology II	3
HIS 140	American History	3
ENG 108	English Composition	3
101	Concepts of Physical Activity	1
		15

Sophomore Year

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab I	2
BIO 312	Genetic Biology	4
GER 102	Elementary German I	3
	Social Science Elective	3
	Physical Activity	1
		16

CHE 312	Organic Chemistry II	3
CHE 313	Organic Chemistry Lab II	2
BIO 311	Animal Physiology	4
GER 112	Elementary German II	3
PSY 101	General Psychology	3
	Physical Activity	1
		16

Junior Year

BIO 310	Cellular Biology	4
PHY 110	College Physics I	5
GER 202	Intermediate German	3
SPH 104	Oral Communications	3
	Physical Activity	1
		16

PHY 111	College Physics	3
	German Elective	3
HUM203	Humanities I	3
BIO 312	Genetic Biology	4
CHE 370	Biochemistry	4
		17

Senior Year

CHE 321	Quantitative Analysis	4
HUM205	Humanities II	3
	Free Elective	9
		16

	Humanities Elective	3
	Free Electives	9
	Soc. Science electives	3
		15

SAMPLE PROGRAM
Bachelor of Arts Degree
Major in Chemistry

Freshman Year

Fall Semester

CHE 111	General Chemistry I	5
MAT 107	Calculus I	5
ENG 104	English Composition	3
HIS 140	American History	3
		16

Spring Semester

CHE 120	General Chemistry II	5
MAT 108	Calculus II	5
ENG 108	English Composition	3
PSY 101	General Psychology	3
		16

Sophomore Year

CHE 310	Organic Chemistry I	3
CHE 311	Organic Chemistry Lab I	2
MAT 209	Calculus III	5
GER 102	Elementary German I	3
	Social Science Elective	3
		16

CHE 312	Organic Chemistry II	3
CHE 313	Organic Chemistry Lab II	2
GER 112	Elementary German II	3
SPH 104	Oral Communications	3
PED 101	Physical Education Concepts	1
	Free Elective	3
		15

Junior Year

CHE 321	Quantitative Analysis	4
GER 202	Intermediate German	3
HUM203	Humanities I	3
PHY 110	College Physics I	5
	Physical Activity	1
		16

	German Elective	3
PHY 111	College Physics II	3
CHE 326	Instrumental Analysis	4
HUM205	Humanities II	3
CHE 370	Biochemistry	4
		17

Senior Year

CHE 431	Physical Chemistry I	3
CHE 432	Physical Chemistry Lab II	2
CHE 495	Seminar in Chemistry	1
	Free Electives	6
	Social Science Elective	3
	Physical Activity	1
		16

	Humanities Elective	3
	Free Elective	11
	Physical Activity	1
		15

SAMPLE PROGRAM
Bachelor of Science Degree
Major in Chemistry

Freshman Year

Fall Semester			Spring Semester		
CHE 111	General Chemistry I	.5	CHE 120	General Chemistry II	.5
MAT 107	Calculus I	.5	MAT 108	Calculus II	.5
ENG 104	English Composition	.3	ENG 108	English Composition	.3
HIS 140	American History	.3	PSY 101	General Psychology	.3
		<hr/> 16			<hr/> 16

Sophomore Year

CHE 321	Quantitative Analysis	4	CHE 326	Instrumental Analysis	4
MAT 209	Calculus III	5	PHY 210	University Physics I	5
GER 102	Elementary German I	3	GER 112	Elementary German II	3
SPH 104	Oral Communications	3	Social Science Elective		3
PED 101	Concepts of Physical Activity	1	Physical Activity		1
		16			16

Junior Year

CHE 310	Organic Chemistry I	3	CHE 312	Organic Chemistry II	3
CHE 311	Organic Chemistry Lab I	2	CHE 313	Organic Chemistry Lab II	2
CHE 341	Advanced Inorganic Chemistry	3	PHY 212	University Physics III	3
PHY 211	University Physics II	4	CSC 188	Fortran Language	3
Social Science Elective		3	CHE 370	Biochemistry	4
Physical Activity		1	Physical Activity		1
		16			16

Senior Year

CHE 431	Physical Chemistry I	3	Free Elective		5
CHE 432	Physical Chemistry Lab I	2	CHE 433	Physical Chemistry II	3
CHE 495	Seminar in Chemistry	1	CHE 434	Physical Chemistry Lab II	2
Free Elective		6	CHE 490	Research in Chemistry	3
ENG 210	Approaches to Literature	3			13
		15			

SAMPLE PROGRAM
Bachelor of Science Degree
Major in Medical Technology

Freshman Year

Fall Semester		Spring Semester	
CHE 111	General Chemistry I	CHE 120	General Chemistry II
BIO 111	General Biology I	BIO 112	General Biology II
ENG 104	English Composition	ENG 108	English Composition
HIS 140	American History	MAT 105	College Algebra
PED 101	Concepts of Phys. Activity		Physical Activity
MTE 105	Intro. to Health Science		
16		15	

Sophomore Year

BIO 310	Cellular Biology	4	BIO 312	Genetic Biology	4
CHE 321	Quantitative Analysis	4	BIO 311	Animal Physiology	4
SOC 110	General Sociology	3	PHY 101	Concepts & Prin. of Physics	4
SPH 104	Oral Communications	3	CHE 326	Instrumental Analysis	4
Physical Activity		1	Physical Activity		1
		15			17

Junior Year

BIO 399	Microbiology	5	CHE 370	Biochemistry	4
CHE 310	Organic Chemistry I	3	BIO 400	Microbiology of Hum. Disease	5
CHE 311	Organic Chemistry Lab I	2	HUM205	Humanities II	3
HIS 110	Modern Civilization	3	Humanities elective		3
HUM203	Humanities I	3	Social Science elective		3
		16			18

Senior Year

Taken at an affiliated hospital
 12 months

MTE 451	Medical Technology Internship I	12
MTE 452	Medical Technology Internship II	12
MTE 453	Medical Technology Internship III	6

department of ENGLISH
and MODERN LANGUAGES

The Department of English and Modern Languages is organized to meet the needs of all students. Through its participation in the general studies program, the Department offers work in composition, basic literary study, and language; through the Developmental Reading and Writing Laboratory, it provides opportunities for improvement in basic skills and habits of study. Major and minor sequences may include work in literature, writing, and language. In its endeavors, the Department works toward a fourfold goal: the improvement of writing; the development of skill in organizing and expressing ideas and in the interpretations of ideas expressed by others; the development and refinement of habits of critical and perceptive reading; and the increase of language awareness and precision. In all its pursuits, the Department works toward the general end of encouraging the student to grow in self-knowledge and the knowledge of others through its emphasis on the humane and liberal characteristics of its offerings.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in English

In addition to at least 9 credit hours of English included in the general studies program, a minimum of 33 credit hours of course work in English must be completed. The following specific courses are required: English 224, 332 or 434, 310 or 312 plus an additional 3 hour course in English literature; 360 or 362 plus an additional 3 hour course in American literature; English 368 and 486. An additional 9 credit hours must be selected from English courses numbered above 300. The student and his adviser must plan a program that includes some work beyond that encountered in basic survey courses in fiction, drama, and poetry, and at least one course providing a major emphasis in each of the following periods: pre-eighteenth century, eighteenth century, nineteenth century, and twentieth century. Although appropriate English-Education courses may be presented as part of a degree program, they may not be used to fulfill the requirements listed above.

Minor in English

In addition to at least 9 hours of English from the general studies program, a minimum of 21 credit hours of English must be completed. Specific requirements are 224; 310 or 312, plus an additional course in English literature; 360 or 362, plus an additional course in American literature; 368, and 3 hours elected from courses numbered above 300 (excluding courses in English-Education).

Minor in Journalism

Courses must include 18 hours in journalism. Students interested in pursuing a minor toward admission to a school of journalism should be advised early. Generally, a strong background in liberal arts and sciences is recommended, but some courses may be more important than others.

Major in French, German, or Spanish

The major in French, German, or Spanish requires 30 hours of course work in one language with at least 6 hours in courses numbered 400 or above.

Minor in French, German, or Spanish

Eighteen credit hours in one language constitutes a minor.

BACHELOR OF SCIENCE IN EDUCATION

Major in English

In addition to general studies requirements, a minimum of 32 hours of course work must be completed. The following specific courses are required: English 224, 234 or 434, 310 or 312, plus an additional course in English literature; 360 or 362 plus an additional course in American literature. English 368, 400, 465, 486; Education 311; Theatre 218. An additional 3 credit hours must be selected from English courses numbered above 300. Courses should be selected so that the student's program includes work in each of the major genres and significant selections from major literary periods.

Minor in English

Since the bachelor of science minor is specifically offered for the purpose of preparing the student for a second teaching field, it is structured to meet certification requirements and basic needs of teachers of English in grades seven through twelve. In addition to general studies courses, the following specific courses are required: 224; 6 hours of English literature, including 310 or 312; 6 hours of American literature, including 360 or 362; 400; 234 or 434; and Education 311. The minor must total 24 hours.

Major in French, German, or Spanish

At least 30 hours must be completed in foreign languages with a minimum of 24 hours in one language. At least 6 hours of the requirement must be secured in 400 level courses in the student's specialization.

A second teaching area is strongly recommended. (A student can be certified to teach a second language in K-9 with 18 hours in the second language. Certification to teach a second language in K-12 requires 24 hours in the second language.)

ENGLISH COMPOSITION AND LANGUAGE

- ENG100 Basic Written Communication Skills (3) i, ii**
Instruction in reading and writing open to any student, but mandatory as first course for students scoring below 14 on ACT English test. Does not fulfill the English Composition requirement for a baccalaureate degree.
- ENG104 Composition and Rhetoric I (3) i, ii, iii**
Instruction and practice in reading and writing, with emphasis given to expository prose.
- ENG108 Composition and Rhetoric II (3) i, ii, iii**
Instruction in reading various literary genres and continued practice in writing.
Prerequisite: English 104.
- ENG112 Honors Composition and Rhetoric (3) i**
An enriched course open to students with ACT English scores above 24. This course fulfills the English communications requirement for regularly enrolled students.
- ENG224 Advanced Composition and Literature (3) i, ii**
Required for English majors and minors, this course offers systematic instruction in writing about literature.
Prerequisite: English 108 or 112.
- ENG338 Creative Writing (3) i**
Intensive practice in writing poetry, fiction, or drama, in accordance with the interests of the student. May be repeated for a maximum total of 6 credit hours.
Prerequisite: English 108 or 112.
- ENG332 History of the English Language (3) ii**
Growth and structure of the English language.
Prerequisite: Sophomore standing.
- ENG434 Introduction to Linguistics (3) ii**
An introduction to the study of the structure of language.
Prerequisite: English 108 or 112.

ENGLISH EDUCATION

English Education courses may not be used to fulfill any requirement for the Bachelor of Arts degree with a major in English.

- ENG234 Modern English Grammar (3) i**
A systematic study of traditional, structural, and transformational grammar. Designed to meet the needs of the elementary and secondary teacher.
Prerequisite: English 108 or 112.
- ENG300 Children's Literature (3) i, ii, iii**
Children's books; the use of literature with children. Does not fulfill any requirement for the major in English.
Prerequisite: English 108 or 112.
- ENG400 Literature for Adolescents (3) ii**
Contemporary and traditional materials suitable for middle and secondary schools; standards of evaluation; listings and reliable reviews of appropriate books.
Prerequisite: Junior standing.
- ENG465 English Teaching: Methods and Materials (2) i**
Techniques, materials, and resources used in the English curriculum in the secondary schools.
Prerequisite: Junior standing.

ENGLISH LITERATURE

- ENG210 Approaches to Literature (3) i, ii, iii**
A general studies course providing practice in reading poetry, prose fiction, and drama. Various thematic ap-

proaches may be offered. Primarily for the non-English major.

Prerequisite: English 108 or 112, or consent of instructor.

- ENG220 Classical Backgrounds for Literature (3) i, ii**
Interdisciplinary in content, this course attempts to help the student establish a foundation for a meaningful study of English literature. Recommended for majors but open to all students.
Prerequisite: English 108 or 112, or consent of instructor.
- ENG248 Visual Literature (3) ii (even numbered years)**
Comparative study of themes and ideas as embodied in a variety of media, including cinema.
Prerequisite: English 108 or 112.
- ENG250 Afro-American Literature and Thought (3) i (even numbered years)**
Study of writings by Americans of African descent.
- ENG310 English Literature (3) i**
Beowulf to 1785.
Prerequisite: English 108 or 112.
- ENG312 English Literature (3) ii**
A continuation of English 310; 1785 to 1930.
Prerequisite: English 108 or 112.
- ENG360 American Literature to 1865 (3) i**
American literature from Bradford to Lincoln.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG362 American Literature since 1865 (3) ii**
American literature from Whitman to the present.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG368 Shakespeare (3) i**
Shakespearean drama and poetry.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG372 Seventeenth Century English Literature (3) ii (even numbered years)**
Poetry and prose of the seventeenth century.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG374 Eighteenth Century English Literature (3) ii (odd numbered years)**
The major literary movements and writers of the eighteenth century.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG380 Romantic Poetry and Prose (3) i (even numbered years)**
Reading and criticism of representative works of the period.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG382 Victorian Literature (3) i (odd numbered years)**
Reading and criticism of the works of major poets and prose writers of the period.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG390 Modern European Literature (3) i (even numbered years)**
Study of translations of major works in various genres.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG420 The American Short Story (3) ii (odd numbered years)**
Representative selections.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG422 The American Novel (3) ii (even numbered years)**
A study of selected works of the Nineteenth and Twentieth Centuries.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG426 Contemporary Poetry (3) i (odd numbered years)**
Poetry from 1945 to the present.
Prerequisite: English 210 or 220, or consent of instructor.

- ENG450 Independent Study in English (1-5) i, ii, iii**
Independent research on a topic or problem which the student wishes to pursue in depth.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- ENG468 The English Novel: Defoe to Austen (3) i (odd numbered years)**
The beginnings of the English Novel in the eighteenth century, its history as a major literary genre and its development into various modes from Defoe to Austen.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG470 The English Novel: Scott to the Present (3) i (even numbered years)**
Traces the development of the English novel from the Romantic period, through the Victorian Age, and to the present.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG478 Modern Drama (3) ii (even numbered years)**
Ibsen to the present.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG482 Chaucer (3) i (odd numbered years)**
Chaucer's works and the social background of the England of his day.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG484 Milton (3) ii (odd numbered years)**
Life, period, and representative works of Milton.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG486 Theory and Practice of Criticism (3) ii**
History of criticism, and practice in the application of theory.
Prerequisite: English 210 or 220, or consent of instructor.
- ENG488 Seminar in English (1-4) i, ii**
Study of selected topics or problems in English. Open to advanced juniors or seniors with the consent of the instructor and department chairman.

JOURNALISM

- JOU118 Principles of Journalism and Mass Media (3) i**
A general introduction to the historical evolution of modern communications media with an emphasis on the distinguishing features of the newspaper, magazine, radio, and television, and their interrelated roles in today's society.
- JOU120 News Writing I (3) ii**
Introduction and practice in the application of professional news writing principles to straight news reporting, featurized news reporting, features, and advertising, designing and composition.
Prerequisite: Journalism 118 and English 108 or 112. (Required English courses may be taken concurrently.)
- JOU126 Journalism Laboratory—Newspaper Production (2) i, ii**
Supervised experience in the production of the campus newspaper.
Prerequisite: Concurrent or previous enrollment in a journalism class, or the permission of the instructor.
- JOU127 Journalism Laboratory—Yearbook Production (2) i, ii**
Supervised instruction in the production of the campus yearbook. (Laboratory courses may be repeated for a maximum of 6 credit hours.)

- JOU222 News Writing II (3) i**
Instruction and practice in the application of professional news writing principles to interpretative and in-depth reporting, with an emphasis on editorial and column writing.
Prerequisite: Journalism 120
- JOU224 News Editing (3) ii**
Introduction to newspaper production management; intensive practice in copyreading, editing, headline writing, and page make-up.
Prerequisite: Journalism 222.

MODERN LANGUAGES

A student with extensive background in a language is encouraged to petition for a test-out. Two years of high school study in a language should provide background for testing out of the first semester course, and three to four years of study should enable the student to test out of the second basic course.

FRENCH

- FRE102 Elementary French I (3) i**
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.
- FRE112 Elementary French II (3) ii**
Continuation of French 102. 3 hours lecture, 2 hours lab.
Prerequisite: French 102 or equivalent.
- FRE202 Intermediate French (3) i**
Continuation of French 112: completion of essential grammar. 3 hours lecture, 2 hours lab.
Prerequisite: French 112 or equivalent.
- FRE212 French Conversation and Composition (3) ii**
Refinement of writing and speaking skills through review of structural patterns, mastery of idiomatic usages and study of vocabulary distinctions. 3 hours lecture, 2 hours lab.
Prerequisite: French 202 or equivalent.
- FRE315 French Reading and Conversation (3) i (even numbered years)**
Short contemporary French masterpieces. 3 hours lecture, 1 hour lab.
Prerequisite: French 212 or equivalent.
- FRE319 Advanced French Conversation and Composition (3) i (odd numbered years)**
Advanced French grammar and syntax, less common idiomatic forms and subtle vocabulary distinctions. 3 hours lecture, 1 hour lab.
Prerequisite: French 315 or equivalent.
- FRE320 French Civilization and Culture (3) ii (odd numbered years)**
The cultural basis of modern France. 3 hours lecture, 1 hour lab.
Prerequisite: French 315 or equivalent.
- FRE350 Introduction to French Literature (3) ii (even numbered years)**
Selected masterpieces in French literature from the twelfth to the twentieth century.
Prerequisite: French 315 or 319.
- FRE402 Readings in French (3) i**
A seminar in French literature or language. Topic will vary from semester to semester. May be repeated twice for credit.
Prerequisite: French 320 or 350.

FRE412 Topics in French (3) ii
An advanced seminar in French literature or language. Content of course will change from semester to semester. May be repeated twice for credit.
Prerequisite: French 402.

FRE450 Independent Study in French (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

GERMAN

GER102 Elementary German I (3) i
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.

GER112 Elementary German II (3) ii
Continuation of German 102. 3 hours lecture, 2 hours lab.
Prerequisite: German 102 or equivalent.

GER202 Intermediate German (3) i
Continuation of German 112: completion of essential grammar. 3 hours lecture, 2 hours lab.
Prerequisite: German 112 or equivalent.

GER212 German Conversation and Composition (3) ii
Use of short literary works as a basis for conversation and short compositions. 3 hours lecture, 2 hours lab.
Prerequisite: German 202 or equivalent.

GER260 Scientific German (3) (on demand)
Scientific material written in German; basic scientific terms. Reading and translation; stress on scientific vocabulary.
Prerequisite: German 202 or equivalent.

GER315 German Reading and Conversation (3) i (even numbered years)
Short contemporary German masterpieces, newspapers and magazines as a basis for conversation.
Prerequisite: German 212 or equivalent.

GER319 German Short Story (3) i (odd numbered years)
Reading short stories of 10-25 page length and discussion in German.
Prerequisite: German 212.

GER320 German Civilization and Culture (3) ii (odd numbered years)
Study of German art, music, history and scientific heritage, and important German personalities.
Prerequisite: German 212 or equivalent.

GER350 Introduction to German Literature (3) ii (even numbered years)
Selected masterpieces in modern German literature.
Prerequisite: German 315 or 319.

GER402 Readings in German (3) i
A seminar in German literature or language. Topic of course will vary from semester to semester. May be repeated twice for credit.
Prerequisite: German 320 or 350.

GER412 Topics in German (3) ii
An advanced seminar in German literature or language. Content of course will change from semester to semester. May be repeated twice for credit.
Prerequisite: German 402.

GER450 Independent Study in German (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

SPANISH

SPA102 Elementary Spanish I (3) i
Basic structural patterns of the language and essential grammar; development of active proficiencies and comprehension of grammatical concepts. 3 hours lecture, 2 hours lab.

SPA112 Elementary Spanish II (3) ii
Continuation of Spanish 102. 3 hours lecture, 2 hours lab.
Prerequisite: Spanish 102 or equivalent.

SPA202 Intermediate Spanish (3) i
Continuation of Spanish 112; completion of essential grammar. 3 hours lecture, 2 hours lab.
Prerequisite: Spanish 112 or equivalent.

SPA212 Spanish Conversation and Composition (3) ii
Conversations and written compositions based on textual material as well as contemporary topics. 3 hours lecture, 2 hours lab.
Prerequisite: Spanish 202 or equivalent.

SPA315 Spanish Conversation and Reading (3) i (even numbered years)
Continuation of oral skills with emphasis on the reading skills. An introduction to literature. 3 hours lecture, 1 hour lab.
Prerequisite: Spanish 212 or equivalent.

SPA319 Advanced Spanish Conversation and Composition (3) i (odd numbered years)
Advanced Spanish grammar and syntax, less common idiomatic forms and subtle vocabulary distinctions. 3 hours lecture, 1 hour lab.
Prerequisite: Spanish 212 or equivalent.

SPA320 Hispanic Civilization and Culture (3) ii (odd numbered years)
Historical and cultural heritage of the Spanish speaking peoples.
Prerequisite: Spanish 315 or equivalent.

SPA350 Introduction to Spanish Literature (3) ii (even numbered years)
Selected masterpieces in Spanish literature from the eleventh century to the present.
Prerequisite: Spanish 315 or 319.

SPA402 Readings in Spanish (3) i
A seminar in Spanish literature or language. Topic will vary from semester to semester. May be repeated twice for credit.
Prerequisite: Spanish 320 or 350.

SPA412 Topics in Spanish (3) ii
An advanced seminar in Spanish literature or language. Content of course will change from semester to semester. May be repeated twice for credit.
Prerequisite: Spanish 402.

SPA450 Independent Study in Spanish (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

SAMPLE PROGRAM**B.A. in English****Freshman Year**

Fall Semester		Spring Semester	
ENG 104	Eng. Comp. ....3	ENG 108	Eng. Comp. ....3
102	Fr., Sp., or Ger. ....3	112	Fr., Sp., or Ger. ....3
	Math ....3		Natural Science ....5
	Speech ....3		Social Studies ....3
	Am. Hist. or National Gov't. ....3		P.E. Activity ....1
PED 101	P.E. Concepts ....1		
	<hr/>		<hr/>
	16		15

Sophomore Year

202	Fr., Sp., or Ger. ....3	212	Fr., Sp., or Ger. ....3
	Humanities ....3		Humanities ....3
ENG 220	Classical Backgrounds ....3		Social Studies ....3
ENG 224	Adv. Comp. ....3	204	Natural Science ....4
ENG 310	Eng. Lit. or Eng. Lit. Elective ....3	312	Eng. Lit. or Eng. Lit. Elective ....3
	P.E. Activity ....1		
	<hr/>		<hr/>
	16		16

Junior Year

	Am. or Eng. Lit. Elective ....3	ENG 332	Hist. of Eng. Lang. ....3
ENG 368	Shakespeare ....3		Am. Lit. Elective ....3
	Electives or Minor ....6		Electives or Minor ....6
ENG 300	Eng. Elective ....3		
	<hr/>		<hr/>
	15		12

Senior Year

	Electives or minor ....9	ENG 486	Theory, Prac. Critic ....3
ENG 300	Eng. electives ....6		Eng. Elective ....3
	<hr/>		Electives or Minor ....9
	15		<hr/>
			15

SAMPLE PROGRAM**B.S. in Education****Major in English****Freshman Year**

Fall Semester		Spring Semester	
ENG 104	Eng. Comp. ....3	ENG 108	Eng. Comp. ....3
	Math ....3		Natural Science ....5
	Humanities ....3		Speech ....3
	Social Studies or Nat'l. Gov't. ....3		Social Studies ....3
PED 101	P.E. Concepts ....1		P.E. Activity ....1
	<hr/>		<hr/>
	13		15

Sophomore Year

ENG 220	Classical Backgrounds ....3	SED 202	Intro. to Sec. Ed. ....2
ENG 224	Adv. Comp. ....3	SED 203	Part. in Sec. Teaching I ....1
ENG 234	Mod. Eng. Grammar ....3	SPH 218	Oral Interpretation ....3
ENG 310	Eng. Lit. (or elective) ....3		Natural Science ....4
	Humanities ....3	ENG 312	Eng. Lit. (or elective) ....3
	P.E. Activity ....1		Social Studies ....3
	<hr/>		P.E. Activity ....1
	16		<hr/>
			17

Junior Year

SED 303	Exp. in Sec. Teaching II ....3	ENG 362	Am. Lit. (or elective) ....3
SED 304	Psy. in Sec. Teaching ....4	ENG 400	Adol. Lit. ....3
SED 311	Teaching of Reading ....3	ENG 486	Theory and Prac. of Criticism ....3
ENG 360	Am. Lit. (or elective) ....3	ENG 300	Eng. elective ....3
	Elective or Minor ....3		Electives or Minor ....4
	<hr/>		<hr/>
	16		16

Senior Year

ENG 368	Shakespeare ....3	SED 404	Foundations in Sec. Ed. ....3
ENG 465	English Teaching ....2	SED 407	Ed. of the Ex. Student ....2
	Electives or Minor ....9	SED 409	Sec. Stu. Teaching III ....9
	<hr/>		<hr/>
	14		14

Students are encouraged, though not required, to take six or more elective hours in foreign language.

SAMPLE PROGRAM
B.S. in Education
Major in French, German, or Spanish
(with an optional minor in a second foreign language)

Freshman Year

Fall Semester

ENG 104	English Comp.	.3
102	Fr., Sp., or Ger.	.3
	Math Elective	.3
	Humanities Elective	.3
	Amer. Hist. or Nat'l. Gov't.	.3
PED 101	P.E. Concepts	.1
		<hr/>
		16

Spring Semester

ENG 108	English Comp.	.3
112	Fr., Sp., or Ger.	.3
101	Natural Science	.5
	Social Studies	.3
	P.E. Activity	.1
		<hr/>
		15

Sophomore Year

202	Fr., Sp., or Ger.	.3
102	Second Foreign Lang.	.3
	Speech	.3
ENG 220	Classical Backgrounds	.3
	Social Studies	.3
	P.E. Activity	.1
		<hr/>
		16

212	Fr., Sp., or Ger.	.3
112	Second Foreign Lang.	.3
	Natural Science	.4
SED 202	Intro. to Sec. Ed.	.2
SED 203	Part. in Sec. Teaching I	.1
	Elective	.3
	P.E. Activity	.1
		<hr/>
		17

Junior Year

SED 303	Exp. in Sec. Teaching II	.3
SED 304	Psy. in Sec. Teaching	.4
315	Reading and Conv.	.3
202	Second Foreign Lang.	.3
	Elective	.3
		<hr/>
		16

320	Civ. and Culture	.3
	Humanities Elective	.3
212	Second Foreign Lang.	.3
	Electives	.7
		<hr/>
		16

Senior Year

402	Readings in Fr., Sp., or Ger.	.3
319	Adv. Comp. and Conv.	.3
315	Reading and Conv. (second lang.)	.3
	General Studies Elective	.3
		<hr/>
		15

SED 404	Foundations in Sec. Ed.	.3
SED 407	Ed. of the Ex. Student	.2
SED 409	Sec. Stu. Teaching III	.9
	*412 Topics in Fr., Sp., or Ger.	.3
		<hr/>
		17

*412 Topics in Fr., Sp., or Ger. may be taken in the professional semester only with the consent of the instructor and the Chairman of the Department of Secondary Education. This sample schedule is appropriate for French, Spanish, or German majors with a minor in a second foreign language. The inclusion of a minor is, of course, completely optional.



SAMPLE PROGRAM
B.A. in French*
 (with optional minors in Spanish and English)

Fall Semester		Spring Semester	
FRE 102	Elementary French I3	FRE 112	Elementary French II3
ENG 104	Eng. Comp.3	ENG 108	Eng. Comp.3
	Math3		Natural Science5
	Speech3		Elective3
	Amer. Hist. or Nat'l. Gov't.3		P.E. Activity1
	P.E. Concepts1		
	16		15
Sophomore Year			
FRE 202	Intermediate French3	FRE 212	Fr. Conv. and Comp.3
SPA 102	Elem. Spanish I3	SPA 112	Elem. Spanish II3
ENG 224	Advanced Comp.3	ENG 220	Classical Backgrounds3
	Soc. Studies Elective3		Social Studies Elec.3
	Humanities Elective3		Humanities Elective3
	P.E. Activity1		P.E. Activity1
	16		16
Junior Year			
FRE 315	Readings and Conv.3	FRE 320	Fr. Civ. and Culture3
SPA 202	Intermediate Spanish3	SPA 212	Sp. Conv. and Comp.3
ENG 310	English Lit. or Eng. Elec.3		Am. Lit.3
ENG 360	American Lit. or Am. Elec.3		Natural Science4
	Elective3		Elective3
	15		16
Senior Year			
FRE 402	Readings in French3	FRE 412	Topics in French3
FRE 319	Adv. Fr. Conv. and Comp.3	FRE 350	Intro. to Fr. Lit.3
SPA 315	Sp. Readings and Conv.3	SPA 320	Sp. Civ. & Culture3
ENG 368	Shakespeare3	ENG 300	English Elective3
	Elective3		Elective3
	15		15

*This sample schedule is appropriate for French, German, or Spanish majors with minors in a second foreign language as well as English. The inclusion of a minor is, of course, completely optional.



department of

FINE ARTS

The Department of Fine Arts is concerned with developing and deepening the appreciation and understanding of music and art for the entire student body as well as improving the skills and disciplining the talents of majors. The

Department also provides courses in history, appreciation, and basic skills for those who wish to teach subjects in the fine arts area in elementary and secondary schools.

In order to provide students the opportunity to broaden their contact with the fine arts, the Department encourages attendance at the many cultural programs in the St. Joseph galleries and concert halls, in addition to presenting programs and showings by student musicians and artists.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

MAJOR IN ART

Courses in Art must total 48 credit hours. The following specific courses are required: Art 205, 206, plus 6 additional credit hours selected from courses in art history; Art 130, 260, 320 or 370, 330 (two semesters), 360, 380, 460, 495, plus 9 additional credit hours selected from courses in studio art. Degree candidates must present a juried exhibition of their work during the senior year.

BACHELOR OF SCIENCE IN EDUCATION

MAJOR IN ART

Courses in Art must total 48 credit hours. The following specific courses are required: Art 205, 206, plus 3 additional credit hours selected from courses in art history; Art 130, 260, 300, 320 or 370, 330 (two semesters), 360, 400, 460, 495, plus 10 additional credit hours selected from courses in studio art. Degree candidates must present a juried exhibition of their work during the senior year.

MAJOR IN MUSIC—VOCAL EMPHASIS

Courses in music must total 69 credit hours. The following specific courses are required: 100, 146, 147, 160, 161, 162, 163, 169, 240, 241, 247, 260, 261, 262, 263, 330, 350, 462, 465, plus 8 credit hours applied voice and 4 credit hours music electives. Degree candidates must pass piano proficiency examination at the conclusion of 247 and prior to Education 408, participate in one major ensemble each semester (with the exception of the professional semester), and present a recital during the senior year.

MAJOR IN MUSIC—INSTRUMENTAL EMPHASIS

Courses in music must total 71 credit hours. The following specific courses are required: 100, 140, 141, 142, 143, 148, 160, 161, 162, 163, 169, 240, 242, 247, 260, 261, 262, 263, 330, 351, 462, 465, plus 8 credit hours applied major. Degree candidates must pass piano proficiency examination at the conclusion of 247 and prior to Education 408, participate in one major ensemble each semester (with the exception of the professional semester), and present a recital during the senior year.

Vocal or instrumental majors may choose to take an elementary education emphasis by substituting two courses (331, Music Activities for Elementary Teachers; and 332, Supervising Elementary Teaching of Music) for 462, Form and Analysis.

Vocal majors may achieve instrumental certification with the addition of 8 credit hours in instrumental music courses.

Instrumental majors may achieve vocal certification with the addition of 8 credit hours in vocal music courses.

ART

HISTORY AND APPRECIATION OF ART

- ART100 Introduction to Art (3) i, ii, iii**
General background in the history, philosophy, principles, and techniques of the visual arts. Not for art majors.
- ART205 Ancient Through Medieval Art (3) i**
History of art in western civilization: prehistoric times through the Middle Ages.
- ART206 Renaissance Through Modern Art (3) ii**
History of art in western civilization: Renaissance through modern times.
- ART307 Art of Eastern Civilization (3) ii (even numbered years)**
The history of art in eastern civilization from earliest records to the present day; visual arts of India, China, and Japan.
Prerequisite: Art 205, 206, or consent of instructor.
- ART308 Modern Painting, Architecture and Sculpture (3) i (odd numbered years)**
Art in the twentieth century.
Prerequisite: Art 205, 206, or consent of instructor.
- ART411 American Art (3) ii (odd numbered years)**
Development of Art in the United States.
Prerequisite: Art 205, 206 or consent of instructor.
- ART450 Independent Study in Art (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

STUDIO ART

- ART130 Beginning Drawing (3) i, ii, iii**
Elementary drawing with the figure, still life, landscape, and perspective in various media. 6 studio hours.
- ART260 Two-Dimensional Design (3) i**
Design in two-dimensional problems in various media. 6 studio hours.
- ART300 Art Teaching: Media and Concepts (3) i, ii, iii**
Media and concepts in elementary art for education majors.
- ART310 Beginning Ceramics (3) i, ii**
Basic foundations in ceramics: Theory, techniques, materials, processes. 6 studio hours. (Student must purchase the clay which he uses.)
- ART320 Beginning Water Media (3) i (odd numbered years)**
Water media: color, composition, and techniques. 6 studio hours.
Prerequisite: Art 130.
- ART330 Advanced Drawing (3) i, ii**
The figure in various media, and drawing as a complete form. May be repeated for a maximum total of 12 credit hours.
Prerequisite: Art 130.
- ART340 Beginning Printmaking (3) i, ii**
Wood block, etching, serigraphy. 6 studio hours.
Prerequisite: 6 credit hours drawing.
- ART360 Three-Dimensional Design (3) ii**
Form in the third dimension; design principles and

elements as they relate to three dimensions. 6 studio hours.

Prerequisite: Art 260.

- ART370 Beginning Painting (3) i, ii**
Beginning painting: color, composition, technique; the figure and still life. 6 studio hours.
Prerequisite: 6 credit hours of drawing.
- ART380 Beginning Sculpture (3) i, ii**
Basic foundations in sculpture: theory, techniques, materials, processes. 6 studio hours.
Prerequisite: Art 130.
- ART400 Secondary Art Education: Philosophy and Methods (2) ii**
Presentation of unique problems and duties of the secondary school art teacher.
Prerequisite: 20 hrs. art courses.
- ART410 Advanced Ceramics (3) i, ii**
Advanced techniques and problems in ceramics. 6 studio hours. May be repeated for a maximum total of 9 credit hours.
Prerequisite: Art 310 (Student must purchase the clay which he uses.)
- ART420 Advanced Water Media (3) ii (even numbered years)**
Continuation of Water Media. 6 studio hours. May be repeated for a maximum total of 9 credit hours.
Prerequisite: Art 320
- ART440 Advanced Printmaking (3) i, ii**
Continuation of Beginning Printmaking. 6 studio hours. May be repeated for a maximum total of 9 credit hours.
Prerequisite: Art 340.
- ART460 Composition in Art (3) i**
A sequel to Art 260 and 360. Re-definition and sophistication of the elements of design in problem solving; examination of master works, critiques; emphasis on college techniques.
Prerequisite: Art 360 and 6 hours drawing.
- ART470 Advanced Painting (3) i, ii**
Continuation of Painting. 6 studio hours. May be repeated for a maximum of 9 credit hours.
Prerequisite: Art 370.
- ART480 Advanced Sculpture (3) i, ii**
Advanced techniques in various media. 6 studio hours. May be repeated for a maximum total of 9 credit hours.
Prerequisite: Art 380.
- ART490 Multi-Media Studio Projects (3) i (even numbered years)**
Application of a variety of studio disciplines toward creative solution of assigned problems: three-dimensional design, sculpture, watercolor, mixed media drawing, printmaking, painting. 6 studio hours.
Prerequisite: Art 130, 330, plus 6 additional credit hours in studio art.
- AR495 Seminar in Art (3) i**
Topics to vary each year: relating art history, criticism, and studio problems.
Prerequisite: 9 credit hours art history and 12 credit hours studio art.

MUSIC

- MUS101 Perspectives in Music (3) i, ii, iii**
Music materials, forms, historical-social development of composers and compositions. For non-music majors.
- MUS160 Elementary Theory I (3) i**
Simple chord progression, accessory tones, harmonizing melodies and figured bass, original compositions in simple two and three part forms. 3 hrs.

MUS161 Elementary Sight-singing and Ear-training I (2) i, ii
Ear-training, sight-singing and key board application.

MUS162 Elementary Theory II (3) ii
Continuation of 160 adding modulation and seventh chords. 3 hrs.
Prerequisite: Music 160.

MUS163 Elementary Sight-singing and Ear-training II (2) i, ii
Ear-training, sight-singing and keyboard application.

MUS169 Introduction to Music Literature (2) ii
Vocal, keyboard, symphonic, and chamber music. To be taken concurrently with 162.
Prerequisite: Music 160 or Music 300.

MUS240 Elements of Conducting (2) i
Basic baton techniques for all rhythmic patterns, score reading and analysis of vocal and instrumental music.
Prerequisite: Music 162.

MUS241 Choral Conducting (2) ii
A laboratory course in advanced problems of choral conducting. Supervised conducting experience is provided.
Prerequisite: Music 240.

MUS242 Instrumental Conducting (2) ii
A laboratory course in advanced problems of instrumental conducting. Supervised conducting experience is provided.
Prerequisite: Music 240.

MUS260 Advanced Theory I (3) i
Continuation of Music 162 adding extended use of sevenths, accessory tones, harmonic elaboration, originals in the larger forms. 3 hrs.
Prerequisite: Music 162.

MUS261 Advanced Sight-singing and Ear-training I (2) i, ii
Ear-training, sight-singing and keyboard application.

MUS262 Advanced Theory II (3) ii
Continuation of Music 260. Extended modulations, altered chords, introduction to present day harmonic practice, original work in the larger forms. 3 hrs.
Prerequisite: Music 260.

MUS263 Advanced Sight-singing and Ear-training II (2) i, ii
Ear-training, sight-singing and keyboard application.

MUS300 Fundamentals of Music (3) i, ii, iii
Music fundamentals: development of skills necessary for sight singing, writing simple songs, and playing simple instruments. Primarily for elementary education majors.

MUS330 Methods and Materials for Elementary Music Teachers (3) i
Materials and procedures for teaching singing, music reading, rhythms, instrumental, listening, and creative activities.
Prerequisite: Music 160 or 300.

MUS331 Music Activities for the Elementary Teacher (2) ii (odd numbered years)
A study of music activities using rhythmic and melodic instruments and audio-visual aids.
Prerequisite: Music 160 or 300.

MUS332 Supervising Elementary Teaching of Music (2) ii (even numbered years)
Procedures for supervising the music program and for assisting elementary teachers. In-service training for the classroom music teacher.
Prerequisite: Music 330 or 331.

MUS337 Marching Band Techniques (1) i (odd numbered years)
Materials and ideas in Marching Band Techniques.
Prerequisite: Music 135.

MUS338 Instrument Care and Repair (1) ii (even numbered years)
Techniques and experience in the repair of band and orchestra instruments. Emphasizes practical and economical use of materials, skill, and time.
Prerequisite: Two of the following: Music 141, 142, 143, 148.

MUS348 Vocal Pedagogy (2) ii (even numbered years)
Scientific study of vocal teaching techniques, physiological, psychological, acoustical and musical, with application in an actual teaching situation.
Prerequisite: Music 241.

MUS350 History of Music: Primitive to Baroque (3) i
Musical styles and techniques; from primitive music to baroque.
Prerequisite: Music 169 and 262.

MUS351 History of Music: Classical to Modern (3) ii
Musical styles and techniques; from classical to modern.
Prerequisite: Music 169 and 262.

MUS449 Choral Literature (2) i (odd numbered years)
A study of choral literature emphasizing stylistic trends, musical characteristics and performance practices from the Medieval period to the Contemporary period.
Prerequisite: Music 169.

MUS450 Independent Study in Music (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

MUS462 Form and Analysis (3) i
The elements, harmonic content, and formal structures of music; historical development.
Prerequisite: Music 169 and 262.

MUS463 Arranging (2) ii
Classification of instruments and voices; arranging for various combinations of instruments and voices.
Prerequisite: Music 169 and 262.

MUS465 Methods and Materials for Secondary Music Teachers (2) ii
Problems and techniques of teaching music in junior and senior high schools; organization of instrumental and vocal groups; evaluation of materials. 2 hrs.
Prerequisite: Music 262.

MUS 499 Piano Pedagogy

MUSIC ENSEMBLES

MUS100 Recital (1) i, ii
Attendance at department sponsored or approved concerts. 1 hr. Required of all music majors each semester.

MUS110 Chorus (1) i, ii
Group singing of various styles of music literature. 2 hrs.

MUS135 Marching Band (1) i
Performance of marching maneuvers and pageants. 3 hrs.

MUS311 Choir (1) i, ii
Emphasizes tone production and musicianship, public performance of sacred and secular works. 3 hrs.
Prerequisite: Approval of the director.

- MUS312 Vocal Ensemble (1) i, ii**
Madrigal group, trios and quartets for public appearance. 3 hrs.
Prerequisite: Approval of the Director.
- MUS320 Percussion Ensemble (1) i, ii**
Chamber music performance.
Prerequisite: Approval of the director.
- MUS321 Brass Ensemble (1) i, ii**
Chamber music performance.
Prerequisite: Approval of the director.
- MUS322 Woodwind Ensemble (1) i, ii**
Chamber music performance.
Prerequisite: Approval of the director.
- MUS323 String Ensemble (1) iii**
Chamber music performance.
Prerequisite: Approval of the director.
- MUS324 Symphony Orchestra (1) i, ii**
Performance with the St. Joseph Symphony Orchestra for students who qualify by audition. 3 hours.
- MUS333 Stage Band (1) i, ii**
Select ensemble for public performance. 3 hrs.
Prerequisite: Approval of the director.
- MUS334 Symphonic Winds (1) ii**
Emphasis musicianship, playing skills; representative literature. 3 hrs.
Prerequisite: Approval of the director.

APPLIED MUSIC

Special Fees are assessed in these courses.

- MUS140 Class Strings I (2) i**
Class lessons to develop playing knowledge of upper strings; techniques of teaching instrumental groups.
- MUS141 Class Strings II (2) ii**
Class lessons in playing lower strings-continuation of Music 140.
Prerequisite: Music 140.
- MUS142 Class Woodwinds (2) i**
Same as Music 140 except for the instruments used.
- MUS143 Class Brass (2) ii**
Same as Music 140 except for the instruments used.
- MUS144 Class Piano I (2) i**
Sight reading, transposition, harmonization, reading music, playing by ear, improvisation. Little or no piano background required.

- MUS145 Class Piano II (2) ii**
Continuation of Music 144.
Prerequisite: Music 144 or consent of instructor.
- MUS146 Class Voice I (2) i**
Tone production, breath control, articulation, and interpretation.
- MUS147 Class Voice II (2) ii**
Continuation of Music 146.
Prerequisite: Music 146.
- MUS148 Class Percussion (2) i**
Same as music 140 except for the instruments used.
- MUS246 Class Piano III (2) i**
Continuation of Music 145.
Prerequisite: Music 145 or consent of instructor.
- MUS247 Class Piano IV (2) ii**
Continuation of Music 246.
Prerequisite: Music 246 or consent of instructor.
- MUS370 Applied Voice (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS371 Applied Piano (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS372 Applied Strings (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS373 Applied Brass (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS374 Applied Percussion (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS375 Applied Woodwinds (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.
- MUS376 Applied Organ (1) i, ii**
Private lessons. May be repeated for a maximum total of 8 credit hours. 1/2 hour.

SAMPLE PROGRAM
Bachelor of Arts
Major in Art
Freshman Year

Fall Semester		Spring Semester	
ART 130	Beginning Drawing .....3	ART 330	Advanced Drawing .....3
ART 260	Two-Dim. Design .....3	ART 360	Three-Dim. Design .....3
	Communicational Elec. ....3	ENG 108	Eng. Comp. ....3
	Humanities Elect. ....3		Social Science Elec. ....3
ENG 104	Eng. Comp. ....3		Humanities Elect. ....3
	P.E. Concepts .....1		P.E. Activities .....1
	16		16
Sophomore Year			
ART 330	Advanced Drawing .....3	ART 370	Painting .....3
ART 205	Ancient to Mod. Art .....3	ART 206	Ren. to Mod. Art .....3
HIS 101	Am. Nat'l. Gov't. ....3		Natural Science Elect. ....5
	Humanities Elect. ....3		Language .....3
102	Language .....3		P.E. Activities .....1
	P.E. Activities .....1		
	16		15
Junior Year			
	Art Studio Elect. ....6		Art History Elect. ....3
202	Language .....3		Art Studio Elective .....3
	Natural Sci. Elect. ....4		Math. Elective .....3
	Social Sci. El. ....3		Language .....3
	16	ART 460	Composition in Art .....3
			15
Senior Year			
	Art Studio Elective .....3		Senior Art Exhibit .....0
ART 380	Sculpture .....3		Free Electives .....6
ART 495	Seminar in Art .....3		Art Electives .....9
	Humanities Elect. ....3		
	Art History Elect. ....3		
	15		15



SAMPLE PROGRAM
Bachelor of Science in Education
Major in Art
Freshman Year

Fall Semester		Spring Semester	
ART 130	Beginning Drawing	ART 330	Advanced Drawing
ENG 104	Eng. Comp.	ART 360	Three-Dimensional Design
	Communications Elect.	ENG 108	Eng. Comp.
HIS 101	Am. Nat'l. Gov't.		Social Science Elective
ART 260	Two-Dimensional Design		Humanities Elective
PED 101	P.E. Concepts		P.E. Activity
	16		16
Sophomore Year			
ART 330	Adv. Drawing		Art Studio Elective
	Humanities elective	ART 206	Renaissance thru Mod. Art
ART 205	Ancient thru Med. Art		P.E. Activity
	Social Science Elect.		Natural Science Elective
	P.E. Activity	SED 202	Intro. to Sec. Ed.
	16	SED 203	Part. in Sec. Teaching I
			15
Junior Year			
ART 300	Art Teaching	ART 400	Secondary Art Education
	Art Studio Elect.		Art History Elect.
ART 370	Beginning Painting		Studio Art Elect.
ART 460	Composition in Art	SED 303	Teaching II
	Natural Science Elect.	SED 304	Ed. Psych. I
	16		16
Senior Year			
	Art Elective (Stud. or Hist.)	SED 404	Foundations in Sec. Ed.
ART 495	Seminar in Art	SED 407	Ed. of the Ex. Student
	Studio Art Elect.	SED 409	Sec. Stu. Teaching III
SED 331	Audio Visual Ed.		
	Humanities elective		
	Free Elective		
	17		14



SAMPLE PROGRAM
Bachelor of Science in Education
Major in Music, Instrumental Emphasis

Freshman Year

Fall Semester		Spring Semester	
MUS 100 Recital	1	MUS 100 Recital	1
MUS 135 Marching Band	1	MUS 334 Symphonic Winds	1
MUS 142 Class Woodwinds	2	MUS 143 Class Brass	2
Applied Music	1	Applied Music	1
MUS 160 Elem. Theory I	3	MUS 162 Elem. Theory II	3
MUS 161 Elem. Sight-Sing. I	2	MUS 163 Elem. Sight-Sing. II	2
ENG 104 Comp. & Rhetoric I	3	MUS 169 Intro. to Music Lit.	2
HIS 150 American History	3	ENG 108 Comp. & Rhetoric II	3
PED 101 P.E. Concepts	1	P.E. Activity	1
		Math Elective	3

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Sophomore Year

MUS 100 Recital	1	MUS 100 Recital	1
MUS 135 Marching Band	1	MUS 334 Symphonic Winds	1
MUS 148 Class Percussion	2	Applied Music	1
Applied Music	1	MUS 242 Inst. Conducting	2
MUS 240 Elem. of Conducting	2	MUS 262 Adv. Theory II	3
MUS 260 Adv. Theory I	3	MUS 263 Adv. Sight-Sing. II	2
MUS 261 Adv. Sight-Sing. I	2	MUS 247 Class Piano IV	2
Communications Elective	3	Soc. Science Elective	3
Humanities Elective	3	P.E. Activity	1
P.E. Activity	1	SED 202 Intro. to Sec. Ed.	2
		SED 203 Part. in Sec. Teach. I	1

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Junior Year

MUS 100 Recital	1	MUS 100 Recital	1
MUS 135 Marching Band	1	MUS 334 Symphonic Winds	1
Applied Music	1	Applied Music	1
MUS 330 El. Meth. & Mat.	3	MUS 465 Sec. Meth. & Mat.	2
MUS 140 Class Strings I	2	MUS 141 Class Strings II	2
MUS 350 Music History I	3	MUS 351 Music History II	3
SED 303 Exp. in Teach. II	3	Natural Science Elective	5
SED 304 Psych. in Sec. Teach.	4	MUS 338 Inst. Care & Repair	1
MUS 337 March. Band Tech.	1		

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Senior Year

MUS 100 Recital	1	Applied Music	1
MUS 135 Marching Band	1	SED 404 Found. in Sec. Ed.	3
Applied Music	1	SED 407 Ed. of the Except. Stud.	2
MUS 462 Form & Analysis	3	SED 409 Sec. Student Teach. III	9
Natural Science Elective	4		
Soc. Science Elective	3		
Humanities Elective	3		

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SAMPLE PROGRAM
Bachelor of Science in Education
Major in Music, Vocal Emphasis

Fall Semester		Spring Semester	
MUS 100 Recital	1	MUS 100 Recital	1
MUS 146 Class Voice I	2	MUS 147 Class Voice II	2
MUS 160 Elem. Theory I	3	MUS 162 Elem. Theory II	3
MUS 161 Elem. Sight-sing. I	2	MUS 163 Elem. Sight-sing. II	2
MUS 170 Applied Voice	1	MUS 169 Intro to Music Lit.	2
MUS 311 Choir	1	MUS 170 Applied Voice	1
ENG 104 Comp. & Rhetoric I	3	MUS 311 Choir	1
Humanities Elective	3	ENG 108 Comp. & Rhetoric II	3
PED 101 Concepts of Physical Act.	1	Math Elective	3
		P.E. Activity	1
	17		19
Sophomore Year			
MUS 100 Recital	1	MUS 100 Recital	1
MUS 270 Applied Voice	1	MUS 241 Choral Conducting	2
MUS 240 Elements of Conducting	2	MUS 247 Class Piano IV	2
MUS 260 Advanced Theory I	3	MUS 262 Advanced Theory II	3
MUS 261 Adv. Sight-sing. I	2	MUS 263 Adv. Sight-sing. II	2
MUS 311 Choir	1	MUS 270 Applied Voice	1
Communication Elective	3	MUS 311 Choir	1
HIS 150 American History	3	P.E. Activity	1
P.E. Activity	1	Social Science Elective	3
		SED 202 Intro. to Secondary Ed.	2
		SED 203 Part. in Secondary Teach. I	1
	17		19
Junior Year			
MUS 100 Recital	1	MUS 100 Recital	1
MUS 311 Choir	1	MUS 311 Choir	1
MUS 330 Elem. Meth. & Materials	3	MUS 348 Vocal Pedagogy	2
MUS 350 Music History I	3	MUS 351 Music History II	3
MUS 370 Applied Voice	1	MUS 370 Applied Voice	1
MUS 449 Choral Literature	2	MUS 465 Sec. Meth. & Materials	2
SED 303 Exp. in Sec. Teach. II	3	Natural Science Elective	5
SED 304 Psych. in Sec. Teach.	4		
	18		16
Senior Year			
MUS 100 Recital	1	MUS 470 Applied Voice	1
MUS 311 Choir	1	SED 404 Foundations in Sec. Ed.	3
MUS 462 Form and Analysis	3	SED 407 Ed. of the Excep. Student	2
MUS 470 Applied Voice	1	SED 409 Sec. Student Teach III	9
Natural Science Elective	4		
Social Science Elective	3		
Humanities Elective	3		
	16		15

department of
MATHEMATICAL SCIENCES

The Department of Mathematical Sciences contributes to the liberal education of all students and, in addition, provides specialized programs in computer science, data processing, mathematics and physics for those students who desire a more thorough preparation in these areas for jobs in business, government, industry and educational institutions.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in Mathematics

Courses in Mathematics must total 33 credit hours; courses in Physics must total 12 credit hours. The following specific courses are required: Mathematics 107, 108, 209, 216, 312 plus an additional 12 credit hours selected from mathematics courses numbered 300 or above, of which at least 3 credit hours are from mathematics courses numbered 400 or above; Physics 210, 211, 212.

BACHELOR OF SCIENCE**Major in Computer Science**

The major in Computer Science requires the completion of the following program for a total of 54 credit hours: Computer Science 182, 188, 240, 245, 284, 286; Mathematics 107, 108, 201, 209, 305, 312, Mathematics 417 or Computer Science 410, plus 9 additional hours of Computer Science courses numbered 300 or higher (excluding Computer Science 410).

Major in Data Processing

The major in Data Processing requires the completion of the following program for a total of 54 credit hours: Computer Science 182, 188, 240, 245, 284, 286; plus 12 credit hours of Computer Science electives; Mathematics 201 or MGT 210; and an approved program of 21 credit hours in a related area (The student must meet with the Computer Science faculty to design and obtain approval for this program).

Major in Mathematics

Courses in Mathematics must total 36 credit hours; courses in Physics must total 12 credit hours; courses in Computer Science must total 6 credit hours. The following specific courses are required: Mathematics 107, 108, 209, 216, 312; Physics 210, 211, 212 plus an additional 15 credit hours selected from Mathematics courses numbered 300 or above of which at least 3 credit hours are from Mathematics courses numbered 400 or above; Computer Science 182, 188.

BACHELOR OF SCIENCE IN EDUCATION**Major in Mathematics**

Courses in Mathematics must total 35 credit hours. The following specific courses are required: Mathematics 107, 108, 209, 216, 315, 316, 465; plus an additional 9 credit hours selected from Mathematics courses numbered 300 or above, of which at least 3 credit hours are from Mathematics courses numbered 400 or above.

ASSOCIATE OF SCIENCE DEGREE

The associate of Science Degree in Data Processing requires the completion of the following program for a total of 36 credit hours; Computer Science 182, 188, 240, 245, 284, 286; Mathematics 201 or MGT210; and an approved program of 15 credit hours in a related area (The student must meet with the Computer Science faculty to design and obtain approval for this program).

MINORS

Minor in Computer Science

The minor in Computer Science requires the completion of the following program for a total of 22 credit hours: MAT107 and MAT108; CSC188 and CSC284; plus 6 credit hours of Computer Science electives (excluding CSC182 and CSC288).

Minor in Data Processing

The minor in Data Processing requires the completion of the following program for a total of 21 credit hours; CSC182, 240, 245, and 345; Accounting 230; plus 6 credit hours of Computer Science electives (excluding CSC288).

Minor in Mathematics

Courses in Mathematics must total 21 credit hours. The following specific courses are required: Mathematics 107 and 108 plus elective courses in Mathematics numbered 200 or higher.

Minor in Physics

Courses in Physics must total 20 credit hours. The following specific courses are required: Physics 210, 211, 212, 310, 411.

COMPUTER SCIENCE

- CSC182 Introduction to Data Processing (3) i, ii, iii**
Overview of data processing and computer concepts as an area of general knowledge for the informed individual.
- CSC188 Introduction to FORTRAN IV PROGRAMMING (3) i, ii**
Structure and facilities of FORTRAN (FORmula TRANslation) programming.
Prerequisite: Mathematics 105, or Computer Science 182 and Mathematics 103.
- CSC240 Introduction to RPG Programming (3) i, ii**
Structure and facilities of RPG (Report Program Generator) programming.
Prerequisite: Computer Science 182
- CSC245 Introduction to COBOL Programming (3) i, ii**
Structure and facilities of COBOL (COmmon Business Oriented Language) programming.
Prerequisite: Computer Science 182.
- CSC284 Symbolic Assembler Language I (3) i, ii**
Assembly language level programming: Symbolic machine instructions, dumps, assembly language instructions, subprogram linkage, and vender supplied subprograms.
Prerequisite: Computer Science 188.
- CSC286 Computer and Programming Systems (3) i, ii**
An introduction to machine organization, programming and operating systems.
Prerequisite: Computer Science 284.
- CSC288 Readings in Computer Science (3) i, ii**
General reading and reporting from selected journal articles and books, and specialized reading and reporting on a selected topic.
Prerequisite: Departmental approval.
- CSC310 Character Processing with FORTRAN (3) i**
Study of subprograms designed to manipulate alphanumeric characters.
Prerequisite: Computer Science 188, with grade of C or better.
- CSC345 Advanced COBOL Programming (3) i, ii**
Continuation of Computer Science 245; table handling, error routine handling, and sequential and random access disk processing.
Prerequisite: Computer Science 245, with grade of C or better.
- CSC370 Information Retrieval (3) i**
Organization; hierarchies of storage, sorting, searching, and cross-referencing information from files.
Prerequisite: Computer Science 188.

- CSC384 Symbolic Assembler Language II (3) ii**
Continuation of Computer Science 284; vender supplied ILS's, ISS's, programmer written ILS's, ISS's, conversion routines, and macro assemblies.
Prerequisite: Computer Science 284.
- CSC388 Advanced FORTRAN Programming (3) ii**
Problem analysis, algorithm development, and applications using FORTRAN.
Prerequisite: Computer Science 188, with grade of C or better.
- CSC410 Programming Numerical Methods (3) i**
Computer approaches to numerical solutions to equations, solutions to systems of equations, linear programming, linear and polynomial approximations, numerical integration.
Prerequisite: Computer Science 188 and Mathematics 108.
- CSC450 Application Projects (1-5) i, ii, iii**
The student will complete an independent project under the supervision of one of the members of the Computer Science faculty.
Prerequisite: Senior college standing and project approval prior to course registration.
- CSC488 Data Processing Management (3) ii**
Basic management principles as applied to data processing. Assumes no prior management training.
Prerequisite: Senior college standing and one programming language course.

EARTH SCIENCE

- ESC204 Introduction to Geology (4) i, ii**
Survey of physical and historical geology. 3 hours lecture, 2 hours lab.
- ESC304 Environmental Earth Science (4) i, ii**
General survey of geology, meteorology, astronomy and oceanography. 3 hours lecture, 2 hours lab.
Prerequisite: 5 credit hours of Physical Science.

MATHEMATICS

- MAT101 Fundamental Concepts of Mathematics (3) i, ii, iii**
Elementary logic and application to proofs; historical development of numerals; bases other than 10; operations and mapping on sets; functions and relations; a brief systematic development of the number system.

- MAT103 Intermediate Algebra (3) i, ii, iii**
Addition, subtraction, multiplication and division of polynomials; linear equations and graphs; systems of equations; factoring; exponents; radicals; quadratic equations and inequalities.
- MAT105 College Algebra (3) i, ii, iii**
Quadratic systems, exponents, radicals, ratio, proportion, variation, the binomial theorem, progressions, inequalities, permutations, and combinations.
Prerequisite: Two units of high school algebra or grade of C or better in Mathematics 103 or consent of the instructor.
- MAT106 Trigonometry (3) i, ii, iii**
Trigonometric functions, trigonometric identities, trigonometric equations, logarithms, solution of triangles, inverse trigonometric functions.
Prerequisite: Mathematics 103 or consent of instructor.
- MAT107 Calculus with Analytic Geometry I (5) i, ii, iii**
Plane analytic geometry, differential calculus, and integral calculus.
Prerequisite: Grade of C or better in Mathematics 105 and 106 or consent of the instructor.
- MAT108 Calculus with Analytic Geometry II (5) i, ii**
Selected topics from analytic geometry, calculus.
Prerequisite: Grade of C or better in Mathematics 107 or consent of the instructor.
- MAT110 Technical Mathematics I (5) i, ii**
Principles and practice in the solution of practical problems using algebra and trigonometry.
Prerequisite: Consent of instructor.
- MAT111 Technical Mathematics II (5) ii**
Logarithms; systems of equations; equations of higher order; matrices and determinants; inequalities; progressions; elementary statistics.
Prerequisite: Technical Mathematics I or consent of instructor.
- MAT201 Elementary Statistics (3) i, ii, iii**
A basic course for students in natural sciences, the behavioral sciences, and social sciences; tabulation of data, graphic representation, measures of central tendency and dispersion, probability, types of distributions, sampling, hypothesis testing, elementary aspects of correlation.
Prerequisite: Mathematics 103.
- MAT209 Calculus with Analytic Geometry III (5) i, ii**
Infinite series, vectors, solid analytic geometry, partial differentiation, and multiple integrals.
Prerequisite: Grade of C or better in Mathematics 108.
- MAT210 Technical Mathematics III (3) i**
Elements of differentiation and integration, solution of second order linear differential equations with constant coefficients, applications.
Prerequisite: Mathematics 111 or consent of instructor.
- MAT216 Foundations of Mathematics (3) i**
Logic, sets, development of the real numbers and their properties.
Prerequisite: Mathematics 209 (concurrently) or consent of instructor.
- MAT300 Mathematics for Elementary Teachers I (3) i, ii, iii**
A basic course in mathematics; emphasis on structure, meanings, relationships, and logical reasoning in elementary mathematics.
Prerequisite: Mathematics 101 (not open to major or minor in mathematics).
- MAT305 Matrix Theory (3) i**
Matrix operations, determinants, matrix inversion, linear systems, functions of matrices, canonical forms.
Prerequisite: Mathematics 209 or consent of instructor.
- MAT312 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: Mathematics 209.
- MAT315 Topics in Geometry (3) ii**
Synthetic projective geometry; basic symbolic logic; mathematical systems and finite geometries; algebraic geometry; non-Euclidean geometry.
Prerequisite: Mathematics 216 or consent of instructor.
- MAT316 Modern Algebra (3) ii**
Groups, rings, fields and vector spaces; definitions and fundamental theorems; homomorphisms and isomorphisms; polynomials and field extensions.
Prerequisite: Mathematics 216.
- MAT332 Mathematical Statistics (3) i (odd years)**
The theory of mathematical statistics; probability, distribution theory and point estimation.
Prerequisite: Mathematics 209.
- MAT357 Real Analysis (3) i (even years)**
Topology of the real line, sequences and series, the derivative, the Riemann integral, Taylor's theorem, power series.
Prerequisite: Mathematics 216.
- MAT400 Mathematics for Elementary Teachers II (4) i, ii, iii**
A continuation of Mathematics 300.
Prerequisite: Mathematics 300 (not open to major or minor in mathematics).
- MAT406 Complex Variables (3) ii (odd years)**
Complex numbers; functions of a complex variable, limits, continuity, differentiation; analytic functions, harmonic functions; mapping by elementary functions; complex integration; power series; residues and poles.
Prerequisite: Mathematics 209.
- MAT417 Numerical Analysis (3) i**
The solution of algebraic and transcendental equations; finite differences; interpolation, numerical differentiation and integration; numerical solutions of ordinary differential equations.
Prerequisite: Mathematics 209 and Computer Science 188 or permission of instructor.
- MAT428 Topology (3) ii (even years)**
Topological spaces, Cartesian products, connectedness, separation axioms, covering axioms, metric spaces, compactness.
Prerequisite: Mathematics 316.
- MAT450 Independent Study in Mathematics (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- MAT465 Mathematics Teaching: Methods and Materials (2) ii**
Techniques, materials and resources used in the mathematics curriculum in secondary schools.
Prerequisite: Upper class standing; candidate for Bachelor of Science in Education Degree.

- MAT470 Seminar in Mathematics (1) i, ii**
Investigation and discussion of selected mathematical topics.
Prerequisite: Mathematics 209.

PHYSICS

- PHY101 Concepts and Principles of Physics (4) i, ii, iii**
A comprehensive treatment of the concepts and laws of physics using a non-mathematical approach. 3 hours lecture-demonstration, 2 hours laboratory.
- PHY104 Introduction to Astronomy (3) i, ii**
A basic course in astronomy, mostly descriptive in nature; solar system, stellar astronomy, structure of galaxy and universe. 3 lecture hours per week.
Prerequisite: A basic knowledge of high school algebra and plane geometry.
- PHY110 College Physics I (5) i**
Classical treatment of mechanics, waves, energy, electricity and magnetism. 4 hours lecture, 3 hours laboratory.
Prerequisite: Mathematics 103 or consent of the instructor.
- PHY111 College Physics II (3) ii**
Relativity, atomic physics and nuclear physics. 3 hours lecture.
Prerequisite: Physics 110 or consent of the instructor.

- PHY210 University Physics I (5) ii**
Calculus level mechanics, heat, and wave motion. 4 hours lecture, 3 hours laboratory.
Prerequisite: High School Physics and Calculus I or consent of instructor.
- PHY211 University Physics II (4) i**
Calculus level electricity, magnetism and optics. 3 hours lecture; 3 hours laboratory.
Prerequisite: Physics 210.
- PHY212 University Physics III (3) ii**
Calculus level modern physics. 3 hours lecture.
Prerequisite: Physics 211.
- PHY310 Modern Physics (3) i (odd numbered years)**
Selected topics dealing with the transition from classical physics to modern quantum physics. 3 hours lecture per week.
Prerequisite: Physics 212 and Math 312 or consent of instructor.
- PHY411 Quantum Mechanics (5) ii (even numbered years)**
Introduction to formal quantum mechanics; Schrodinger equation and introductory Heisenberg formulation. Laboratory in modern physics techniques. 3 hours lecture, 3 hours laboratory.
Prerequisite: Physics 310.

SAMPLE PROGRAM B.S. in Computer Science

Fall Semester		Spring Semester	
CSC 182	Intro. to Data Processing .....3	CSC 188	Intro. to FORTRAN IV Programming .....3
MAT 107	Calculus I .....5	MAT 108	Calculus II .....5
ENG 104	Composition & Rhetoric I .....3	MAT 201	Elementary Statistics .....3
	Natural Science Elective .....5	ENG 108	Composition & Rhetoric II .....3
	16	HIS 140, 150 or 101	Am. Hist. or Am. Nat'l. Govt. ....3
			17
Sophomore Year		Junior Year	
CSC 384	Symbolic Assembler Language I .....3	CSC 286	Computer & Programming Systems .....3
CSC 240	Intro to RPG Programming .....3	CSC 245	Intro to COBOL Programming .....3
MAT 209	Calculus III .....5	MAT 312	Differential Equations .....3
	Natural Science Elective .....4		Elective .....4
PED 101	P.E. Concepts .....1		Speech Elective .....3
	16		P.E. Activity .....1
			16
Senior Year		Senior Year	
MAT 305	Matrix Theory .....3		Computer Science Elective .....3
	Computer Science Elective .....3		Psychology .....3
	Economics .....3	HUM205	Humanities II .....3
HUM203	Humanities I .....3		Electives .....6
	Elective .....3		P.E. Activity .....1
	P.E. Activity .....1		12
	16		
CSC 410	Programming Numerical Met. or Num. Anal. ....3		Computer Science Elective .....3
	Social Science Elective .....3		Humanities or Fine Arts Elective .....3
	Electives .....9		Electives .....6
	15		12

SAMPLE PROGRAM B.S. in Mathematics

Freshman Year

Fall Semester			Spring Semester		
MAT 107	Calculus I .....	.5	MAT 108	Calculus II .....	.5
	Natural Science Elective .....	.5	PHY 210	University Physics I .....	.5
ENG 104	Composition & Rhetoric I .....	.3	ENG 108	Composition & Rhetoric II .....	.3
	Speech Elective .....	.3	HIS 140, 150 or 101	Am. Hist. or Am. Nat'l. Govt. ....	.3
		<hr/>			<hr/>
		16			16

Sophomore Year

MAT 209	Calculus III	5	MAT 312	Differential Equations	3
MAT 101	Foundations of Mathematics	3	PHY 212	University Physics III	3
PHY 211	University Physics II	4	CSC 182	Intro to Data Processing	3
	Economics	3		Social Science Elective	3
PED 101	P.E. Concepts	1		Elective	3
		16		P.E. Activity	1
					16

Junior Year

	Advanced Math Elective	3		Advanced Math Electives	6
CSC 188	Intro to FORTRAN IV Programming	3		Humanities or Fine Arts Elective	3
	Psychology	3	HUM205	Humanities II	3
HUM203	Humanities I	3		Elective	3
	Elective	3		P.E. Activity	1
	P.E. Activity	1			16
		16			

Senior Year

	Advanced Math Electives	6		Advanced Math Elective	3
	Electives	9		Electives	12
		15			15

SAMPLE PROGRAM B.A. in Mathematics

Freshman Year

Fall Semester			Spring Semester		
MAT 107	Calculus I	.5	MAT 108	Calculus II	.5
	Natural Science Elective	.5	PHY 210	University Physics I	.5
ENG 104	Composition & Rhetoric I	.3	ENG 108	Composition & Rhetoric II	.3
	Speech Elective	.3	HIS 140, 150 or 101	Am. Hist. or Am. Nat'l. Govt.	.3
		<u>16</u>			<u>16</u>

Sophomore Year

MAT 209	Calculus III	5	MAT 312	Differential Equations	3
MAT 101	Foundations of Math	3	PHY 212	University Physics III	3
PHY 211	University Physics II	4		Economics	3
	Foreign Language	3		Foreign Language	3
PED 101	P.E. Concepts	1		Social Science Elective	3
		16		P.E. Activity	1
					16

Junior Year

	Advanced Math Elective	3		Advanced Math Electives	6
	Foreign Language	3		Foreign Language	3
HUM203	Humanities I	3	HUM205	Humanities II	3
	Psychology	3		Humanities or Fine Arts Elective	3
	Elective	3		P.E. Activity	1
	P.E. Activity	1			16
		16			

Senior Year

	Advanced Math Elective	3		Advanced Math Elective	3
	Economics	3		Electives	12
	Electives	9			15
		15			

SAMPLE PROGRAM
B. S. in Education
Major in Mathematics

Freshman Year

First Semester			Second Semester		
MAT 107	Calculus I	5	MAT 108	Calculus II	5
ENG 104	Composition & Rhetoric I	3	ENG 108	Composition & Rhetoric II	3
	Speech Elective	3		Natural Science Elective	4
	Natural Science Elective	5		Economics	3
		<hr/> 16			<hr/> 15

Sophomore Year

MAT 209	Calculus III	5	MAT 315	Topics in Geometry	3
MAT 101	Foundations of Math	3		Advanced Math Elective	3
HIS 140, 150 or 101	Am. Hist. or Am. Nat'l. Govt.	3		Social Science Elective	3
	Psychology	3		Elective	3
PED 101	P.E. Concepts	1		P.E. Activity	1
		15	SED 202	Intro. to Sec. Ed.	2
			SED 203	Part. in Sec. Teaching I	1
					16

Junior Year

	Advanced Math Elective	3	MAT 316	Modern Algebra	3
HUM203	Humanities I	3	HUM205	Humanities II	3
	Education Elective	2	SED 303	Experience in Sec. Teaching II	3
	Electives	6	SED 304	Psychology in Sec. Teaching	4
	P.E. Activity	1		Elective	3
		15		P.E. Activity	1
					17

Senior Year

	Advanced Mathematics Elective	3	MAT 465	Math Teaching: Methods & Materials	2
MAT-470	Seminar in Mathematics	1	SED 404	Foundations in Sec. Ed.	3
	Humanities or Fine Arts Elective	3	SED 407	Ed. of the Ex. Student	2
	Electives	9	SED 409	Sec. Stu. Teaching III	9
		16			16

SAMPLE PROGRAM
B.S. in Data Processing

Freshman Year

First Semester			Second Semester		
CSC 182	Intro to Data Processing	3	CSC 188	Intro. to FORTRAN IV Programming	3
MAT 103	or 105 Intermediate or College Algebra	3	MAT 201	or 210 Elem. Stat. or Bus. Stat	3
ENG 104	Composition & Rhetoric I	3	ENG 108	Composition & Rhetoric II	3
	Speech Elective	3	HIS 140,	150 or 101 Am. Hist. or Am. Nat'l. Govt.	3
	Natural Science Elective	4		Natural Science Elective	5
		<hr/> 16			<hr/> 17

Sophomore Year

CSC 284	Symbolic Assembler Language I	3	CSC 286	Computer & Programming Systems	3
CSC 240	Intro to RPG Programming	3	CSC 245	Intro. to COBOL Programming	3
	Economics	3		Social Science Elective	3
	Related Area Elective	3		Related Area Elective	3
	Elective	3		Elective	3
PED 101	P.E. Concepts	1		P.E. Activity	1
		16			16

Junior Year

	Computer Science Elective	3		Computer Science Elective	3
	Psychology	3		Humanities or Fine Arts Elective	3
HUM203	Humanities I	3	HUM205	Humanities II	3
	Related Area Elective	3		Related Area Elective	3
	Elective	3		Elective	3
	P.E. Activity	1		P.E. Activity	1
		16			16

Senior Year

	Computer Science Elective	3		Computer Science Elective	3
	Related Area Electives	6		Related Area Elective	3
	Electives	6		Electives	9
		15			15

SAMPLE PROGRAM **A.S. in Data Processing**

Freshman Year

Fall Semester

CSC 182	Intro. to Data Processing	3
MAT 103	Intermediate Algebra	3
ENG 104	Composition & Rhetoric I	3
SPH 104	Oral Communication	3
	Related Area Elective	3
	P.E. Activity	1
	16	

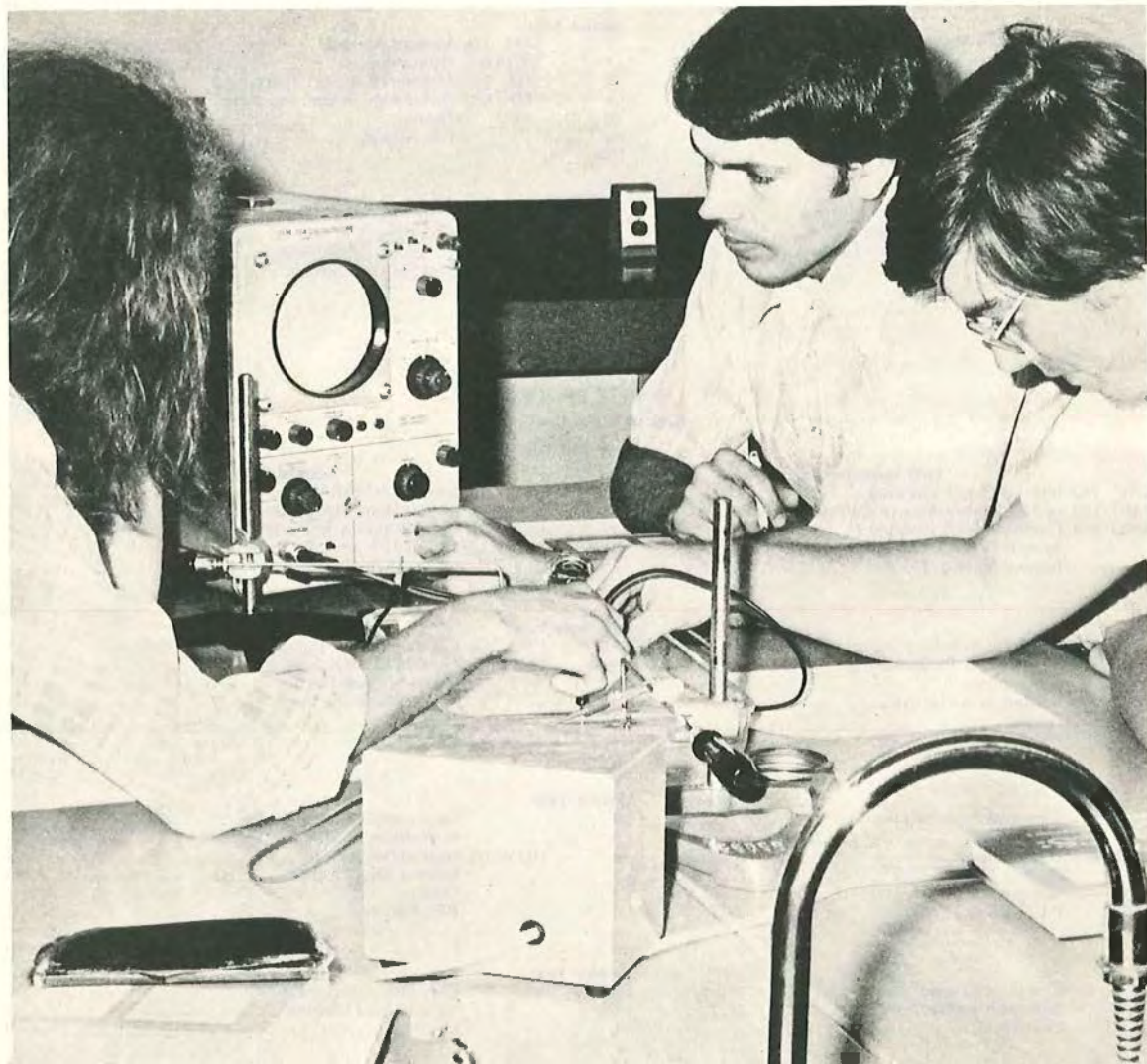
Spring Semester

CSC 188	Intro. to FORTRAN IV Programming	3
MGT 201	Elementary Statistics or Business Statistics	3
HIS 140,	150, or 101 Am. Hist. or Am. Nat'l. Govt	3
	Humanities Elective	3
	Related Area Elective	3
	P.E. Activity	1
	16	

Sophomore Year

CSC 284	Symbolic Assembler Language	3
CSC 240	Intro. to RPG Programming	3
	Related Area Electives	6
	Elective	3
	15	

CSC 286	Computer & Programming Systems	3
CSC 245	Intro. to COBOL Programming	3
	Related Area Elective	3
PED 192	Personal & Community Health	2
	Electives	6
	17	



department of

SOCIAL SCIENCE

The social sciences study human societies to understand their history, their components, their varieties, and their behavior. These sciences study the changes, organization, and disorganization of societies. In addition, they examine the varieties of people in society, their character and conduct, and the evidences of their "human nature." Students in the Department of Social Science generally prepare for careers in teaching, government, law, and social work.

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in History

Courses in History must total 30 credit hours, with an additional 24 credit hours required in supporting areas. The following specific courses are required: History 100, 110, 140, 150, 200, 330 or 340, plus 12 additional credit hours in History, including 9 credit hours numbered 300 or higher; Political Science 101, 110, plus 3 additional credit hours in Political Science; Sociology 110 plus 3 additional credit hours in Sociology; Geography 100; Economics 260; Social Science (other than history) 3 credit hours.

Major in Political Science

Courses in Political Science must total 30 credit hours, with an additional 24 credit hours required in supporting areas. The following specific courses are required: Political Science 101, 110, 200, 210, 310, 320 plus 12 additional credit hours in Political Science courses numbered 300 or higher; History 100, 110, 140, 150; Sociology 110 plus 3 additional credit hours in Sociology, Geography 100, Economics 260.

Major in Sociology

Courses in Sociology must total 30 credit hours, with an additional 24 credit hours required in supporting areas. The following specific courses are required: Sociology 110, 120, 230, 310, 440 460, plus 12 additional credit hours in Sociology, including 9 credit hours numbered 300 or higher; History 100 or 110, 140 and 150; Political Science 101, 110, 320 or 330; Geography 100, Economics 260, Mathematics 201.

Major in Social Work

Courses in Social Work must total 21 credit hours. The following specific courses are required: Psychology 101, 309, 325, Sociology 110, 230, 330, plus an additional 3 credit hours selected from Sociology courses numbered above 300; Political Science 101, 110, 330 or Soc. 320; Economics 260 and 261; Management 412; Social Work 250, 310, 320, 330, 410, 430, 460.

BACHELOR OF SCIENCE

Major in History

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the student's major advisor.

Major in Political Science

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the student's major advisor.

Major in Sociology

The requirements for the BS are the same as the requirements for the BA except that the foreign language requirement is replaced by an 18 credit hour minor. The course work for this minor area should be worked out with the student's major advisor.

BACHELOR OF SOCIAL WORK

Courses in Social Work must total 27 credit hours. The following specific courses are required: Psychology 101, 309, 325; Sociology 110, 230, 330, plus an additional 3 credit hours selected from Sociology courses numbered above 300; Political Science 101, 110, 330 or Soc. 320; Economics 260 and 261; Management 412; Social Work 250, 310, 320, 330, 410, 430, 460, 470, 490.

BACHELOR OF SCIENCE IN EDUCATION

Major in Social Science (History Emphasis)

A major in Social Science consists of 48 credit hours. A History emphasis consists of 24 credit hours. The following specific courses are required: History 100, 110, 140, 150, 200, 330 or 340; plus an additional 6 credit hours selected from History courses numbered 300 or above; Political Science 101 and 110; Geography 100; Economics 260; Sociology 110; and Social Science 465.

Major in Social Science (Political Science Emphasis)

A major in Social Science consists of 48 credit hours. A political science emphasis consists of 24 credit hours. The following specific courses are required: Political Science 101, 110, 200 or 210, 310, 320, plus an additional 9 credit hours selected from political science courses numbered 300 or above; History 100 or 110, 140, 150; Geography 100; Economics 260; Sociology 110; and Social Science 465.

Major in Social Science (Sociology Emphasis)

A major in Social Science consists of 48 credit hours. A Sociology emphasis consists of 24 credit hours. The following specific courses are required: Sociology 110, 120, 230, 310, 440, plus an additional 9 credit hours selected from sociology courses numbered 300 or above; History 100, 110, 140, 150; Political Science 101 and 110; Geography 100; Economics 260 and Social Science 465.

GEOGRAPHY

GEO100 World Geography (3) i, ii, iii

An introductory course which emphasizes the interrelationships between man and the natural environment.

GEO210 Geography of the United States and Canada (3) i (even numbered years)

A regional study of the Physical, cultural, and economic geography of the United States and Canada.

Prerequisite: A course in geography.

GEO220 Map Evaluation & Interpretation (3) ii (odd numbered years)

General purpose and thematic maps of various scales; use in teaching and research. Uses and abuses of maps with a minimum of map drafting.

GEO320 Geography of Europe (3) i (odd numbered years)

The nations and regions of Europe west of the Soviet Union, with present economics as a result of cultural and physical differences in the environment; trends of development as affected by new political and economic factors.

GEO330 Economic Geography (3) ii (even numbered years)

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.

HIS140 American History to 1865 (3) i, ii, iii

The discovery of America to the end of Civil War; Colonial America, the Revolution, National Development, Sectionalism, and the Civil War.

HIS150 American History Since 1865 (3) i, ii, iii

Continuation of History 140; Reconstruction, Industrialization, Urbanization, emergence as a world power, Progressivism, World War I, the New Deal, World War II, and Post-war America.

HIS200 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.

HIS220 History of Missouri (3) ii (even numbered years)

Missouri under French and Spanish rule, the American acquisition, the role of the state in the slavery crisis and in the settlement of the West; study of the state's contributions to politics, art, literature, education, industry, and transportation.

HIS230 History of the American Negro (3) ii (even numbered years)

Colonial origins of Negro slavery, the Old South and slavery; Negro contributions to American culture; Negro leadership from Douglass to the present; the influence of the Negro on American politics from the writing of the Constitution to the modern civil rights legislation.

HIS300 American Colonial History (3) ii

The founding of the British North American colonies; origins of American cultural, religious, and racial diversity; British colonial administration to the Revolution.

Prerequisite: Six hours of American History.

HIS305 The American Frontier (3) ii

Westward expansion of the United States over three centuries: colonial frontier, trans-Appalachian frontier, trans-Mississippi frontier; significance of the frontier in American history.

Prerequisite: Six hours of American History.

HISTORY

HIS100 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.

HIS110 Modern Civilization (3) i, ii, iii

The Western World from 1500 to 1815; national states, the geographical revolution and the founding of European Empires, the Reformation, the emergence of constitutional governments, the Scientific Revolution, and the American and French Revolutions.

- HIS310 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.
- HIS320 English History II (3) ii (odd numbered years)**
The founding of the British Empire, and the role of England in the modern world.
- HIS330 Recent United States History (3) i**
The United States since World War I, with emphasis on current problems.
Prerequisite: History 140 and 150 or consent of instructor.
- HIS340 Recent European History (3) ii**
Europe in World War I, the rise of dictatorships, the League of Nations, new alignments, World War II and the post war period.
Prerequisite: History 200.
- HIS350 History of the Far East (3) i (odd numbered years on demand)**
East Asia and the Pacific from antiquity to the present; Oriental religion, politics, and the economy; impact of European and American traders and missionaries, the founding of the European Empires, Oriental resistance to Westernization, and the emergence of modern China, Japan, and Pacific nations.
Prerequisite: History 110 or 200.
- HIS360 The British Empire (3) i (odd numbered years)**
The Age of Discovery and the founding of the old British Empire, the Empire after the American Revolution, the Commonwealth of Nations, and the decline of Empire after 1945.
Prerequisite: History 310 or 320.
- HIS370 History of Latin America (3) ii**
A survey course including Indian cultures, colonial period, independence movements, national developments, relations with the United States and Europe.
- HIS380 The French Revolution and Napoleon (3) iii (on demand)**
The Old Regime in France, failure of the Bourbon monarchy, the Revolution, the rise of Napoleon, the Napoleonic Wars to the Congress of Vienna 1815.
Prerequisite: Six hours of European History.
- HIS400 Civil War and Reconstruction (3) i**
Sectionalism in anti-bellum America; developing sectional crisis and coming of the Civil War; effects of the war and reconstruction on the nation.
Prerequisite: Six hours American History.
- HIS410 English Legal and Constitutional History (3) ii (on demand) (even numbered years)**
Magna Carta to the twentieth century; the Petition of Rights, the Puritan Revolution, the Glorious Revolution, the Bill of Rights and the Act of Secession, the development of cabinet government, the Reform Bills of 1832 and 1867, the Budget Act of 1911, the Statue of Westminster.
Prerequisite: History 110 and 310.
- HIS420 History of Africa (3) ii (even numbered years)**
North Africa in the ancient world, Africa during the Age of Geographical Discoveries, 19th century European imperialism, the emergence of modern African states and their problems.
Prerequisite: Six hours European history.
- HIS430 European Intellectual History (3) i (odd numbered years)**
Greek and Roman contributions, the Church Fathers, the Carolingian, Ottonian, and Twelfth Century Renaissance,

Italian and Northern Humanism, the Age of Reason, Romanticism, and modern European thought.
Prerequisite: Six hours of European History.

- HIS450 Independent Study in History (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- HIS460 American Economic History (3) iii (odd numbered years)**
English mercantilism, laissez-faire and its effect on American economic development, the emergence of the corporation and the trust, the issue of government regulation, and the role of government in the economy of today.
Prerequisite: Six hours of American History.
- HIS470 American Social and Intellectual History (3) ii (on demand)**
Education, religious, intellectual, and artistic development from Colonial times; Puritanism, the Enlightenment, Transcendentalism, Realism.
Prerequisite: Six hours of American History.

POLITICAL SCIENCE

- PSC101 American National Government (3) i, ii, iii**
The American constitutional system; government finance, regulation of commerce, agriculture, labor, conservation of resources.
- PSC110 American State and Local Government (3) i, ii, iii**
State and local government and its colonial and revolutionary origins; state constitutions, legislatures, governors, courts, state services and functions, and problems in twentieth century America.
Prerequisite: Political Science 101.
- PSC200 International Politics (3) i, ii**
The nature of politics at the international level, the national state system, state capabilities, foreign policy objectives, formulation and execution, international organizations, alignments, and contemporary world tensions.
Prerequisite: Political Science 101.
- PSC210 Comparative Political Systems (3) ii**
The internal politics of foreign political systems: structural-functional analysis, General Systems Theory; third world systems compared and contrasted with model European systems.
Prerequisite: Political Science 101.
- PSC300 Political Parties and Interest Groups (3) ii (even numbered years)**
The evolution of the American two-party system. The place of the interest group in decision-making through interaction with executive and legislative branches.
Prerequisite: Six hours of political science.
- PSC310 Political Theory (3) i**
Political theories of the Ancients, Aristotle and Plato; the Church Fathers; Renaissance thought of Machiavelli and More; the Age of Enlightenment and Locke, Montesquieu, and Jefferson; the theories of Marx, Welfare State ideas of Roosevelt; the theories of Fascism and Nazism.
Prerequisite: Political Science 101.
- PSC320 Public Administration (3) ii**
Organization, functions, and problems of public administration in the United States.
Prerequisite: Six hours of political science.

PSC330 Municipal Government (3) i (odd numbered years)
The growth of cities, their legal status, municipal politics and elections, forms of city government, municipal services and functions.
Prerequisite: Six hours of Political Science.

PSC340 Latin American Political Systems (3) i (even numbered years)
A comparative approach to Latin American political institutions with a view towards causes for political instability; revolution, the new military, Socialism v. Communism, and economic development and U.S. policy.
Prerequisite: 6 hours of Political Science.

PSC400 American Foreign Policy (3) ii (odd numbered years)
Policy-making, the role of the public in decisions, formulation and implementation of national policy, U.S. policy goals in various areas of the world, decision-making in crisis situations.
Prerequisite: Political Science 101 and 200.

PSC410 The Legislative Process (3) ii (odd numbered years)
The American Congress, its organization, its rules, its role in the law making; the role of interest groups, congressional investigations, and the modern Presidency in the legislative process.
Prerequisite: Six hours of political science.

PSC420 Constitutional Law (3) i (odd numbered years)
The role of the Supreme Court in the American system; judicial review and its significance under Marshall, Fuller, Taft, Hughes, and Warren; majority and minority opinions; the process of decision making.
Prerequisite: Six hours of political science.

PSC430 The American Presidency (3) ii (even numbered years)
The place of the President in decision-making in the American federal system. His constitutional roles, the legal and extra-legal checks on presidential power.
Prerequisite: Six hours of political science.

PSC440 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: Political Science 101 and 200.

PSC450 Independent Study in Political Science (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

SOCIAL SCIENCE

SSC465 Methods of Teaching the Social Studies (2) i
Principles and methods of teaching the Social Studies in the secondary school. An in-depth study of current objectives, problems, materials, and methods as applied to each discipline within the social studies curriculum.

SOCIAL WORK

SWK250 Social Problems and Social Change (3) i, ii
Social problems and issues; social welfare policies, programs, and institutions; their functions in society.
Prerequisite: 3 credit hours Social Science.

SWK310 Social Work: A Profession (3) i
The profession of social work, its values, and its view in approaching problems; social work methods and settings; approaches and innovations within the profession and the function of the individual social worker.
Prerequisite: Social Work 250 or consent of instructor.

SWK320 Philosophy and Policy in Social Services (3) ii
Historical significance of social legislation, its impact on the individual and society; social philosophy, social service, and social change.
Prerequisite: Social Work 310.

SWK330 Human Growth and Development (3) i
Social work concepts of human growth and development in all stages of the life cycle from conception to death: normal physical and emotional growth patterns; assisting people with problems in growth and development.

SWK410 Tools of Social Intervention (3) i
Methods used by social workers in attempting to solve social problems.
Prerequisite: Social Work 320.

SWK450 Independent Study in Social Work (1-5) i, ii, iii
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.

SWK460 Practicum in Social Work (3-6) i, ii, iii
Field experience in social work among various social welfare agencies. Practicum experience may be fulfilled in either of two ways. (1) two semesters of practicum with 11 hrs. per week in an agency. (2) one semester of practicum with 22 hrs. per week in an agency.
Prerequisite: 6 cr. hrs. of social work and consent of instructor.

SWK470 Seminar in Social Welfare (3) ii
Major trends in social welfare and policy; in depth investigation of an area of interest to the student especially relative to tools of social intervention.
Prerequisite: Social Work 410.

SWK490 Research in Social Work (3) ii
Evaluation and utilization of social science research; research methods and experimental design.
Prerequisite: Consent of instructor.

SOCIOLOGY

SOC110 General Sociology (3) i, ii, iii
Sociological concepts: social organization, human interaction with individuals and groups, population, and social change.

SOC120 Cultural Anthropology (3) i, ii, iii
The nature of culture, language, society, and personality with emphasis on the cultural forms, processes, evolution and change.

SOC200 Physical Anthropology (3) ii
The living races of man, the growth and differentiation of the cultures of man from their origins to the development of civilizations.

SOC230 Social Institutions (3) i, ii
The structure of human society; social stratification, and the familial, religious, and educational institutions.
Prerequisite: Sociology 110.

- SOC310 Social Deviation (3) i, ii, iii**
Individual and social disorganization; delinquency, alcoholism, minority groups, discrimination; and marital conflict.
Prerequisite: Sociology 110 and 230.
- SOC320 Urban Sociology (3) ii**
The modern city and metropolitan area, ecological and demographic aspects; urban problems and programs of action.
Prerequisite: Six hours of sociology.
- SOC330 The Family (3) i, ii, iii**
The family as a basic institution; the structure and functions of the modern family in a changing urban environment.
Prerequisite: Six hours of sociology.
- SOC340 Personality and Culture (3) i**
The inter-relationships of society, culture, personality.
Prerequisite: Sociology 110, 120.
- SOC400 Ethnic and Race Relations (3) i**
Inter-racial and inter-cultural relations in various cultures; Minority groups in the United States; conflict, accommodation, and assimilation.
Prerequisite: Six hours of sociology.
- SOC410 Dynamics of Population (3) i**
National and international population characteristics, trends, and problems. Factors in birth and death rates and in migration.
Prerequisite: Six hours of sociology.

- SOC420 Collective Behavior (3) ii**
Analysis of collective phenomena, propaganda, crowds, public opinion polls, pressure groups, and social movement.
Prerequisite: Six hours of sociology.
- SOC430 Criminology (3) i**
Theories of criminal behavior, legal concepts, criminal statistics, corrective treatment, and crime control.
Prerequisite: Sociology 110, 230, 310.
- SOC440 Sociological Theory (3) i**
Historical and empirical treatment of the development, structure, and functioning of human social systems.
Prerequisite: Twelve hours of sociology.
- SOC450 Independent Study in Sociology (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- SOC460 Research Methods in Sociology (3) ii**
Ethical, epistemological and theoretical foundations of the research process; basic assumptions, derivation of hypotheses, techniques for empirically testing the validity of the propositional structure of sociological and anthropological theories.
Prerequisite: Mathematics 201 and 15 credit hours of Sociology, including Sociology 440.

SAMPLE PROGRAM

B.A. in History

Fall Semester			Freshman Year		Spring Semester	
ENG 104	English Comp. & Rhetoric I	.3	ENG 108	English Comp. & Rhetoric II	.3	
PSC 101	Amer. National Gov't.	.3	HIS 100	Ancient & Medieval Civilization	.3	
	Natural Science Elective	.5		Mathematics Elective	.3	
PED 101	Concepts of Phys. Educ.	.1	PSC 110	State & Local Gov't.	.3	
HIS 140	American History to 1865	.3	HIS 150	Amer. History since 1865	.3	
		—		P.E. Activity	.1	
		15			—	
					16	
			Sophomore Year			
GEO 100	World Geography	.3	SPA 110	Elementary Spanish II	.3	
SPA 102	Elementary Spanish I	.3		Natural Science Elective	.4	
	Communications Elective	.3		Humanities Elective	.3	
HIS 110	Modern Civilization	.3	ECO 260	Principles of Economics	.3	
SOC 110	General Sociology	.3		History Elective	.3	
	P.E. Activity	.1		P.E. Activity	.1	
		—			—	
		16			17	
			Junior Year			
SOC 230	Social Institutions	.3	PSC 210	Comparative Pol. Systems	.3	
HIS 200	European History (1815-1914)	.3	SPA 212	Spanish Conv. & Comp.	.3	
SPA 202	Intermediate Spanish	.3		Social Science Elective	.3	
	Social Science Elective	.3		History Elective	.3	
	History Elective	.3		History Elective	.3	
		—			—	
		15			15	
			Senior Year			
	Free Elective	.3		Humanities Electives	.3	
	History Elective	.3		Free Elective	.3	
	Political Science Elective	.3		Free Elective	.3	
	Humanities Elective	.3		History Elective	.3	
	History Elective	.3		History Elective	.3	
		—			—	
		15			15	

SAMPLE PROGRAM

B.S. in History

Fall Semester		Freshman Year		Spring Semester	
ENG 104	English Composition	3	ENG 108	English Composition	3
PSC 101	Amer. National Gov't	3	HIS 100	Ancient & Medieval Civ.	3
	Natural Science Elective	5		Mathematics Elective	3
PED 101	Concepts of Phys. Educ.	1	PSC 110	State & Local Gov't	3
HIS 140	American History to 1865	3	HIS 150	American History since 1865	3
		15		P.E. Activity	1
					16
		Sophomore Year			
GEO 100	World Geography	3	PSY 101	General Psychology	3
	Communications Elective	3		Natural Science Elective	4
HIS 110	Modern Civilization	3		Humanities Elective	3
SOC 110	General Sociology	3	ECO 260	Principles of Economics	3
HIS 200	European History (1815-1914)	3		History Elective	3
	P.E. Activity	1			16
		16			
		Junior Year			
SOC 230	Social Institutions	3	PSC 210	Comparative Polit. Systems	3
	Free Elective	3		Social Science Elective	3
	Humanities Elective	3		History Elective	3
	History Elective	3	HIS 340	Recently European History	3
HIS 330	Recent U.S. History	3		History Elective	3
	P.E. Activity	1			15
		16			
		Senior Year			
	Humanities Elective	3		Free Elective	3
	Political Science Elective	3		Free Elective	3
	History Elective	3		Free Elective	3
	Free Elective	3		History Elective	3
	History Elective	3		History Elective	3
		15			15

SAMPLE PROGRAM

B.S. in Education—History Emphasis

Fall Semester		Freshman Year		Spring Semester	
ENG 104	English Composition	3	ENG 108	English Composition	3
HIS 100	Anc. & Medieval Civ.	3	PSY 101	General Psychology	3
GEO 100	World Geography	3	HIS 110	Modern Civilization	3
PSC 101	American Nat'l. Gov't.	3	HIS 140	American History to 1865	3
	Mathematics Elective	3		Humanities Elective	3
PED 101	Concepts of P.E.	1		P.E. Activity	1
		16			16
		Sophomore Year			
	Natural Science Elective	5	SOC 110	General Sociology	3
PSC 110	State & Local Gov't.	3		Natural Science Elective	4
HIS 150	American Hist. since 1865	3		History Elective	3
HIS 200	Europe 1815-1914	3	SED 331	Audio-Visual Education	3
	History Elective	3		P.E. Activity	1
		17	SED 202	Intro. to Sec. Ed.	2
			SED 203	Part. in Sec. Teaching I	1
					17
		Junior			
	Social Science Elective	3		Communications Elective	3
SED 303	Experience in Sec. Teaching II	3	ECO 260	Principles of Economics	3
SED 304	Psych. in Sec. Teaching	4		History Elective	3
HIS 330	Recent U.S. History	3		History Elective	3
SSC 465	Methods of Teaching S.S.	2		Humanities Elective	3
	P.E. Activity	1			15
		16			
		Senior Year			
	Humanities Elective	3	SED 404	Foundations in Sec. Ed.	3
	Free Elective	3	SED 407	Ed. of the Ex. Student	2
	History Elective	3	SED 409	Sec. Stu. Teaching III	9
	History Elective	3			14
SED 422	Behavior Mod. in the Classroom	2			
HIS 430	Recent European History	3			
		17			

**SAMPLE PROGRAM
B.A. in Political Science
Freshman Year**

Fall Semester		Spring Semester	
ENG 104	Eng. Comp. & Rhetoric I	ENG 108	Comp. & Rhetoric II
PSC 101	Amer. Nat'l. Gov't.		Mathematics elective
PED 101	Concepts of Physical Ed.	PSC 110	State and Local Gov't
	Natural Sci. elective	FRE 112	Elementary French II
FRE 102	Elementary French I	HIS 140	Amer. History to 1865
			P.E. Activity
	15		16
Sophomore Year			
HIS 100	Ancient & Medieval Civ.	HIS 110	Modern Civilization
HIS 150	Amer. History Since 1865	PSC 210	Comparative Pol. Systems
PSC 200	International Politics	FRE 212	Intermediate French II
FRE 202	Intermediate French I		Humanities elective
	Natural Sci. elective		Pol. Sci. elective
	4		P.E. Activity
	16		16
Junior Year			
SOC 110	General Sociology	GEO 100	World Geography
	Humanities elective	PSC 320	Public Administration
PSC 310	Political Theory		Political Sci. electives
ECO 260	Principles of Econ.		P.E. Activity
	Pol. Science elective		History elective
	3		3
	15		16
Senior Year			
SOC 230	Social Institutions		Humanities elective
	Pol. Science electives		Soc. Science elective
	Free elective		History elective
	History elective		Free elective
	3		Pol. Science elective
	15		15

**SAMPLE PROGRAM
B.S. in Political Science
Freshman Year**

Fall Semester		Spring Semester	
ENG 104	Eng. Comp. & Rhetoric I	ENG 108	English Comp. & Rhet. II
PSC 101	Amer. Nat'l. Gov't.		Mathematics elective
	Natural Sci. elective	PSC 110	State & Local Gov't
PED 101	Concepts of Phys. Ed.	HIS 140	Amer. Hist. to 1865
	Communications elective		Humanities elective
	3		P.E. Activity
	15		16
Sophomore Year			
HIS 100	Ancient & Medieval Civ.	HIS 110	Modern Civilization
HIS 150	American His. since 1865		Pol. Science elective
PSC 200	International Politics	PSC 210	Comparative Pol. Systems
ECO 260	Principles of Eco.		Coursework in Minor
	Natural Sci. elective		P.E. Activity
	4		1
	16		16
Junior Year			
SOC 110	General Sociology	GEO 100	World Geography
	Humanities elective		History elective
PSC 310	Political Theory		Political Sci. electives
	History elective		P.E. Activity
	Pol. Science elective		Coursework in Minor
	3		3
	15		16
Senior Year			
SOC 230	Social Institutions		Coursework in Minor
	Pol. Science electives		Political Sci. elective
	Coursework in minor		History electives
	Free elective		
	3		6
	15		15

SAMPLE PROGRAM B.S. in Education-Political Science Emphasis

Fall Semester			Spring Semester		
ENG 104	English Comp. & Rhetoric I	.3	ENG 108	English Comp. & Rhetoric II	.3
GEO 100	World Geography	.3	PSY 101	General Psychology	.3
HIS 100	Ancient & Medieval Civ.	.3	PSC 110	Amer. State & Local Govt.	.3
	Mathematics Elective	.3	HIS 140	American Hist. to 1865	.3
PSC 101	American Natl. Government	.3	SOC 110	General Sociology	.3
PED 101	Concepts of Phys. Educ.	.1		P.E. Activity	.1
		16			16
Sophomore Year					
	Natural Sci. elective	.5	HIS 110	Modern Civilization	.3
PSC 200	International Politics	.3		Natural Sci. elective	.4
	P.E. Activity	.1	PSC 210	Comparative Pol. Systems	.3
SED 202	Intro. to Sec. Ed.	.2	ECO 260	Principles of Economics	.3
SED 203	Part. in Sec. Teach. I	.1		P.E. Activity	.1
	Pol. Sci. elective	.3		Pol. Sci. elective	.3
		15			17
Junior Year					
GEO 100	World Geography	.3	HIS 150	Amer. Hist. since 1865	.3
	P.E. Activity	.1	SED 303	Experience in Teach. II	.3
PSC 310	Political Theory	.3	SED 304	Psychology in Teach.	.4
SSC 465	Methods of Teaching S.S.	.2	PSC 320	Public Administration	.3
	Pol. Sci. electives	.6		Pol. Science elective	.3
		15			16
Senior Year					
	Pol. Sci. electives	.6	SED 404	Foundations in Sec. Ed.	.3
	Communications electives	.3	SED 407	Ed. of the Ex. Student	.2
	Humanities electives	.6	SED 409	Sec. Stu. Teaching III	.9
		15			14

SAMPLE PROGRAM B.A. in Sociology

Fall Semester			Spring Semester		
ENG 104	English Comp. & Rhetoric I	.3	ENG 108	English Comp. & Rhetoric II	.3
	Natural Science Elective	.5	HIS 100	Ancient & Medieval Civ.	.3
PED 101	Concepts of Phys. Educ.	.1		Humanities Elective	.3
FRE 102	Elementary French I	.3	FRE 112	Elementary French II	.3
	General Sociology	.3	SOC 120	Cultural Anthropology	.3
		15		P.E. Activity	.1
		16			16
Sophomore Year					
PSC 101	American Natl. Gov.	.3	GEO 100	World Geography	.3
SOC 200	Physical Anthropology	.3		Mathematics Elective	.3
FRE 202	Intermediate French I	.3		Humanities Elective	.3
	Natural Science Elective	.4	FRE 210	Intermediate French II	.3
SOC 230	Social Institutions	.3	ECO 260	Principles of Economics	.3
	P.E. Activity	.1		P.E. Activity	.1
		17			16
Junior Year					
PSC 110	State & Local Govt.	.3	HIS 140	American Hist. to 1865	.3
	Humanities Elective	.3		Foreign Language Elective	.3
HUM 210	Intro. to Philosophy	.3	PSC 320	Public Administration	.3
SOC 340	Personality & Culture	.3	SOC 320	Urban Sociology	.3
	Sociology Elective	.3	SOC 330	The Family	.3
		15			15
Senior Year					
MAT 201	Elementary Statistics	.3		Free Elective	.3
HIS 150	American Hist. since 1865	.3		Free Elective	.3
SOC 310	Social Deviation	.3	PSY 401	Social Psychology	.3
	Sociology Elective	.3		Sociology Elective	.3
SOC 440	Sociological Theory	.3	SOC 460	Research Methods in Soc.	.3
		15			15

SAMPLE PROGRAM**B.S. in Sociology****Freshman Year****Fall Semester**

ENG 104	English Comp. & Rhetoric I	3
	Natural Science Elective	5
PED 101	Concepts of Phys. Educ.	1
	Communications Elective	3
SOC 110	General Sociology	3
		15

Spring Semester

ENG 108	English Composition	3
HIS 100	Ancient & Medieval Civ.	3
	Mathematics Elective	3
SOC 120	Cultural Anthropology	3
	Humanities Elective	3
	P.E. Activity	1
		16

Sophomore Year

HIS 140	American Hist. to 1865	3
	Humanities Elective	3
	Natural Science Elective	4
SOC 230	Social Institutions	3
ECO 260	Principles of Economics	3
		16

PSC 101	American Nat'l Government	3
HIS 110	Modern Civilization	3
	Free Elective	3
SOC 200	Physical Anthropology	3
	Humanities Elective	3
	P.E. Activity	1
		16

Junior Year

PSC 110	American State & Local Government	3
MAT 201	Elementary Statistics	3
SOC 310	Social Deviation	3
	Sociology Elective	3
SOC 440	Sociological Theory	3
	P.E. Activity	1
		16

GEO 100	World Geography	3
HIS 150	American Hist. since 1865	3
PSC 320	Public Administration	3
	Sociology Elective	3
SOC 460	Research Methods in Sociology	3
		15

Senior Year

	Free Electives	3
	Free Elective	3
SOC 340	Personality & Culture	3
	Sociology Elective	3
	Sociology Elective	3
		15

	Free Elective	3
	Free Elective	3
	Free Elective	3
SOC 250	Social Prob. & Soc. Charge	3
	Sociology Elective	3
		15

**SAMPLE PROGRAM
B.S. in Education-Sociology Emphasis****Freshman Year****Fall Semester**

ENG 104	English Comp. & Rhet. I	3
GEO 100	World Geography	3
HIS 100	Ancient & Medieval Civ.	3
	Mathematics Elective	3
PED 101	Concepts of Phys. Ed.	1
SOC 110	General Sociology	3
		16

Spring Semester

ENG 108	English Comp. & Rhetoric II	3
PSY 101	General Psychology	3
	Communications Elective	3
HIS 110	Modern Civilization	3
SOC 120	Cultural Anthropology	3
	P.E. Activity	1
		16

Sophomore Year

	Natural Science Elective	3
	Humanities Elective	3
SOC 230	Social Institutions	3
SOC 260	Principles of Economics	3
	P.E. Activity	3
SED 202	Intro. to Sec. Ed.	2
SED 203	Part. in Sec. Teaching I	1
		16

SOC 110	General Sociology	3
SED 202	Participation in Teaching I	3
	Natural Science Elective	3
	History Elective	3
SED 331	Aucio-Visual Education	3
	P.E. Activity	1
		17

Junior Year

PSC 110	American St. & Local Gov.	3
MAT 201	Elementary Statistics	3
SOC 310	Social Deviation	3
SOC 440	Sociological Theory	3
SSC 465	Methods of Teaching the Social Studies	2
		14

HIS 150	American History Since 1865	3
SED 303	Experience in Sec. Teaching II	3
SED 304	Pshychology in Sec. Teaching	4
	Sociology Elective	3
SOC 460	Research Methods in Sociology	3
		16

Senior Year

HIS 140	American Hist. to 1865	3
	Sociology Electives	4
	Social Science Elective	3
SOC 400	Ethnic & Race Relations	3
SED 422	Behavior Modification in the Classroom	2
		15

SED 404	Foundations in Sec. Ed.	3
SED 407	Ed. of the Ex. Student	2
SED 409	Sec. Stu. Teaching III	9
		14

SAMPLE PROGRAM **Bachelor of Social Work**

Freshman Year

Fall Semester

ENG 104	English Comp. & Rhetoric I	3
	Natural Science Elective	5
	Humanities Elective	3
PSC 101	American National Gov't	3
PED 101	Concepts of Phys. Educ.	1
		15

Spring Semester

ENG 108	English Comp & Rhetoric II	3
	Mathematics Elective	3
	Communications Elective	3
SOC 110	General Sociology	3
	Humanities Elective	3
		15

Sophomore Year

PSY 101	General Psychology	3
	Humanities Elective	3
	Natural Science Elective	4
	Communications Elective	3
ECO 260	Principles of Economics I	3
		16

PSC 110	American State & Local Gov't	3
PSY 200	Intermediate Psychology	3
SOC 230	Social Institutions	3
SWK 250	Social Problems & Social Ch.	3
ECO 261	Principles of Economics II	3
	P.E. Activity	1
		16

Junior Year

PSY 304	Child Psychology	3
SOC 310	Social Work: A Profession	3
PSY 312	Psychology of the Exceptional Child	3
PSY 330	Human Growth and Develop	3
SOC 340	Personality & Culture	3
	P.E. Activity	1
		16

PSY 309	Abnormal Psychology	3
SOC 310	Social Deviation	3
SWK 320	Philosophy and Policy in Social Services	3
SOC 320	Urban Sociology or	3
PSC 330	Municipal Government	3
SOC 330	The Family	3
	P.E. Activity	1
		16

Senior Year

PSY 325	Psychology of Personality	3
SOC 400	Ethnic and Race Relations	3
PSY 405	Psych. of Communications	3
SWK 410	Tools of Social Intervention	3
SWK 430	Practicum in Social Work	3
		15

PSY 401	Social Psychology	3
MGT 412	Personnel Management	3
SWK 460	Practicum in Social Work	3
SWK 470	Seminar in Social Work	3
SWK 490	Research in Social Work	3
		15



department of

SPEECH, THEATRE, HUMANITIES

The Department of Speech, Theatre, Humanities comprises several diversified areas of knowledge and experience. The humanities center on the human being—his aspirations, his potentialities, his relationships with his fellow man—especially as they are reflected in literature, drama, philosophy, and religion. The department is concerned with communicative transactions between human beings—the expression, comprehension, and exchange of ideas through either oral or written discourse or artistic endeavor. It is through an understanding of these processes that a picture of the total human being emerges. Students in the department are introduced to many aspects of man's social and creative life thereby acquiring a substantial background for careers in numerous fields such as linguistics, law, politics, journalism, public relations, communications, teaching, and many others.

The Department of Speech, Theatre, Humanities offers majors in Speech and Theatre applicable to both the Bachelor of Arts and the Bachelor of Science in Education degrees. Moreover the department as a whole contributes to the general education of all students, the objective being to provide meaning to the term "humanities."

BACHELOR OF ARTS

(Requires 12 credit hours in a foreign language)

Major in Speech Communication

Courses in Speech must total 36 credit hours. The following specific courses are required: Speech 124, 305, 312, 314 or 344, 324, 334, 335, 475, plus 12 additional credit hours in Speech.

Major in Theatre

Courses in Theatre and related areas must total 39 credit hours. The following specific courses are required: Speech 124; Theatre 229, 249, 259, 318, 338, 457, 467, plus an additional 14 credit hours selected from theatre coursework, 9 hours of which must be numbered 300 or higher. 6 credit hours may be selected from non-theatre coursework, but must have departmental approval.

Minor in Speech Communication

Courses in speech must total 21 credit hours. The following specific courses are required: Speech 305 or 324, 312, 314 or 344, 334, 335, plus 6 additional credit hours in speech.

Minor in Theatre

Courses in theatre must total 20 credit hours. The following specific courses are required: Theatre 140, 218, 249 or 259, 338, 457 or 467, plus elective credits in theatre or departmentally approved coursework to total 6 credit hours, 3 credit hours of which must be numbered 300 or higher.

BACHELOR OF SCIENCE IN EDUCATION

Major in Speech and Theatre

Courses in Speech and Theatre must total 39 credit hours. The following specific courses are required: Speech 124, 305, or 324, 312, 314 or 344, 334, 465, plus an additional 3 credit hours in Speech; Theatre 218, 249, 318, 338, plus an additional 6 credit hours in Theatre, 3 credit hours of which must be numbered 300 or higher.

Minor in Speech and Theatre

Courses in Speech and Theatre must total 21 credit hours. The following specific courses are required: Speech 124, 305 or 324, 312 or 334, 465; Theatre 218, 249, 338.

SPEECH

- SPH104 Oral Communication (3) i, ii, iii**
Principles of speech as applied in meaningful participation in society. Not available for credit to students with previous or concurrent credit in either Speech 105 or 106.
- SPH105 Business and Professional Speech (3) i, ii**
Principles of speech directly applicable to the professions and business. Orientation toward formal presentations of speeches of various types, the conference, and interview techniques as forms of oral communications. Not available for credit to students with previous or concurrent credit in either Speech 104 or 106.
- SPH106 Public Speaking (3) i, ii, iii**
Analysis and application of concepts used in public speaking; informative and persuasive platform speeches. Not available for credit to students with previous or concurrent credit in either SPH 104 or 105.
- SPH124 Voice and Articulation (3) ii**
Theories and techniques of improving voice and articulation. Includes mastery of a working knowledge of phonetics.
- SPH210 Current Topics Forum (3) i, ii, iii**
Development of skills in oral communication by analysis of current controversial political, social, and economic issues. Emphasis upon the impact of speakers and movements on society.
Prerequisite: SPH 104, 105, or 106.
- SPH251 Laboratory Forensics (1) i, ii**
Participation in collegiate forensic activities including debate, oratory, manuscript reading, oral interpretation and extempore speaking. May be repeated for a maximum total of four credit hours.
- SPH305 Interpersonal Communication (3) i**
An analysis of communication interactions in relatively unstructured, person-to-person settings with application of interpersonal communication concepts to resolving problems emerging from human interactions.
- SPH312 Speech Composition (3) i**
Refinement of speech preparation and presentation; platform experience, extemporaneous and manuscript speeches for various occasions.
Prerequisite: Speech 104 or 105 or 106.
- SPH314 Persuasion (3) ii**
Persuasion as a process of influencing attitude and behavior; preparation and delivery of suasive discourse. Emphasis on experimental research as reflected on the persuasive process.
Prerequisite: Speech 104 or 105 or 106.
- SPH317 Speech for the Classroom Teacher (3) i (even numbered years)**
A basic analysis of speech formats for classroom instruction. Review of research concerning communication variables related to teaching performance. Experience in presenting oral reports, administering group discussion, conducting interviews, oral interpretation, storytelling, mini-lecture, and formal lecture.
- SPH324 Small Group Communication (3) ii**
Analysis of major concepts of small group communication. Emphasis upon the influence of group roles, leadership styles, group structure, thought processes, and consensus methods upon the outcome of small group communication behavior. Attention to the application of concepts to communication interaction in vocational and social group settings.
- SPH334 Argumentation and Debate (3) i**
Examination and application of philosophical and theoretical foundations of logic and argumentation to the persuasive process; experience in preparation and presentation through debate and discussion formats.
Prerequisite: Speech 104 or 105 or 106.
- SPH335 Speech Criticism (3) ii (odd numbered years)**
Theories of speech criticism; application of methods of criticism to analysis of contemporary public address.
Prerequisite: 9 semester hours of speech.
- SPH344 Parliamentary Procedure (3) ii (odd numbered years)**
Rules and regulations which govern oral communication in organized groups in America. Practice in implementation of parliamentary procedures.
Prerequisite: SPH 104, 105, 106 or consent of instructor.
- SPH410 Organizational Communication (3) ii (even numbered years)**
Analysis of concepts effecting communication patterns and behavior outcomes in social, political, religious, educational, and business organizations.
Prerequisite: SPH 305 or 324 or permission of instructor.
- SPH450 Independent Study in Speech (1-5) i, ii, iii**
Investigation of selected problems or topics on an individual conference basis.
Prerequisite: The student must: (1) have completed his 80 hour degree evaluation, (2) have obtained the consent of the department chairman, and (3) have earned a 2.5 grade point average in his major field of study.
- SPH465 Methods of Teaching Speech and Drama (2) i (even numbered years)**
Philosophies, issues, and problems in contemporary speech and drama education; analysis of content, structure, presentation; evaluation of teaching.
Prerequisite: Consent of instructor.

SPH475 Modern Theories of Rhetoric and Communication (3) i (odd numbered years)

Contemporary theories of rhetoric and communication with emphasis upon research; critical, historical, and experimental approaches to deriving and testing the validity of theories of rhetoric and communication.

THEATRE

THR113 Introduction to Theatre (3) i, ii, iii

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.

THR140 Production Participation (1-3) i, ii, iii

Forty hours of supervised practical work in any area of theatrical activity for each hour of credit. May be repeated for a maximum of six hours credit.

THR218 Oral Interpretation (3) i, ii

Oral reading and analysis of prose, poetry, and drama.

THR229 Stage Makeup (2) ii (even numbered years)

Techniques and materials involved in make up and hair styling as required by the various styles and periods of dramatic productions. 1 hr. lecture, 2 hrs. lab. (Student must furnish required assorted makeup accessories)

THR249 Stagecraft: Stages and Construction (4) i

Stages, staging techniques and construction in relation to theatrical production requirements. 3 hours lecture-demonstration, 4 hours lab.

THR259 Stagecraft: Staging and Lighting (4) ii

A continuation of Theatre 249; emphasizes the element of stagelighting as a production requirement. 3 hours lecture-demonstration, 4 hours lab.

THR318 Acting (3) i

Basic principles of acting and stage movement developed through improvisational techniques.

Prerequisite: Theatre 113 or consent of instructor.

THR329 Costume Design (3) i (even numbered years)

Costuming for the stage: history (style and period), theory and design of costumes. 2 hours lecture, 4 hours lab. (Student must furnish required assorted drawing equipment.)

THR338 Directing (3) ii

Principles of play direction; selection, casting, blocking, staging a production.

Prerequisite: Theatre 249.

THR349 Scene Design (3) i (odd numbered years)

Theory, principles and techniques of scene and lighting design for the contemporary theatre. Comprehensive analysis of a play and the development of a design through the media of floor plans, lighting plots, and perspective line drawings. 2 hours lecture, 2 hours lab. (Student must furnish required drafting tools, brushes and paints.)

Prerequisite: Theatre 249, 259.

THR358 Readers Theatre (3) ii

Principles and techniques involved in readers theatre.

Prerequisite: Theatre 218 or consent of instructor.

THR368 Shakespeare (3) (same as English 368)

THR370 Summer Theatre Workshop (3) iii

Practical experience in designing, staging, acting and producing the play or plays with individual assignments

designated by the instructor.

Prerequisite: Consent of instructor.

THR418 Independent Projects in Acting (1-3) i, ii, iii

Specialized research or performance problems for advanced theatre students interested in acting. Scholarly projects in the theory of acting are also acceptable.

Prerequisite: Theatre 318 and consent of instructor.

THR438 Independent Projects in Directing (1-3) i, ii, iii

Project course involving the directing of a full-length departmental production, including casting, rehearsing, and co-ordinating the technical elements of the play, including box office and publicity.

Prerequisites: Theatre 249, 259, 329, 338, and consent of instructor.

THR449 Independent Projects in Technical Theatre (1-3) i, ii, iii

Project course involving the design and execution of scenery, lights, sound, properties, costumes, or make-up for a full-length departmental production.

Prerequisites: Theatre 249, 349, or 229 and consent of instructor.

THR457 History of the Theatre: Greek to Restoration (3) i (even numbered years)

A study of the theatre from ancient Greece through the Restoration period. Theatre and stage architecture, scene design, costuming and acting styles are discussed and their relation to dramatic literature analyzed. 3 hours lecture.

THR467 History of the Theatre: Restoration to the Present (3) ii (odd numbered years)

A continuation of History of the Theatre 457, a study of the theatre from Restoration period to the present. 3 hours lecture.

THR478 Modern Drama (3) (same as English 478)

HUMANITIES

HUM203 Humanities I (3) i, ii, iii

Study in the social and intellectual history of man as reflected by the literature, art, music, drama and discourse of man from classical period to Renaissance.

HUM205 Humanities II (3) i, ii, iii

Study in social and intellectual history of man as reflected by the literature, art, music, drama and discourse of man from Renaissance to present.

HUM210 Introduction to Philosophy (3) i, ii, iii

A survey of the origins and development of philosophic thought.

HUM330 Comparative Religions (3) i

A survey of the nature and effects of major and minor religions on the culture and civilization of mankind.

HUM340 Ethics (3) ii

Definition, meaning, scope and application of ethics to every phase of mankind as comprehended by an analysis of ethics in ancient, medieval and modern times.

HUM360 Readings in the Humanities (3) ii (odd numbered years)

Specialized course work in the humanities of Western Civilization; emphasis on analysis of humanistic works of leading authors.

Prerequisite: Philosophy 203 and 205, or consent of instructor.

HUM420 Readings in Philosophy (3) i (odd numbered years)

A seminar course directed toward the analysis of principal works of leading philosophers: ancient, medieval and modern.

Prerequisite: Philosophy 210.

SAMPLE PROGRAM B.A. in Speech Communication

Fall Semester		Spring Semester	
ENG 104	English Composition	ENG 108	English Composition
	Foreign Language		Foreign Language
	Social Science Elective		Social Science Elective
	Communication Elective		Humanities Elective
PED 101	Concepts of Physical Activity	SPH 124	Voice & Articulation
	Physical Education Elective		Physical Education Elective
	14		16
Sophomore Year			
	Humanities Elective		Humanities Elective
	Foreign Language		Foreign Language
	Math Elective		Physical Science Elective
	Elective		Speech Elective
SPH 305	Interpersonal Communication	SPH 324	Small Group Communication
	Physical Education Elective		
	16		16
Junior Year			
	Physical Science Elective		Social Science Elective
	Elective		Elective
SPH 312	Speech Composition		Elective
SPH 334	Argumentation & Debate	SPH 314	Persuasion
	Speech Elective		Speech Elective
	15		16
Senior Year			
	Elective		Elective
	Elective		Elective
	Elective		Elective
SPH 475	Modern Theo. of Rhetoric & Comm.	SPH 335	Speech Criticism
	Speech Elective		Speech Elective
	Speech Elective		
	16		15

SAMPLE PROGRAM B.A. in Theatre

Fall Semester		Spring Semester	
ENG 104	English Communication	ENG 108	English Composition
	Foreign Language		Foreign Language
	Social Science Elective		Social Science Elective
	Theatre Elective	SPH 124	Voice & Articulation
PED 101	Concepts of Phy. Activity		Communication Elective
	Phy. Ed. Elective		Phy. Ed. Elective
	14		16
Sophomore Year			
	Humanities Elective		Humanities Elective
	Foreign Language		Foreign Language
	Social Science Elective		Math Elective
	Elective		Oral Interpretation
THR 249	Stagecraft I	THR 259	Stagecraft II
	16		16
Junior Year			
	Phy. Science Elective		Phy. Science Elective
	Elective		Elective
THR 329	Costume Design		Elective
THR 318	Acting	THR 338	Directing
	Phy. Ed. Elective	THR 229	Stage Makeup
			Theatre Elective
	15		16
Senior Year			
	Humanities Elective		Elective
	Elective		Elective
	Theatre Elective		Theatre Elective
	Theatre Elective		Theatre Elective
THR 457	History of Theatre I	THR 467	History of Theatre II
	Theatre Elective		
	16		15

SAMPLE PROGRAM
B.S. in Education
Major in Speech & Theatre

Freshman Year

Fall Semester		Spring Semester	
ENG 104	English Composition	ENG 108	English Composition
	Social Science Elective		Social Science Elective
	Math Elective		Phy. Ed. Elective
	Communication Elective		Social Science Elective
	Humanities Elective	SPH 124	Voice & Articulation
	15		16

Sophomore Year

	Humanities Elective		Humanities Elective
	Elective		Elective
	Phy. Science Elective	SED 202	Intro. to Sec. Ed.
SPH 312	Speech Composition	SED 203	Part. in Sec. Teach. I
PED 101	Concepts of Phy. Activity	THR 218	Oral Interpretation
	Phy. Ed. Elective	SPH 324	Small Group Communication
	16		16

Junior Year

	Education Elective		Elective
	Elective		Elective
	Speech or Theatre Elective		Speech or Theatre Elective
THR 318	Acting	THR 338	Directing
SPH 334	Argumentation & Debate	SPH 314	Persuasion
	Phy. Ed. Elective		15
	15		

Senior Year

SED 303	Exp. in Sec. Teaching II	SED 404	Foundations in Sec. Ed.
SED 304	Psy. in Sec. Teaching	SED 407	Ed. of the Ex. Student
	Speech or Theatre Elective	SED 409	Sec. Stu. Teaching III
THE 249	Stagecraft		14
SPH 465	Methods of Teaching Speech & Drama		
	16		

EVENING AND SATURDAY PROGRAMS

A variety of programs are offered at Missouri Western State College designed to meet the needs of the college community. These programs are identified as:

1. Degree Programs. In the fields of Business and Psychology, course work is designed to enable a student to complete the total requirements in the Evening and Saturday Program.
2. Professional and Career Advancement. Programs and courses in Evening and Saturday Programs are available for employees to upgrade their skills for professional or career advancement.

The office of the Co-ordinator of Evening and Saturday Programs helps to identify the needs and desires of the adult community and to coordinate these needs with the college program.

The office assists the student in enrollment plans and serves as a communication center for both students and faculty in the Evening and Saturday Program.

SUMMER PROGRAM

Missouri Western State College summer sessions are designed for:

1. Students who wish to accelerate their progress.
2. Students who carry only a partial course load during the regular semesters.
3. June high school graduates who wish to get an advanced start in their college studies.

Missouri Western welcomes summer students from other collegiate institutions.

THE BOARD OF REGENTS

Mrs. Shirley Bradley

Appointed: September, 1973;

Reappointed: October, 1973

Term Expires: October, 1978

Dwight Crane, Jr.

Appointed: November, 1971

Term Expires: October 1976

Robert E. Douglas

Appointed: October, 1968;

Reappointed: October, 1969

Term Expires: October, 1974

William F. Enright, Jr.

Appointed: October, 1965;

Reappointed: October 1970

Term Expires: October, 1975

Thomas V. Teare

Appointed: October, 1965;

Reappointed: October, 1972

Term Expires: October, 1977

ADMINISTRATION

ASHWORTH, George M.

Vice President for Administrative Affairs

B.S.—Northwest Missouri State College

M.Ed.—University of Missouri

Graduate Study—University of Missouri

ATHA, Charles

Director of Physical Plant

AYERS, Richard

Coordinator of Cooperative Education

B.S. in Ed.—Missouri Western State College

BENSYL, Conrad N.

Dean, Applied Sciences

B.S.—Northwest Missouri State College

M.S.—Kansas State Teachers College

Ph.D.—University of Missouri—Columbia

BERGER, Bob

Director of Financial Aids

B.S.—University of Kansas

M.S.—Northwest Missouri State University

Graduate Study—Northwest Missouri State University

BRAND, James

Coordinator Veteran's Affairs and Student Activities

B.S.—Missouri Western State College

BURRI, Charles R.

Director of Athletics

B.S.—Northwest Missouri State College

M.Ed.—University of Missouri

Graduate Study—University of Missouri

THE BOARD OF TRUSTEES

Evan R. Agenstein

Elected: April, 1972

Term Expires: April, 1978

Dr. Cecil Albright

Elected: April, 1974

Term Expires: April, 1980

Mrs. Shirley Bradley

Elected: November, 1974

Term Expires: April, 1976

Dwight Crane, Jr.

Elected by Board May, 1973;

Elected April, 1974 to unexpired term

Term Expires: April, 1976

Fred Eder

Elected: April, 1972

Term Expires: April, 1978

Richard Hopkins

Elected: April, 1974

Term Expires: April, 1980

CAPELLI, Stephen L.

Associate Dean, Career Programs

B.A.—Trenton State College, New Jersey

M.A.—Trenton State College, New Jersey

Ph.D.—University of Missouri—Columbia

CLARK, Lowell W.

Director of Institutional Research

B.S.—Kansas State University

M.S.—Kansas State University

Graduate Study—University of Colorado

COOK, Donald

Coordinator, Student Financial Aid

B.Music Ed.—Lincoln University

M.Ed.—University of Missouri—Columbia

Graduate Study—University of Missouri

COYNE, Charles E.

Dean, Education and Psychology

B.A.—Iowa State Teachers College

M.A.—Northeast Missouri State College

Ed.D.—North Texas State University

GRAHAM, Dorothy B.

Director of Counseling Center

B.A.—University of Iowa

M.A.—San Diego State College

Graduate Study—University of Colorado

HARTMAN, Paul

Director of Business Office

B.A.—Northwest Missouri State University

HAWK, Kenneth L.

Vice President for Business Affairs

B.A.—Fort Hays Kansas State College

M.S.—Fort Hays Kansas State College

HINES, Robert

Counselor

B.S.—Kansas State University

M.S.—Central Missouri State University

HOFF, Forrest

Dean of Students

B.S.—Northwest Missouri State College

M.Ed.—University of Missouri

HOLT, Marge

Head Campus Nurse

Trinity Lutheran Hospital

School of Nursing

Kansas City, Missouri

HOWGILL, Martyn

Director of Public Relations

B.A.—Fort Hays State College

M.A.—University of Missouri—Columbia

HUDSON, Dan

Coordinator, Housing

B.S.—Missouri Western State College

JURRIES, Elaine

Reference Librarian

B.A.—Mankato State College

M.A.—University of Minnesota

KUECHLER, William

Director of Off-Campus Services

B.S.—University of Missouri, Columbia

M.S.—University of Missouri, Columbia

Graduate Study—University of Missouri, Columbia and UMKC

LIBEL, Marie S.

Assistant Librarian

B.A.—Maryville College

M.A.—University of Wisconsin

LOONEY, Marvin O.

President

B.S.—Southwest Missouri State College

M.Ed.—University of Arkansas

Ed.D.—University of Arkansas

MAAG, Russell

Coordinator, Planetarium

MACKEY, Robert

Coordinator, Audio Visual

B.A.—William Jewell College

M.A.—Central Missouri State University

McDONALD, Marvin

Director of Testing

B.S.—Northwest Missouri State College

M.A.—Western Colorado State

MORRISON, Nolen B.

Vice President for Student Affairs

B.S.—Southwest Missouri State College

M.Ed.—University of Arkansas

Ed.D.—University of Arkansas

MYERS, Jerry

Director of Sports Information

B.S. in Ed.—Missouri Western State College

NELSON, Robert J.

Vice President for Academic Affairs

B.S.—Montana State University

M.S.—Montana State University

Ph.D.—Purdue University

ROBERTS, Dr. Phyllis

Student Health Physician

B.A.—Douglass College

D.M.—Kansas University Medical School

Pediatric Residence—Washington University

ROBINSON, Thomas J.

Director of Admissions and Records

B.S.—Northwestern Oklahoma State College

M.S.—Oklahoma State University

Graduate Study—Oklahoma State University, University of Illinois

RUNQUIST, Richard

Counselor

B.A.—Kansas University

M.Ed.—Wichita State

Graduate Study—U.M.K.C.

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