



William Jewell College
Liberty, Missouri 64068-9988 • (816) 781-7700

CATALOG 1987-88

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EQUAL OPPORTUNITY

William Jewell College is a private and independent institution affiliated with the Missouri Baptist Convention and American Baptist churches in the U.S.A. William Jewell College does not discriminate on the basis of race, color, age, religion, sex, national origin or physical handicap in its educational programs, activities or employment policies, in accordance with federal, state and local laws.

ACCREDITATION

William Jewell College is accredited by the North Central Association of Colleges and Schools. The following departments are also accredited: education by the Missouri Department of Elementary and Secondary Education; music by the National Association of Schools of Music; nursing by the Missouri State Board of Nursing and the National League for Nursing.



William Jewell College has long been recognized as the "Campus of Achievement." Founded by the Baptists of Missouri in 1849 and named in honor of Dr. William Jewell, frontier statesman, physician, and benefactor, William Jewell was the first four-year men's college west of the Mississippi. In 1921 it became co-educational.

Located in Liberty, Missouri, a friendly town of 20,000, William Jewell's principal campus of 106 wooded acres is just 15 minutes from downtown Kansas City. This location offers the best of two worlds—a quiet and scenic campus, ideal for study and contemplation, and the social enjoyment and easy access to the cultural advantages of a city of a million people. The William Jewell campus features colonial architecture and is one of the nation's most beautiful. A quadrangle of six buildings located on "the hill" forms the nucleus around which campus life is centered. A stadium, music building and multi-purpose building join the quadrangle. Seven modern residence halls for men and women stand to the north and east of "the hill," all within walking distance of the quadrangle. The Mabree Center for Physical Education offers some of the finest physical fitness facilities in the state.

William Jewell is primarily a residential college. Through curricular and extracurricular activity, each student has a total living/learning experience which serves to broaden the liberally educated individual. William Jewell is a Christian institution open to all qualified men and women. Racial and philosophical differences enrich the college community by creating an interplay of different points of view. Enrollment is limited to approximately 1400 students in the day division.

The mission of William Jewell College is:

To provide a sound liberal arts education of superior quality.

As a respected institution of higher learning, William Jewell College endeavors to provide a breadth of stimulating, intellectual experiences which challenge the individual to become a thoughtful and self-disciplined person, responsive and sensitive to the needs of society. The college views the liberal arts and sciences as the

foundation for sound professional and pre-professional preparation, while focusing upon the individual as a significant agent for change and for improvement in the human condition.

To provide unique and significant educational, cultural and social services to the broader communities of Liberty, Kansas City, and the world at large.

As an institution supportive of public service to the community at large, the college upholds its unique commitment to exceptional cultural and educational opportunities. Programs are offered to contribute in the intellectual, emotional, spiritual, cultural, social and physical development of individuals as the college seeks to operate as a positive agent of change both on campus and in the larger community.

To be an institution loyal to the ideals of Christ, demonstrating a Christian philosophy in all of life and sensitive to the Missouri Baptist heritage which is the foundation of the college.

As a community in which the Christian commitment of the members exemplifies the compatibility of sound scholarship and the Christian faith in daily life, the college challenges the individual to embrace a value system advocating caring relationships and social concern. Founded in 1849 by the Baptists of Missouri, William Jewell College is an independent, church-related institution which emphasizes the finest of its Baptist heritage, and seeks new methods of communicating the Christian faith to each generation. As the steward of substantial denominational resources, the college is committed to the preparation of students entering church-related vocations.

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Recognizing that education is the opportunity and responsibility of the student, William Jewell College invites the student to an adventure in learning. The process is simple. The college selects students who can profit most from the kind of education offered on "the hill," provides consultation to set goals and plan educational strategies to reach those goals, and offers the resources necessary to meet those goals.

Academic Advising

Academic advising is an important part of the teaching process at William Jewell. Each entering student is assigned an academic advisor soon after admission. Open students (those who are not yet ready to declare a major) and freshman/sophomore business majors are assigned to advisors throughout the college. Entering students declaring majors in all departments (except freshman/sophomore business majors) are assigned to advisors within their primary major field of study.

Students and faculty members may change advisory relationships whenever necessary after consulting with the Director of Academic Advising. The college encourages the advisory relationship by scheduling time for academic advising within the normal academic calendar, because advising is as much a process of teaching as are classroom activities.

General Education

William Jewell's curriculum is in the liberal arts tradition. In the words of one of the college goals, this curriculum shapes "an educational experience which can liberate each individual from the tyrannies of ignorance, provincialism, self-centeredness, and close-mindedness." The general education programs are the center of this liberating, or liberal, experience.

Thus, just as every student eventually includes a specialized program (a major or area of concentration) in the degree plan, so the student also includes a general program. Two programs are available. Though most students enroll in the Distribution Curriculum, Program I below, 60 students will be admitted annually to the Integrated Curriculum, Program II below.

Choosing one of these two programs is an important curricular decision each student makes when first preparing to register at William Jewell.

Program I. The Distribution Curriculum of General Education, provides a liberating breadth of studies through a variety of separate departmental courses in the three large areas of knowledge—the Humanities, the Social Sciences, and Mathematics and Natural Sciences.

Program II. The Integrated Curriculum of General Education, provides this breadth of knowledge through a core of interdisciplinary courses using the central theme of decision making to unify study of the Humanities, the Social Sciences, and Mathematical and Natural Sciences.

Program I. The Distribution Curriculum

The Bachelor of Arts Degree. The general education pattern for the A.B. degree includes:

1. English 100 or advanced placement by the department.
2. Communication 100.
3. Physical Education 100 plus 1 hour in activity courses. (No more than 4 hours in activity courses may be applied towards the 124 hours required for the degree.)
4. One course in religion selected from Religion 115, 116, 117.
5. Proficiency in a foreign language. This requirement may be met by demonstrating language proficiency commensurate with 12 hours' work in one foreign language. A student who presents two units of high school language may be required to take a placement test. The student who thereby attains advanced placement may satisfy the language proficiency requirement by passing four semester hours in the same language in courses above the elementary level. The foreign language requirement will be waived for a foreign national who has grown up in a non-English speaking culture and successfully

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completed secondary school work taught in a language other than English. Official certification will be required.

6. Twelve hours from Mathematics and Natural Sciences (biology, chemistry, computer science, mathematics, physics), chosen from two separate fields and including one laboratory science.

7. Twelve hours from Social Sciences (economics, history, political science, psychology, sociology), selected from at least two separate fields.

8. Twelve hours from Humanities, selected from two separate fields, in addition to the four hours in religion and including at least four hours of literature. Humanities credit toward graduation may be earned in art courses numbered 200 or above, Communication 220, 222 and 309, English (except composition courses), foreign language literature courses numbered 300 or above, music (except 354, performing groups and the first two semesters of an applied music sequence), philosophy, Political Science 211 and 311, and religion (except 115, 116, 117, 203, 204, 205).

The maximum credit toward the bachelor of arts degree that a student may receive in one subject-matter field is 40 hours.

The Bachelor of Science Degree. Students majoring in accounting, music, nursing, physical education, and systems and data processing elect the following general education pattern leading to the B.S. (majors in elementary education, management, music and physical education may elect either the A.B. or the B.S. degree):

1. English 100 or advanced placement by the department.

2. Communication 100.

3. Physical Education 100 plus 1 hour in activity courses. (Except for majors in physical education, no more than 4 hours in activity courses may be applied toward the 124 hours required for the degree.)

4. One course in religion selected from Religion 115, 116, 117.

5. Eight hours from Mathematics and Natural Sciences (biology, chemistry, computer science, mathematics, physics), chosen from two separate fields and including one laboratory science.

6. Twelve hours from Social Sciences (economics, history, political science, psychology, sociology), selected from at least two separate fields.

7. Eight hours from Humanities, selected from two separate fields, in addition to the four hours in religion and including four hours of literature. Humanities credit toward graduation may be earned in art courses numbered 200 or above, Communication 220, 222 and 309, English (except composition courses), foreign language literature courses numbered 300 or above, music (except 354, performing groups and the first two semesters of an applied music sequence), philosophy, Political Science 211 and 311, and religion (except 115, 116, 117, 203, 204, 205).

The maximum amount of credit toward graduation that a student may receive in one subject-matter field for the bachelor of science degree is 60 hours.

Program II. The Integrated Curriculum of General Education

The Basic Skills Component:

English 100 or advanced placement by the department.

Communication 100.

Physical Education 100 plus 1 hour of activity courses. (Except for majors in physical education, no more than 4 hours in activity courses may be applied toward the 124 hours required for the degree.)

Core of Studies in Public and Private Decision Making: Foundations for the Future: An Integrated Value-Based Study of Public and Private Decision Making, Relating Christian Heritage and Cultural Past to Contemporary Problems in Human Futures.

The Foundations courses are described in this catalog in the section on Courses of Study.

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Foundations 100. Problems, Choices, and Values: An Introduction to the Integrated Program.

Foundations 210. Private Decision Making for Present and Future Selves.

Foundations 220. Public Decision Making in America.

Foundations 230. Christian Heritage and Western Culture: Foundations for Formation of Values.

Foundations 240. American Decisions and Developing Nations.

Foundations 400. From Present Problems to Chosen Futures: A "Capstone" Course for seniors.

The Distribution Component:

Bachelor of Arts Degree.

4 hours from Mathematics and Natural Sciences (biology, chemistry, computer science, mathematics, physics).

4 hours from Social Sciences (economics, history, political science, psychology, sociology).

4 hours from Humanities—art courses numbered 200 or above, Communication 220, 222 and 309, English (except composition courses), foreign language literature courses numbered 300 or above, music (except 354, performing groups and the first two semesters of an applied music sequence), philosophy, Political Science 211 and 311, and religion (except 115, 116, 117, 203, 204, 205).

12 hours or equivalent proficiency in one foreign language.

The maximum amount of credit toward graduation that a student may receive in one subject-matter field for the bachelor of arts degree is 40 hours.

Bachelor of Science Degree.

For students majoring in accounting, music, nursing, physical education, and systems and data processing (majors in elementary education, management, music, and physical education may elect either the A.B. or B.S. degree):

4 hours from Social Sciences (economics, history, political science, psychology, sociology).

The maximum amount of credit toward graduation that a student may receive in one subject-matter field for the bachelor of science degree is 60 hours.

Academic Standards and Integrity

It is the student's responsibility, ultimately, to know and comply with catalog regulations governing admission, registration, retention, withdrawal, degree plans, graduation requirements, payment of tuition, etc.

The college subscribes to policies designed to ensure acceptable standards of scholarly activity and to enhance the value of the William Jewell degree:

1. Degrees are awarded to students who have satisfied the entrance requirements, completed 124 semester hours of college work as specified in the catalog, completed a Winterim course in each year of full-time study at the college, and earned a C average for all work attempted. Students who transfer into the college must earn a C average for all work attempted at the college as well as a cumulative C average on all work attempted. Each student must pass a writing proficiency test before receiving permission to register for any hours beyond 60. (A second baccalaureate degree may be awarded to the student who completes at least 30 additional hours and all degree requirements.)

2. Each student will complete the requirements for graduation in the catalog in effect on the date of college entrance. If a subsequent decision is made to follow a later catalog, through a bonafide change in major or for other causes, the requirements in effect at that time must be met. A student who returns after an absence, and who has not graduated, may expect to be required to change to the requirements set forth in later announcements. The Dean of the college will assist in such cases. The curriculum of the college is under continuing development, and a given catalog cannot constitute a contract with the student. Every effort is made, however, to achieve fair and reasonable adjustment for students affected by curricular change.

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3. Satisfactory completion (with a grade of C or higher in each course) of not fewer than 24 hours in the area of concentration is required for graduation unless the department specifies different standards. Students who transfer into the college must complete in residence a minimum of 12 hours in the area of concentration. Majors in elementary education and music education must meet certification requirements. Specific requirements are outlined in handbooks available in the respective departments.

4. Credit earned in English 100, Communication 100, the required religion course, and Physical Education 100, all part of the General Education program, does not apply to the requirements in the area of concentration. A course applying toward the major may also apply toward one general requirement.

5. Students must meet their specific requirements in their area of concentration, and must successfully complete at least two writing component courses.

6. Students who expect to graduate must file an Application for Graduation with the Registrar at the fall registration of their senior year; this includes candidates for the following summer.

7. Any senior student who has completed all requirements for graduation except eight semester hours of elective credit or fewer may, with permission of the Dean, do this work *in absentia*. This may be done by correspondence from a reputable institution, or in residence in a college or university of recognized standing. Such a student may participate only in the graduating exercises of the class following the completion of the work. The last year's work for graduation (minimum 30 semester hours) must be done in residence at William Jewell, except as here provided.

8. Students who complete 124 hours or more with a grade point average below C, with permission of the Dean, may attempt an additional semester of work to meet the requirements for graduation.

9. The college may accept for graduation up to 10 semester hours of credit from an institution of recognized quality which maintains a

regularly organized correspondence department. No credit can be allowed by correspondence toward a major except by the prior consent of the head of the department and approval of the Dean. A maximum of 30 semester hours of correspondence and extension work combined may be accepted.

10. No more than six hours in courses numbered below 100 may be applied toward the 124 hours required for graduation. Non-music majors may use up to eight hours ensemble credit as elective hours toward graduation.

The college informs students of their academic progress by issuing formal reports each semester. However, students assume the obligation to be knowledgeable of their academic status and of the academic regulations which are stated in this catalog.

Students are expected to accumulate at least two grade points for each credit hour attempted each semester. Students with overall averages below 2.0 are considered on academic probation. At the end of the first five weeks of each semester, the Dean receives a report of all students who are doing unsatisfactory work.

To remain in the college the student must achieve:

A grade point ratio of 1.5 at the end of the first and second semesters;
A grade point ratio of 1.75 at the end of the third and fourth semesters; and
A grade point ratio of 2.0 at the end of the fifth semester and thereafter.

Grading and Grade Points

The college grading system and grade-point value are as follows:

A - 4 points per credit hour;
B - 3 points per credit hour;
C - 2 points per credit hour;
D - 1 point per credit hour;
F - 0 points per credit hour;
AU - audit;
FA - failed pass/fail;
IP - in progress toward Oxbridge examinations;
NR - not reported;
P - pass;

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PR - in progress;
R - repeat English 100;
W - withdrew;
WD - left the college;
WF - withdrew failing.

Scholastic averages are computed upon the basis of hours attempted and the total number of grade points earned. For graduation, the total number of grade points must be two times the number of hours attempted (or an average of C).

A student may elect or a department may require its majors to repeat courses in which the grade earned is D or F. When such courses are repeated and a satisfactory performance recorded, only the repeat grade will be used in determining the grade point average. The D or F remains, however, a part of the permanent record without being considered in grade point computation.

The mark I (for incomplete) may be given in any regular course in which, owing to extenuating circumstances such as serious injury or lengthy illness, a student has been unable to complete the requirements of the course. The student must complete the requirements of the course within the succeeding semester. Failure to do so, without a written contract between instructor and student and approval of the Dean, will result in a grade of F.

In independent activity courses (directed study, directed reading, research, *etc.*), the mark "PR" (for progress) may be used at the end of a semester in which the student has made progress in his project but has not completed it. The student must complete the work within the succeeding semester. Failure to do so, without a written contract between instructor and student and approval of the Dean, will result in a grade of F.

Student Classification

Students are classified on the basis of the number of accumulated credit hours:

Freshman	1 to 23 semester hours
Sophomore	24 to 59 semester hours
Junior	60 to 89 semester hours
Senior	90 to 124 semester hours

Advanced Placement and Credit

William Jewell College offers advanced placement in cooperation with the College Entrance Examination Board. On presentation of acceptable examination scores, a student may receive advanced placement with or without credit in specific disciplines.

Credit and advanced placement are also granted through the College-Level Examination Program (CLEP) and through departmental examinations. Freshmen entering William Jewell College directly from high school are not granted credit for CLEP general examination results; however, they may sit for as many subject examinations for credit as they wish. Entering freshmen who have delayed college entrance by as much as three years since high school graduation may take both CLEP general and subject examinations for credit.

The college imposes no limit on the amount of credit a student may earn by examination, although one year of residency is required for a degree from William Jewell College. Such is recorded on the student's transcript without a letter grade and with the notation *Credit by Examination*.

High school students demonstrating exceptional academic ability may earn up to sixteen credits prior to entry as a college freshman through the Early Admission program described in the Admissions section in this catalog.

The Comp Test

All entering freshmen and the graduating seniors (either the entire class or a representative group) take the ACT College Outcome Measures Project test, which helps the college assess the general learning of the student body as a whole.

Pass-Fail Option

The pass-fail option encourages students to attempt courses of interest which would normally be avoided because of lack of background. Any sophomore, junior, or senior in good academic standing may elect to take one course per semester under the pass-fail option with the following limitations:

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1. No more than 20 pass-fail hours;
2. No course in the major area or concentration;
3. No course specifically required for graduation;
4. No course being taken to meet the requirement of a block or group;
5. No course required for teacher certification or pre-professional preparation.

Grades of P or F received under this option will not be included in computing the grade point average, but credit earned will apply toward graduation. Students elect this option at enrollment with the registrar's office and can change it only during the normal time allowed for a change in courses—*before the end of the second week of classes*.

Honors

The Honor Roll for each semester will include the names of students who have carried a program of 14 or more semester hours, have no grade lower than C in any subject, have no incompletes, and have achieved a minimum grade point ratio of 3.5.

A student who completes the work for the degree with as many as 3.9 grade points for each hour attempted is graduated *Summa Cum Laude*, and this is cited with the degree. A student who completes the work with a ratio between 3.75 and 3.89 is graduated *Magna Cum Laude*, and this is cited with the degree.

The student who wants an added challenge of academic excellence may seek graduation with honors or achievement. Eligible students must have a minimum grade point average of 3.5 at the time of graduation and have completed A level work on a special research or creative project over two or more semesters in a concentrated area.

Students planning to pursue an honors project should declare that intent in writing to the chairman of the Honors Council no later than the third week of the second semester of their junior year. Additional information may be obtained by contacting the academic Dean or the chairman of the Honors Council.

Registration

Students may register at the beginning of either semester, at the beginning of the summer school, or at pre-registration periods. For specific dates and times of registration for first and second semester and summer school, students should refer to the college calendar in this catalog. Registration, including settlement of all charges at the business office, must be completed by the date listed in the calendar or be subject to the late fee.

Students enrolling for the first time may have the privilege of registering as late as two weeks after the beginning of classes by obtaining the Dean's permission. This provision does not cancel the extra fee for late registration or late settlement of charges.

Changes in Courses

Changes in a course of study are *not allowed after the second week* from the beginning of a semester, which is calculated from the *first day classes begin*. Exceptions may be made on the recommendation of the college physician or the head of the department in which the student is majoring. No course may be *added* after the second week following the *day classes start* after registration.

Students who desire to change their major field, once this has been formally declared, should have the concurrence of the heads of the departments concerned before any change is made.

The college reserves the right to discontinue any section in any course in which the enrollment is not sufficient to justify its being held. This decision rests with the Dean of the college. Generally, sections with fewer than six registrants will not be maintained.

Dropping Courses

Students may drop a course anytime through the last regularly scheduled class meeting time prior to final examination week unless the faculty member has specified in the course syllabus an earlier deadline date for withdrawal.



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If a course is dropped during the first four weeks of the semester, no record will appear on the transcript. From the fifth to eighth week, W will appear on the transcript; after the eighth week, WF or WP will appear, as appropriate.

Withdrawal

Students wishing to withdraw from college for any reason must file the official withdrawal form provided by the office of student affairs. Improper withdrawal will result in a grade of F for all courses.

Transfer to Another Institution of Higher Education in Missouri

Missouri institutions of higher education welcome transfer students; however, students should be aware that actual requirements for degrees vary from institution to institution. This factor makes it particularly important that students who plan to transfer make contact very early in their academic career with the campus where they eventually wish to graduate. By arranging in advance for appropriate courses to be taken prior to transfer, a student can minimize problems. The dean's office or admissions office can help contact the institution to which the student might transfer if assistance is needed.

Summer School Credit

Students desiring to take work at other institutions during the summer months should coordinate plans in advance with their advisor. Written approval from the Dean of the college, secured in advance, is necessary to assure acceptance of summer transfer credit by William Jewell College. Once a student has completed 64 hours, the student may not transfer work from a community or junior college.

Winterim

Between the fall and spring semesters a short "Winterim" session is offered the second and third weeks of January. The two-week Winterim term is integral to the academic

year, providing opportunity to pursue special courses and activities of educational enrichment such as internships, short courses overseas or on another campus, and selected research projects. Students concentrate on only one subject for the intensive two-week Winterim period. As an integral part of the William Jewell academic experience, Winterim is required of all full-time students each year.

Students register for Winterim courses or activities during pre-registration for Spring semester. Students will register for courses and activities selected from those listed in the Winterim course schedule.

There is no additional tuition cost for a William Jewell student who enrolls in a William Jewell Winterim. Some Winterim courses and activities do, however, require fees. Winterim courses carry one-half to two hours credit. A student may not duplicate a previous Winterim course or activity for credit toward graduation, nor take more than two Winterim courses under the same department. Up to four credit hours awarded for Winterim courses may apply toward 124 hours required for graduation. A student may pursue more than one Winterim course during a Winterim period, but such additional courses do not remove Winterim course obligation in future years, and no more than two hours of credit may be earned in any one year, except in a mini-teaching or student teaching experience.

The dropping of a Winterim course or activity without the approval of the Dean will carry automatic penalty of an F grade.

Writing Program

English 100, Freshman Composition, is required for graduation and to assure writing competency. All students must pass a minimum competency, but are urged to achieve beyond the minimum.

Some students who are already capable writers should apply to the department chairman for enrollment to take department-devised exams which rigorously demand

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demonstration of competency in composition. Successfully passing the exam will earn advanced placement in English 125 or, with permission, in other writing courses.

After achieving the required writing competency, either in English 100 or by the advanced placement method, students will be expected to maintain that competency or an even higher standard. If a professor finds a student's writing to be below standard, that student will be referred to the English department for additional or remedial work.

Students are required to pass the William Jewell College Proficiency Test of Writing Skill, the same test as the final examination in Freshman Composition, before receiving permission to register for hours beyond 60. Transfer students who have passed composition elsewhere are required to pass the proficiency test before registering for hours beyond 60 or before the end of their third semester at Jewell, whichever occurs later.

During their undergraduate career, students are also required to pass the equivalent of two courses beyond Composition which provide opportunity for additional writing experiences. These courses are designated as writing component courses in the Courses of Study and are taught by faculty in a variety of disciplines.

Since some students may come to college without having had many writing experiences in high school or may simply feel inadequately prepared for college writing, the Writing Center is available on a voluntary basis to help anyone interested in developing basic writing skills necessary for college.

Majors

Each student at William Jewell designs or chooses an area of concentration in light of interest, abilities, and objectives, and in accordance with the college guidelines outlined in the catalog under "Academic Regulations." The area of concentration worked out in consultation with the student's advisor normally consists of six to 15 courses (24 to 60 semester hours).

Students may choose one of the traditional academic majors (e.g., art, business, education, English, history, physics, religion) or devise an interdisciplinary or nontraditional area from the several hundred courses offered by the college. Students may examine a culture (e.g., American Studies, Black Studies), an historical epoch (e.g., Colonial America, Medieval Europe, Renaissance England), a combination of disciplines (e.g., Aesthetic Principles in Fine Arts, Social Psychology, Writing), or a specific vocation (e.g., a combination of business and music leading toward a career in the music business).

Instructions and forms for preparing an interdisciplinary or nontraditional area of concentration are available through the office of the Dean. Proposals for these self-designed majors will not be accepted or approved later than the third week of first semester of the senior year (i.e., two semesters before graduation).

Oxbridge Alternative

The Oxbridge Alternative is an honors program of tutorials and examinations through which a small number of students may pursue their areas of concentration. As its name implies, it is an American adaptation of the educational method of the great English universities Oxford and Cambridge. In this method, the area of concentration or major is not defined by required courses, but by subjects to be included on comprehensive examinations taken before graduation. Instead of taking courses in these subjects, students prepare for the examinations by independent study and tutorial instruction involving individual conferences over assignments which they have completed. William Jewell's innovative adaptation of this method is supported by a grant from the Hall Family Foundations.

From ten to 20 freshmen and sophomores are accepted each year as Oxbridge Alternative students. Through the program, they are able to pursue tutorial majors in:
English Language and Literature
History

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Institutions and Policy

(an interdisciplinary major combining philosophy, politics and economics)

Music

Religious Studies

Science

(an interdisciplinary major in molecular biology)

Freshmen enter as Oxbridge Open students and do not choose majors until late in spring semester.

Study will normally include at least one term spent in either Oxford or Cambridge.

The Oxbridge Alternative is designed to meet the needs of some of the best students entering American colleges today. It emphasizes independent reading, writing, and the development of abilities of critical analysis. It gives students primary responsibility for their own learning.

Interested students may consult the Senior Tutor about the rigorous application process.

Further information is given in this catalog in the section on Courses of Study. For a full description of the program, please consult **The Oxbridge Alternative Handbook**.

Independent Study

While at William Jewell, each student is encouraged to plan at least one independent study experience to be pursued in an area of special interest. Independent study projects are planned in cooperation with the advisor and the professor directing the study. The summer term and the January Winterim are ideal for short-range independent projects, on or off campus.

Through the college Alumni Association, it is possible for students to do independent study related to professions, business and industry, government, religious or social service, and other areas of personal interest.

Honors Study. Students desiring rigorous academic challenge may undertake independent study in the Honors Program and seek graduation with "Honors" or "Achievement." This program is described in this catalog under Academic Regulations.

Off-Campus Study

A student wishing to pursue a portion of college studies off campus should seek the assistance of the advisor in developing an off-campus experience that has a direct relationship to the student's educational goals.

Great flexibility exists in choosing the length and type of program. Typical programs involve work-study in the inner city, social or religious service, vocational internships or study at another college. Programs may be formally structured classwork or independent study.

Programs in the United States. The college sends students to the United Nations Semester of Drew University and the Washington Semester of American University. Students interested in these and similar programs should contact the office of the Dean.

Urban Studies. The location of William Jewell College in the suburbs of the greater Kansas City metropolitan area makes it ideal for students interested in special urban environment studies. These studies may be arranged in business, communication, education, social work and sociology, and many other academic areas. Special urban study programs are arranged through appropriate academic departments, or the office of the Dean.

Visiting Student Program. The college participates in a Visiting Student Program, sponsored by the American Baptist Association of Colleges and Universities. A student may study for a semester or full academic year at one of the following American Baptist institutions: Alderson-Broaddus College (W.Va.), Bacone College (Okla.), Benedict College (S.C.), Eastern College (Penn.), Franklin College (Ind.), Judson College (Ill.), Keuka College (N.Y.), Linfield College (Ore.), Ottawa University (Kan.), or Sioux Falls College (S.D.).

For more information, contact the office of the Dean.

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The World Campus

Each student at William Jewell College is encouraged to pursue a semester or a year in a foreign study experience. Through programs in England, Europe and Japan, the college enables students to become familiar with other countries and to develop cross-cultural skills, a sense of self-awareness, self-confidence and independence.

Overseas study programs are considered to be vital as a part of William Jewell College's total educational curriculum. The programs range in length from several weeks to a full semester or a full year. Each program gives a selected range of courses designed to integrate well with courses of study at William Jewell and at other accredited colleges and universities in America. Programs are open to all students regardless of their major fields of study. The Coordinator of Overseas Studies assists students in planning foreign studies.

All students who participate in overseas study programs for a semester or academic year must first have passed the Writing Proficiency Test.

Most scholarships and financial aid used to study at William Jewell during the academic year can also be used to study with college-sponsored programs, and often students are eligible for additional loans. Students considering foreign study should discuss their options with the financial aid office.

Programs in Oxford and Cambridge, England.

William Jewell offers opportunities for academically strong students to study in several programs in England's most famous centers of learning. Their study in all cases is individually directed, in Oxford "tutorials" or Cambridge "supervisions."

Credit for study in these programs, except as part of an Oxbridge Alternative major, is awarded by William Jewell College and is recorded as "Study in Oxford with Honors" or "Study in Cambridge with Honors."

Division of the Oxford or Cambridge academic year into three eight-week terms (early October

to early December, mid-January to mid-March, and late April to late June) allows travel time before and between terms.

Applications are accepted from students with a minimum 3.5 cumulative grade point average who have demonstrated strong writing abilities and capacity for independent study. In addition, students applying to study in Cambridge must meet Cambridge University's entrance requirements: high ACT or SAT scores and college and/or high school study of English, foreign language, math and science.

Applications are due Feb. 1 for study in Cambridge and Feb. 15 for study in Oxford for either or both semesters of the following academic year. Oxbridge Alternative majors simply confirm their plans by these dates, as study in either Oxford or Cambridge is an integral part of the program for which they have already been accepted.

Regent's Park College. William Jewell College sustains a cooperative arrangement with Regent's Park College, Oxford, sending two students each year to study at that institution. Founded by British Baptists in 1810, Regent's Park specializes in theological studies, though undergraduates are accepted to study history and literature as well. Students typically "read" in only one subject each term, receiving 11 credit hours per term for work successfully completed.

Oxford Overseas Study Course. The Oxford Overseas Study Course is an independent private study program conducted by Francis Warner, Vice-Master of St. Peter's College, Oxford University, for students from a limited number of American colleges. Although the program is not directly connected to the University, it provides students with the opportunity to study in the traditional Oxford manner with tutors from the University community. Students typically "read" two subjects each term, earning 11 or 12 credit hours per term to a maximum of 34 credit hours for the whole year. Tutorial instruction may be arranged in subjects such as literature, history, politics, art or music history, economics, philosophy, religion, psychology, sociology, and mathematics.

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Homerton College, Cambridge. A cooperative arrangement with Homerton College allows William Jewell students to study for a year at Cambridge University. Homerton's specialty is the education of future teachers, but the college offers a full range of instruction in subjects including sciences, history, literature, theatre, art, and music.

In addition to these undergraduate programs in Oxford and Cambridge, William Jewell also offers opportunities to a few outstanding graduates to continue their studies at **Wolfson College, Cambridge.** After earning a Jewell degree, the graduate may be admitted for two years as an Affiliated Student at Wolfson to earn an Honors B.A. degree from Cambridge or to enter a one-year program of courses and research leading to the M.Phil. degree. Applications are due in September for study during the following academic year.

Harlaxton College, England. William Jewell students join both international students and other Americans to study at Harlaxton College, the British campus of the University of Evansville. The college is located in Harlaxton Manor, a magnificent Victorian estate located near Grantham, in Lincolnshire. The curriculum includes courses in art, archaeology, business and economics, literature, history, science, mathematics, music, philosophy, political science, psychology, and sociology. Courses are taught by British faculty as well as by visiting American faculty from Evansville, the University of Wisconsin-Eau Claire and William Jewell. The 4½-day class schedule offers travel opportunities throughout each semester. Applications, which are due by April 1 for either fall or spring semester of the following academic year, are accepted from students in good standing with an average of 2.5 or above.

Teacher Education in England. The education department sponsors a four-week study option in the British Primary schools of Cheltenham, England. The on-site experience is preceded by a preparatory course at William Jewell. For specific information see Education 470 and 475 under Courses of Study.

Seinan Gakuin University, Japan. William Jewell College offers an exchange program with Seinan Gakuin University of Fukuoka, Japan, in which three William Jewell students study at Seinan Gakuin, and three Japanese students attend Jewell for a full academic year.

Instruction is in English for students from the United States, and courses range from Japanese language and culture to humanities and social sciences. Some of the offerings are Calligraphy, Cultural Anthropology, Cultural History, Japanese Culture and Society, Japanese Law and Government, and Modern Japanese Literature in Translation. A year of study at Seinan Gakuin will normally earn 30 to 32 hours of credit for a William Jewell student.

Program costs, including room and board, and all administrative and extension fees, are the same as the total cost for attending William Jewell for the academic year.

Applications will be accepted from William Jewell students in good academic standing. Applications are due Feb. 15 for study at Seinan Gakuin the following year.

Paris, France. With the cooperation of Central College in Iowa, students study in one of two programs in France. Each begins with a month of intensive French language study at the Alliance Francaise. From there, the student enters one of two program options:

La Sorbonne. Three levels of instruction are offered at one of the world's oldest and most respected universities. The Advanced Program is for students with three years of college French and a solid background in European history, civilization and literature. Lectures are the primary mode of instruction, and grades are based entirely on final exams. The Regular Program, for students with two years of college French, will study language and civilization. The Introductory Program puts the student immediately into basic French language courses.

Institut Catholique. The Institut program is similar to that at the Sorbonne, but it requires

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a year of study. The teaching style is more familiar to American students, with class discussion, written assignments and some final exams. Required is a practical language class and four to six civilization courses each of the three terms of the trimester. A slightly wider selection of courses is available. The Institut also offers a program in French business administration, an appealing option for the student headed for a career in international business. The business program is offered in two levels, and at its conclusion the student may qualify, through examination, for an official endorsement from the prestigious Chambre de Commerce de Paris.

To apply for the programs in Paris, contact the Coordinator of Overseas Studies. Application deadline is March 15 for either semester.

Germany and Austria. A Central College program also allows study in German-speaking countries. The first two months of this program are spent in Germany, working in intensive language study at a Goethe Institute and preparing for the academic experience to come. The student then moves to Austria, to the University of Vienna. The academic system requires outside reading and individual research, formalized lectures and one final exam to determine the grade. Applications for the program must be submitted by March 15.

University of Granada, Spain. The whole country is the classroom in this Central College program which is based in three different locations—a rural setting, the nation's capital and a large provincial city. Two distinct programs are available: the Regular Program, for students who have completed at least two years of college-level Spanish, and the Advanced Program, for the students with three or four years of college-level Spanish and/or who have had previous overseas experience in a Spanish-speaking country. There are a number of course options to fit the student's own educational interests. In all cases, instructors are native professors from the University of Granada, and all the work is done entirely in Spanish. Deadline for applications is March 15.

Winterim in France. Offered in alternate years with the German Winterim, the tour of France involves three weeks of study of the civilization and culture of France. The delights of Paris and travel to the south of France, including visits to Versailles and Mont St. Michel, are included. The application deadline is Sept. 30, prior to the January of the tour.

Winterim in Germany. Interest in Germany is the only prerequisite for this Winterim experience. For about a month, participants study the geography, culture, architecture, history, music, art and literature of this fascinating country. The trip includes a visit to East Germany and East Berlin and skiing in the Alps. Offered in alternate years with French Winterim, the German tour has an application deadline of Sept. 30.

Summer Study in Spain. Students may earn 10 semester hours of credit in Spanish in an intensive program of language and cultural study in Spain, offered during June and July of alternate years.

The study program is arranged according to offerings and individual needs. All courses are taught in Spanish by William Jewell's resident professors, Dr. Antonio Vera, a native of Spain, and Dr. Catherine Vera. (Note: Financial aid is not available for summer study.)

All students in good academic standing qualify for admittance to the program. Applications are due Feb. 15.

The 4-1-4 Calendar

William Jewell College employs a 4-1-4 academic calendar, including two regular semesters in the fall and spring and a two-week Winterim session in January. In this arrangement, the normal course load for each semester is four courses of four semester credit hours each. The student may also elect to take certain "adjunct" courses in physical education activities, applied music, and other skills development or enrichment areas.

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In addition to the 4-1-4 academic year, the college offers an eight-week summer school beginning in June. Regular courses and special workshops are offered during the summer.

The Evening Division

William Jewell's Evening Division provides undergraduate courses of study for individuals who cannot pursue an educational program during the regular day session of the college.

The Evening Division curriculum offers courses to meet a broad range of interests and needs. While course offerings from more than 20 academic areas are available, special emphasis is given to accounting, economics, management, psychology, sociology, and systems and data processing.

The Evening Division also provides some specialized non-credit classes appropriate for an adult population. Students not desiring college credit may enroll for night classes provided they are at least 17 years of age and are capable of doing college-level work.

Evening Division professors are selected from the regular William Jewell faculty and from business and professional organizations. The instructors are highly trained, professionally competent, and concerned with providing an educational experience of the highest quality.

Students are classified as day or evening division students on the basis of their advisor's affiliation and the requirements of the degree that they are pursuing. Interpretations of such classification may be made by the Dean of the college or the Associate Dean for Continuing Education.

An evening division student may enroll for courses in the day division through the procedure outlined in item 5 below.

A day division student who is enrolled for (or has paid tuition for) at least 12 semester hours in the day division for the current semester may enroll for evening division courses during that semester under the following conditions:

1. Evening division students have first priority in evening division classes.

2. Day students who wish to enroll in a class during the day but are unable to owing to course conflicts, scheduling problems, work complications, participation in international programs, etc., may enroll in one or more evening course(s) by completing the dual enrollment form which requires the approval of their advisor. Up to five places will be held in each evening class for day students who wish to enroll in the course at the time of the regular pre-registration. Additional students may enroll the first night of class on a space-available basis.

The day student's tuition will be determined by total hours enrolled (day plus evening) assessed at the day rate. In addition, the student must pay a dual enrollment fee of \$50 per course.

3. Day students may register for a course not offered in the day division by completing the dual enrollment form requiring the written approval of the advisor. Because the course is not offered in the day division, the dual enrollment fee will not be assessed.

4. Students enrolling in co-sponsored courses (cooperatively offered between day and evening) will not be charged the dual enrollment fee. Enrollment in these courses does not require the completion of the dual enrollment form.

5. Evening students who wish to enroll in one day course may do so each semester by obtaining a course card from the advising office and paying tuition assessed at the day rate for part-time students.

The Library

The Charles F. Curry Library plays a vital role in the academic life of William Jewell College. Located at the center of the campus quadrangle for easy access, the library furnishes facilities and materials for reference, research, and independent study. The open stack system allows students to browse through a collection of over 175,000 volumes and 700 periodicals, with thousands of government documents and new volumes added annually.

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A staff of professional librarians instructs in the use of all materials in the thoroughly equipped facility.

Curry Library, a four-story colonial style brick building, contains the private library of Charles H. Spurgeon, the great English preacher; the Dr. Louis Mertins Collection of signed manuscripts, first editions, and holographs; the "Ted Malone Collection of Poetry"; the famous "Hubmaier Collection" of the great Anabaptist reformer; and the William E. Partee Center for Baptist Historical Studies, sponsored by the college and the Missouri Baptist Historical Society, a collection of thousands of Baptist papers and other important historical material.

A Learning Resource Center, located in Pillsbury Music Center, provides audiovisual playback facilities in support of classroom activities. The latest in listening/viewing technology is available for individual and small group use.

Preparation for Special Careers

Believing that a liberally educated person is also an individual of high competence, the college prepares students for responsible professional roles in society. Some patterns of professional and pre-professional studies are outlined below.

Arts and Sciences. William Jewell College is fully accredited by the North Central Association of Colleges and Secondary Schools and approved by the Association of American Universities. Students are prepared to enter the finest graduate schools in the country with full undergraduate credit. Students who expect to attend graduate school must, however, have superior academic records.

Students are advised to study the catalog of prospective graduate schools to ensure an undergraduate program which meets the special requirements of that school. The student's major professor should be consulted in planning a program of studies leading to graduate work.

Through a special grant, a William Jewell student may receive a scholarship for graduate study at Brown University, Rhode Island. The Marston-William Jewell Scholarship for graduate study at Brown Graduate School involves a nomination by William Jewell faculty and acceptance for admission by Brown. Further information on the scholarship is available from Brown University.

Business. The department of business administration and economics offers both general and professional training, preparing students for either graduate school or immediate entry into business or industry. The department seeks to equip students with a well-rounded knowledge of the dynamic character of economic society and the responsibilities faced by professionals in the business field.

Dentistry. Admission into a college of dentistry requires at least two full years of work in an accredited liberal arts college, comprising not less than 60 semester hours. Students should consult the catalog of the school they plan to enter. Required courses usually include two semesters of each of the following: biology, English, inorganic chemistry, organic chemistry and physics.

Undergraduate preparation also should include courses which broaden the intellectual background of the student. Recommended elective subjects include advanced courses in business, English, foreign language, history, philosophy, political science, psychology, and sociology.

Education. William Jewell College has long served the communities of America by educating teachers for public schools, colleges and universities. The department of education provides preparation for elementary school teachers, subject area teachers in high school or junior high school and teacher/athletic coaches. In addition, work is available toward certification in fields of special education. Through careful planning, students can receive both the baccalaureate degree and state certification for teaching.

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The department of education offers excellent undergraduate preparation for graduate study at the master's or doctoral level. Many William Jewell alumni are active in professoriates at major universities and colleges in the United States.

Engineering. William Jewell College is one of a limited number of liberal arts colleges which have entered into an agreement with Columbia University for a "three-two" program in engineering. After three years in residence at William Jewell College and two years at the Columbia University School of Engineering, the student can achieve both the A.B. degree and the B.S. degree in engineering.

William Jewell College also maintains similar "three-two" plans with Washington University and the University of Missouri at Columbia and Rolla.

Students who expect to receive an A.B. degree before entering an engineering school should major in chemistry, mathematics, or physics, depending upon the type of engineering school in which they plan to complete their studies. Since the semester-hour load is unusually heavy, students are advised to plan their work very closely with the official advisor for this specialized program.

Pre-Engineering Program of Studies. For students intending to complete professional study at Columbia University, New York; Washington University, St. Louis; or the University of Missouri at Columbia or Rolla, the following program should be followed:

Freshman

FIRST SEMESTER	HRS.
Chemistry 101	4
Mathematics 199	4
English 100	4
American History/Western Civ.	4
	<u>16</u>
SECOND SEMESTER	HRS.
Chemistry 102	5
Mathematics 200	4
Communication 100	4
Graphics 105	2
P.E. 100 + Activity	2
	<u>17</u>

Sophomore

FIRST SEMESTER	HRS.
Mathematics 201	4
Physics 213	5
Foreign Language	4
Religion	4
	<u>17</u>
SECOND SEMESTER	HRS.
Physics 332 or 318	3
Physics 214	5
Foreign Language	4
Humanities	4
	<u>16</u>

Junior

FIRST SEMESTER	HRS.
Physics 443	4
Physics 322-323	4
Social Science	4
Humanities	4
	<u>16</u>
SECOND SEMESTER	HRS.
Mathematics 202 or 281	4
Physics 316-317	4
Literature	4
Social Science	4
	<u>16</u>

Forestry. William Jewell College, in cooperation with the School of Forestry of Duke University, offers a five-year coordinated program in forestry (three years at William Jewell and two years at Duke University), leading to both the bachelor of arts and master of forestry degrees. Applicants for this liberal arts-forestry program should so indicate at the time of enrollment in college. Details of the pre-forestry curriculum are available in the department of biology.

Journalism. Courses needed for admission to professional schools of journalism usually include Freshman English, 4 semester hours; literature, 6 semester hours, including 4 semester hours of British literature; biological or physical science, with lab, 4 or more semester hours; economics, 4 semester hours; foreign language, through completion of the intermediate (third semester) course; political

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science (American Government), 4 semester hours; sociology, 4 semester hours.

Law. The American Bar Association recommends that students expecting to enter an accredited law school should pursue undergraduate work with the following objectives in mind: 1) clear comprehension and concise expression in the use of language, 2) historical and critical understanding of human institutions and values, 3) creative power in thinking. Courses in biology, debate, economics and accounting, English, history and government, logic, mathematics, psychology, sociology, and speech are recommended. There is considerable latitude in choice of subjects, but intensive application and a high level of attainment are important.

Medical Technology. In cooperation with North Kansas City hospital, William Jewell College offers a four-year program leading to a bachelor of science degree and registration as a medical technologist. The first three years are spent in residence at William Jewell with the fourth year in the hospital program. After the successful completion of the program, a student may be certified in this field by passing one of several examinations. A student in this program may major in either biology or chemistry.

The following curriculum would lead to a B.S. degree in **biology** with an emphasis in medical technology:

Biology—

Required: 125, 126, 221, 224, 346, 410.

Recommended: 243, 325, 420, Parasitology

Chemistry—

Required: 102 (or 105), 301-302, 303.

Recommended: 206, 306.

Mathematics—

Required: 145.

Recommended: 216, familiarity with computers.

Physics—

Required: 111, 112 (or 213, 214).

General Education Requirements:

English 100

Communication 100

Physical Education 100

1 hour of PE activities

4 hours of religion

12 hours of social Sciences

8 hours of Humanities (including 4 hrs. in literature)

The following curriculum would lead to a B.S. degree in **chemistry** with an emphasis in medical technology:

Chemistry—

Required: 102 (or 105), 206, 301-302, 303.

Recommended: 306.

Biology—

Required: 125, 221, 244, and 410.

Recommended: 126, 243, 325, 346, 420,

Parasitology.

Mathematics—

Required: 145.

Recommended: 216, familiarity with computers.

Physics—

Required: 111-112 (or 213-214).

General Education Requirements:

English 100

Communication 100

Physical Education 100

1 hour of PE activities

4 hours of religion

12 hours of social Sciences

8 hours of Humanities (including 4 hrs. in literature)

Medicine. Students planning to study medicine should consult the chairman of the premedical advisory committee. The number of years of pre-medical work required varies with different schools. Some schools require only three years, but most now require the bachelor's degree. Students who expect to be admitted to a medical school must maintain a high scholastic record.

Admission to a health professional school is based on an aptitude test, scholastic record, and recommendation from the college pre-medical advisory committee.

The general course requirements are as follows: chemistry, 16 to 20 semester hours;

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biology, 8 to 16 semester hours; physics, 8 semester hours; English, 6 to 10 semester hours; math, 4-8 semester hours. The remaining courses should be selected from the Humanities or Social Sciences: economics, English literature, history, philosophy, psychology, sociology. Some schools require a reading knowledge of French or German. Students should consult catalogs for medical schools that they expect to attend.

Some professional health options for students are allopathy, dentistry, optometry, osteopathy, podiatry and veterinary medicine.

Ministry. William Jewell College follows closely the recommendation of the American Association of Theological Schools on pre-seminary study. A summary of college recommendations follows:

I. The function of pre-seminary studies

1. College work of pre-seminary studies should result in the ability to use the tools of an educated person in written and oral expression.
2. The aim of the study is to acquaint the student with some of the ideas which have influenced modern civilization and which will guide the student in evaluating life situations.
3. The college work of a pre-seminary student should result in an acquaintance with the world. It will show the relationship of the physical sciences and Biblical revelation.
4. The college work of a pre-seminary student should stimulate research, independent inquiry, and the formulation of ideas into cogent expression. At least one discipline should be explored in sufficient depth to give the student a sense of mastery and achievement.
5. The function of this study is to present opportunities for the development of Christian faith and vocational commitment through social and Biblical studies.

II. Subjects in pre-seminary study

By combining their study in the religion department with a complementary area of study at William Jewell, students will be better prepared for the significant learning

experiences of seminary and for the field of service to which they have been called. The religion major normally requires a minimum of six four-hour courses beyond the basic religion course required of all William Jewell students. This requirement leaves enough hours to pursue another area of study to provide a solid liberal arts base for seminary study.

Possible combinations are:

Pastoral Ministry—religion + literature or history

Church Music—religion + music

Church Recreation—religion + physical education

Evangelism—religion + communication

Missionary—religion + foreign language

Christian Counseling—religion + psychology

Denominational Service—religion + business

III. General Information

1. All pre-seminary students are to have the chairman of the department of religion or a professor of that department on their advising committee throughout their course of study. When a major other than religion is chosen, a joint program of advising will be undertaken with the chairman of the department of major study advising in academic matters pertaining to the major. The double major (religion plus another area) is strongly recommended.
2. Students desiring continuation of their Church-Related Vocation tuition concession are advised to see the director of the Church-Related Vocation program at each fall registration period.

Nursing. The nursing program reflects the broad educational values of William Jewell College and leads to a bachelor of science degree which is entry requirement for professional nursing practice. A carefully planned four-year curriculum includes courses in the liberal arts and sciences, nursing courses, and courses supporting the professional studies. The program and admissions procedures are described in the nursing section of Courses of Study.

Occupational Therapy. In cooperation with Washington University of St. Louis, William

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Jewell offers a three-two program in occupational therapy leading to an A.B. from William Jewell and a B.S. from Washington University. The first three years are spent at William Jewell and the final two at Washington University.

Students must complete at least 60 semester hours at William Jewell with an average grade of B or better. The following courses are required:

English Composition	3 cr. hrs.
Sciences/Laboratory	
Biology/Zoology	6 cr. hrs.
Chemistry	4 cr. hrs.
Physics	3 cr. hrs.
Math/Statistics	3 cr. hrs.
Social Sciences	
Psychology	6 cr. hrs.
(Child Development and Abnormal Psychology)	
Sociology	6 cr. hrs.
Electives	29 cr. hrs.

For more information on the program, contact the chairman of biology.



STUDENT INFORMATION

William Jewell College encourages applications from students who are serious about enrolling in a co-educational liberal arts college, and who have given indication in their secondary school experience that they are sufficiently mature to profit from and contribute to the college. Admission to William Jewell College is on a selective basis. Owing to the limited number of spaces in the freshman class, students are encouraged to apply for admission early in their senior year of high school.

Requirements for Admission

The Admissions Committee considers the following factors in admitting students to the college:

- Class standing in the upper half of the graduating class;
- Scores from the SAT or ACT;
- Recommendation by the high school counselor or principal.

The college strongly recommends that graduates from accredited high schools have 16 units of high school credit according to the following:

- 4 units of English. One may be in speech or debate; two must emphasize composition or writing skills.
- 3 units of mathematics. Algebra I and higher units must be used for the requirement.
- 2 units of science. General science is not included; one unit must be a laboratory science.
- 2 units of social studies.
- 2 units of a foreign language.
- 3 additional units selected from foreign language, English, mathematics (Algebra I and higher), science or social studies.

Admission is open to all students meeting these standards regardless of race, religion, creed or national origin.

Individual consideration is given to veterans and other mature applicants who may not meet all requirements. The college reserves the right to deny admission to any applicant whose academic history or personal qualifications are judged to be unsuitable for college work and living at William Jewell.

Early Admission

High school students demonstrating exceptional academic ability may take eight credit hours during the summer session following their junior year. Following graduation and enrollment in William Jewell, the credit will be recorded on the official college transcript. Students attending William Jewell the summers following their junior and senior years in high school may enter college in September with 16 semester hours of college credit already earned.

Transfer Students

William Jewell College welcomes transfer students from two- and four-year colleges. Students should be aware that actual degree requirements vary from institution to institution. If you are considering transferring to William Jewell, we encourage you to examine the academic program requirements early in your college experience so that you can begin making transfer plans in advance.

In order to be considered for admission to the college, transfer students must:

1. Submit the application for admission, along with a \$25 non-refundable processing fee.
2. Forward a copy of your high school transcript.
3. Have official copies of your transcripts forwarded from *EACH* college previously attended.
4. Have a statement of honorable dismissal on file from the *last* college attended.
5. Students applying for financial assistance must have a financial aid transcript on file from *each* college previously attended.

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Student credits will be accepted as they apply to the college curriculum offered at William Jewell College, provided the student presents an overall C average (2.0 on a 4.0 scale). Grades below C in freshman English cannot receive credit at William Jewell College. Students who have been permanently suspended from another college cannot be accepted at William Jewell. No more than 64 semester hours of work will be accepted from a community college, and that number includes any coursework completed at a four-year college prior to attending a community college. A minimum of 30 semester hours must normally be completed in residence at William Jewell, including at least 12 hours in the major, to meet degree requirements. Transfer students must successfully complete the William Jewell College Writing Proficiency Test before registering for hours beyond 60 or before the end of their third semester at Jewell, whichever comes later.

Application Procedure

A candidate for admission is requested to submit:

1. A completed application for admission (available from the William Jewell College admissions office). A \$25 non-refundable fee must accompany each application before processing begins.
2. Two copies of the high school transcripts or a record of credits from other post-secondary institutions.
3. The report of results from the SAT or ACT.
4. Two letters of recommendation.

Accepted Applicants

Students who receive confirmation of acceptance by the college for study in the day program are required to post a \$25 enrollment deposit. This deposit is refundable when the student graduates or withdraws from the college, provided the student's account is clear. A student who has been enrolled one semester or longer and who decides not to continue enrollment should notify the student affairs

office 30 days before the beginning of the academic term in order to receive a refund of the enrollment deposit.

Resident Applicants

In addition to the enrollment deposit, individuals who want to be resident students must post a room reservation deposit of \$100 within 30 days after notice of acceptance. This deposit must accompany applications submitted after June 1. While making the deposit cannot guarantee a place in a residence hall, typically housing assignments are made in August and reflect the order in which the deposits are received.

After June 1 room deposits for new students may be refunded only if the applicant is physically unable to enroll or if the college cannot provide residence hall space.

Once the student occupies a residence hall room, the fee becomes a damage deposit as well as a reservation deposit for the following semester. If a student intends not to return to the residence hall, the student may request a refund at the student affairs office. Where no damages have been assessed and all other financial obligations to the college have been satisfied, the deposit is refundable. A student notifying the student affairs office prior to June 15 of the intention not to return in the fall will receive a full refund; between June 15 and August 1, a \$50 refund; after August 1, no refund.

Expenses

	SEMESTER	YEAR
Tuition and Fees	\$2,645	\$5,290
Activity Fee	120	240
Room	500	1,000
Board	710	1,420
	<u>\$3,975</u>	<u>\$7,950</u>

Other estimated costs will vary on an individual basis. For most students they will not exceed these estimates:

Books and supplies	\$350
Personal expense and transportation	\$1,350

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Students registering for more than 17 credit hours per semester pay \$100 for each credit hour above 17. However, this fee may be waived for up to two hours' credit per semester if the excessive hours result from enrollment in the Chapel Choir (303), Concert Band (304), Symphony (305), or Foundations 220 W. (Students who wish to register for more than 19 credit hours per semester must have the approval of the Dean of the college.) Students registered for fewer than 12 semester hours pay tuition at the rate of \$230 per semester hour.

Every effort is made by the college to avoid tuition increases. Nonetheless the college must reserve the right to alter tuition and/or other charges without notice.

Special Fees

Late registration	\$35
Late payment fee	\$35
Supervised Student Teaching	\$75
Graduation fee	\$40
Auditing any course, per semester hour	\$100
Credit by examination, per semester hour	\$25/hr.
Returned checks	\$15
Dual Enrollment	\$50
Deferred Payment	\$15-45

All accounts are due and payable for each semester on or before the first day of classes. Those who do not satisfy their financial obligations before the first day of classes may be charged a late payment fee. To be prepaid, accounts are to be settled on or before Aug. 15 for the fall semester and on or before Jan. 15 for the spring semester. Time payments may be arranged with the business office.

Music and P.E. Fees

In addition to tuition charges, fees for private one-half hour music lessons and class music lessons per semester are assessed:

One lesson per week	\$ 85
Additional lessons, per lesson	\$ 50
Class lessons	\$ 40

Physical education fees are:

Scuba	\$ 55
Bowling	\$ 20
Horsemanship	\$ 55

Refund Policy

Tuition is credited for withdrawal for other than disciplinary reasons in accordance with this schedule:

Within first two weeks	80%
Within the third week	60%
Within the fourth week	40%
Within the fifth week	20%

Credits cannot be made after the fifth week. Cash refunds will be made on any overpayment upon request.

This schedule applies to students reducing registration to 17 credit hours or whose registration is altered from full-time to part-time classification (below 12 credit hours).

All other fees and room charges are non-refundable. While students withdrawing during the semester may receive a 50% credit on their board on a pro rata basis, 50% of the board cannot be credited. If withdrawal results from protracted illness certified by an attending physician, the unused portion of the board paid in advance will be credited. Credits cannot be made when a student is dismissed for disciplinary reasons.

Willingness to assume financial responsibility is a mark of increasing maturity. Students whose accounts with the college are unsatisfactory are not issued grades, transcripts or diplomas. Room, board and other privileges may be suspended as a result of unsatisfactory student accounts. A low-cost deferred payment program is available through Tuition Plan, Inc., Academic Management Services, or College Plan A or B. For further information, contact the business or financial aid offices.

Student Financial Planning

While the cost of quality education is substantial today, any student possessing the

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necessary academic skills and motivation should not be denied an opportunity to attend college for lack of financial resources. Many students attending William Jewell College receive some form of financial assistance.

Eligibility for financial assistance is determined on the basis of need, outstanding academic ability and/or special abilities. For most students, William Jewell College offers a financial plan composed of one or more forms of financial assistance to help meet the financial need. These are scholarships, grants, loans and work.

Students seeking financial assistance on the basis of financial need must complete the William Jewell College student financial planning application and the ACT Family Financial Statement (FFS) or College Scholarship Service Financial Aid Form (FAF). Where need is not a factor in the award (i.e., the Pastor's Christian Leadership Award, academic excellence scholarship) the FFS or FAF is required only if assistance is sought beyond the amount of the special grant. It is recommended, however, that all applicants file the FFS or FAF each spring.

The following standards of satisfactory academic progress must be maintained to keep one's eligibility for financial assistance:

Hour Completion Requirement. A student is encouraged to plan the course load in order to complete approximately one-fourth of the graduation requirements each year. A student enrolled as full-time (12 hours or more) must complete a minimum of 24 hours per year; three-quarter time students (9-11 hours) must complete a minimum of 18 hours per year; half-time students (6 hours) must complete a minimum of 12 hours per year. Students not completing the required number of hours will not be eligible for financial assistance until the hours are acquired.

Grade Point Average Requirement. Those who receive financial assistance must have a cumulative grade point average high enough to avoid academic probation. The following categories will help to develop a reasonable academic and extra class load.

<i>Class/Min. G.P.A.</i>	<i>Min. Aid G.P.A.</i>
Freshman/1.5	2.0
Sophomore/1.75	2.0
Junior/2.0	2.0
Senior/2.0	2.0

A student is designated as being on "academic probation" when the grade point average is below 2.0. A student so designated is ineligible to receive college, state, and federal student assistance. A student who fails to raise the cumulative G.P.A. to 2.0 by the end of the semester following placement on probation will lose financial assistance for the following semesters or until the student has achieved satisfactory progress.

A student whose cumulative grade point average falls below the minimum G.P.A. for the class standing is dropped for scholastic deficiency.

A student readmitted to the college after academic dismissal is not eligible for federal, state or college-funded financial assistance until the minimum cumulative G.P.A. of 2.0 is met and the required number of credit hours are acquired.

Appeal Procedure. A student whose assistance is terminated in accordance with this policy may appeal the termination to the Student Financial Aid Committee. Appeals should be submitted in writing to the Associate Dean for Admissions, Financial Planning and Records. The committee will notify the student of its decision.

In order to maintain academic scholarships, the student must complete a minimum of 12 hours per semester with a cumulative grade point average of at least 3.0. Scholarship renewal eligibility is reviewed at the end of the academic year. A student whose cumulative grade point average falls below 3.0 will be allowed one semester to raise the cumulative G.P.A. to 3.0. A student who fails to raise the G.P.A. will lose the academic scholarship. A student whose academic scholarship is dropped will not be eligible for an academic scholarship until a cumulative G.P.A. of 3.5 is achieved. The scholarship award will be determined at that time.

Full-time students (12 hours or more) are expected to complete graduation requirements within ten semesters. Work taken in excess of ten semesters will not qualify for student assistance. If a student begins a semester as a full-time student, that semester is counted in the ten semesters allotted for student assistance eligibility, even though the student becomes a part-time student during the semester.

Part-time students (fewer than 12 hours) are expected to complete graduation requirements within 16 semesters and may qualify for student assistance for no more than 16 semesters.

Semesters during which a student withdraws after the fifth week of the semester will be counted in the total number of semesters for which a student is eligible to receive student assistance.

No financial assistance will be available for courses which are repeated in order to raise a grade. The following letter grades will not be counted toward graduation: F= failure; IP= in progress toward the Oxbridge examinations; PR= in progress; R= repeat; W= withdrew; WF= withdrew failing; WD= left the college; FA= failed pass/fail; NR= not reported; AU= audit. Hours for repeated courses will not be counted in the total number of hours in assessing whether a student is full-time or part-time in qualifying for assistance. For example, a full-time student must be taking at least 12 hours per semester in addition to courses being repeated. An Incomplete (I) will not be included in the minimum 12 hours completion requirement for assistance eligibility.

Graduates who return for a second degree will not qualify for college assistance.

Transfer students will be evaluated individually by the financial aid staff to determine the number of semesters for which transfers will be eligible for assistance.

Students will be limited to \$2,000 combined William Jewell grants as part of the plan. No exceptions will be allowed by the Student Financial Aid Committee.

Forms of Assistance

Scholarships and grants, assistance which does not have to be repaid, include: Academic Excellence Scholarships, Achievement Awards, National Merit Scholarships, Spencer, Volker and Heritage Scholarships, Pastor's Christian Leadership Awards, Church-Related Vocations, Acteen and Royal Ambassador Service Aides, Grants-in-Aid, Hester Scholarship, Ministers' Dependents, Pell Grants (BEOG), Missouri Student Grants (MSG), and Supplemental Educational Opportunity Grants (SEOG).

Loan assistance, which must be repaid, also is available: Missouri Guaranteed Student Loans, Carl D. Perkins Loans (formerly NDSL), Federal Nursing Student Loans, William Jewell College loans, and various monthly payment plans.

Work opportunities are offered through college work/study programs and off-campus employment.

The current student financial planning brochure, distributed by the office of student financial planning, should be consulted for additional application procedures. Student consumer information is found in the official student handbook.

Church Ministries Practicum

The church ministries student is eligible for an \$1800 grant-in-aid each academic year. The student qualifies for the grant when the director of the H.I. Hester Center for Christian Ministry receives notification from the local church that the student is pursuing a church-related vocation. This grant is subject to the rules and the regulations governing financial assistance.

Awards Convocation

Each year during an Awards Convocation outstanding students are recognized and given appropriate awards and honors. The highest

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honor is the Faculty Award, presented to a student who has spent the entire undergraduate career at William Jewell and who has a grade point average of 3.75 or higher. It is awarded on the basis of academic achievement and exemplification of the highest ideals of a liberal education at William Jewell College.

Student Life

At William Jewell College, the living/learning experience of student life begins the minute a student steps into the residence hall and meets a roommate with different ideals, background and aspirations. That first step is only one of the many opportunities students have to broaden their own experience by exploring the many facets of student life, a valued extension to academic work at William Jewell College.

A program of lectures, social events, and registration procedures introduces new students to William Jewell College life. General orientation for all new students is conducted during registration week, in accordance with the calendar.

Available to all students are career counseling, personal counseling, and study skills instruction. The office of career development assists students in job referrals, career exploration, on-campus interviews, resume preparation, interview procedures, and job placement. The learning skills office provides courses in learning skills and speed reading in addition to assisting students with learning problems.

The counseling center offers professional services to students making educational, vocational and personal decisions. Trained counselors are available to administer and interpret various tests helpful in assessing the student's aptitudes and interests.

New Horizons

Students who are 22 years or older will find the New Horizons Program for re-entry

students at William Jewell geared to their specific needs. Those students entering college for the first time or after several years of absence will find support services readily available. Special information on applying for admission, scholarships and grants, academic advising, test-out procedures, and other concerns is available through the admissions office.

Fine Arts Program

Now in its 23rd season, the nationally recognized William Jewell Fine Arts Series brings outstanding concert and stage artists to campus and community. Among the performing artists who have appeared in the series are Luciano Pavarotti, Leontyne Price, Itzhak Perlman, Carlos Montoya, Rudolf Nureyev and The National Ballet of Canada, and Beverly Sills. Students attend the Fine Arts Series at no cost.

Students also enjoy major pop and jazz artists through the College Union Activities concert series. The best in American and foreign films is offered through a film series.

Achievement Day

Each year, Achievement Day marks the celebration of the William Jewell tradition as the "Campus of Achievement." Outstanding alumni are invited back to campus to receive citations for achievement and to lead seminars in their professional fields for interested students. The formal occasion brings nationally prominent speakers to William Jewell for a convocation address on campus and a banquet address at a Kansas City hotel. Keynote speakers have included Harry S. Truman, Lyndon B. Johnson, Billy Graham, Norman Vincent Peale, General Maxwell Taylor, astronaut James Irwin, Senator Hugh Scott, William F. Buckley, Jr., Mrs. Coretta Scott King, and Beverly Sills, among others.

Athletics—Varsity and Intramural

William Jewell College enjoys an outstanding record of achievement in athletic competition.

The football team made NAIA history by advancing to play-offs four consecutive years. The college is a member of the Heart of America Athletic Conference and competes in the following conference sports: for men—baseball, basketball, cross-country, football, golf, soccer, tennis, track, and wrestling; for women—basketball, softball, swimming, tennis, track and cross-country, and volleyball. The National Association of Intercollegiate Athletics standards of eligibility serve as the guideline for the conference sports activities. A strong program of intramural men's and women's sports is also offered.

Forensics

The forensics program at William Jewell is an area traditionally strong. Students regularly earn state and national awards. The college consistently ranks among the top in CEDA (Cross Examination Debate Association), sharing such honors with larger universities. The national discussion tape award for four years went to the William Jewell team. Capable freshmen who are sufficiently prepared find equal opportunities to compete. The program offers competition in both debate and individual events. Squad members travel to competitions in the Midwest and other locations, such as Texas, Nevada, and Colorado.

Music

A strong music department at William Jewell encourages all students to make music! Whether in a class, in an ensemble, or through an applied study opportunity, the music department can enrich the lives of students no matter what their majors are.

Performance in the choral area is possible through the Concert Choir or Chapel Choir, both of which tour in the U.S. or abroad, and in Chamber Singers (a group of select freshmen).

Instrumental options are available through Symphonic Band (which takes annual tours), or through Jazz Ensemble, Liberty Symphony Orchestra, Flute Choir, Brass Ensemble, Chamber Strings and various chamber ensembles.

Handbell Choir and the Opera Workshop round out the performing opportunities for students.

Private study in piano, organ, voice, guitar and woodwind, percussion, brass and stringed instruments is available.

Lecture Series

The lecture series reflects the college's genuine concern for student spiritual needs and increasing intellectual maturity. This series brings prominent speakers to the campus to present interdisciplinary examinations of contemporary life from the Christian perspective. The Walter Pope Binns Distinguished Lectureship, named in honor of the late William Jewell president, and supported by a gift of the Callaway Foundation, brings internationally known Christian scholars to the campus each year.

College Chapel

The college community is offered the opportunity to worship together at chapel each Thursday morning and at other times established by the Chaplain and the Committee on the Christian College. Students and faculty members share their faith in this hour of prayer, meditation, singing and preaching. In keeping with the Baptist heritage of the college, attendance at worship is a matter of personal choice.

Christian Student Ministries

Christian Student Ministries at William Jewell College seeks to expose each student, staff, and faculty member to the Christian faith and encourage the college community to live according to this high standard. All activities fall under the direction of Christian Student Ministries, which is headed by a president elected by the student body.

On-campus activities include Bible studies, campus vespers, campus worship, fellowships and retreats and the Fellowship of Christian Athletes.

In order to share the Christian faith off-campus, CSM sponsors drama teams, puppet teams, Confronters and First Love singing

STUDENT INFORMATION

groups, Adopt-A-Grandparent visiting program, revival teams, and special mission projects. All CSM activities are under the leadership of the Director of Student Ministries.

Student Government

Every student at William Jewell has a voice in government through Student Senate. This elected governing body operates in open session under a student-drafted constitution.

While the final vote rests with representatives,

all students have the right to express their opinions at every Senate meeting.

William Jewell students are involved in the highest level of policy formulation, serving on faculty committees, meeting with the College Conduct Committee, and attending meetings of the Board of Trustees.

Students serving on the College Union Activities Board administer programs of cultural, educational, recreational and social interest to students, faculty and alumni. The board sponsors films, concerts and speakers' series.



Student Organizations

Student organizations at William Jewell offer a broad spectrum of activities to meet the social and service needs of students. Twenty-seven nationally affiliated and 33 campus-wide organizations provide opportunity for involvement in religion; fine arts; professional, social and service fraternities and sororities; music ensembles; forensic and drama groups; ethnic organizations; radio station; student publications; athletics; student government and departmental clubs. A complete listing of student organizations and descriptions can be found in the student handbook/calendar, *Around the Columns*.

Residence Program

William Jewell offers a four-year residential program, exposing each student to the finest living/learning environment college resources can provide. All unmarried students not living at home are expected to participate in the residential program. Fraternity houses are considered part of that program.

All students living in residence halls are served meals in the college union. Each student provides pillows, linens and bed covers. All students are subject to the campus regulations and policies of the college as they affect residence halls and all areas of student life. These regulations are fully outlined in the student handbook/calendar, *Around the Columns*. Students should read this handbook carefully to become familiar with those regulations that provide for a sound, workable college community.

Student Publications

Students have the opportunity to contribute to the weekly student newspaper, *The Hilltop Monitor*. One need not be a journalism major to contribute to this major publication.

Theatre

The college sponsors wide-ranging theatre opportunities in a variety of productions. The theatre program takes a liberal arts approach. As with other educational opportunities at William Jewell, the theatre program broadens

the students' perspectives, as audience, as actor and as technician. Many opportunities in acting, directing, design and theatre management are open to persons from all walks of campus life.

Most theatre productions are held in the Garnett M. Peters Theater, a flexible facility featuring proscenium, thrust or arena shows. Because of the new, adaptable Peters Theater, students can experiment with many audience-actor relationships.

Radio

The college owns and operates a non-commercial 250-watt FM radio station providing a network of communication for the campus and community, and offering opportunities in broadcasting for students. KWJC broadcasts quality programming as the "Voice of Achievement."

Art Gallery

The Stocksdale Art Gallery is an exceptional exhibit space for a variety of art shows and the college's permanent collection. Senior art majors also display the best of their works in the gallery.

Health Center

The Leonard Skilling Student Health Center is located in Ely Hall. The center is under the full-time direction of a registered nurse, and college physicians report daily to treat students requiring medical attention. Many competent private physicians in the Kansas City area are readily available. While the college provides no health or accident insurance, a voluntary insurance plan is available at additional cost to participating students. Parents are encouraged to include college-age students in the family health plan.

Motor Vehicles

All motor vehicles, including motorcycles, should be registered through the security office. The parking and operation of vehicles is subject to safety regulations provided at the time of registration. Further information is contained in student and faculty handbooks.



COURSES OF STUDY

Courses in the college are organized by academic departments, or disciplines, with an increasing number of courses offered along interdisciplinary or cross-departmental lines. Students may choose from 31 conventional areas of concentration, "majors," or they may design an area of concentration in consultation with their advisor, using the resources of one or several academic departments.

Some examples of self-designed curricula are noted in the section on Curriculum, in this catalog. Conventional majors include accounting, art, biology, British studies, business administration, chemistry, communication, computer science, economics, elementary and secondary education, English, French, history, international relations, management, mathematics, medical technology, music, nursing, philosophy, physical education, physics, political science, psychology, public administration, public relations, religion, sociology, Spanish, and systems and data processing.

Students choosing an area of concentration, whether conventional or non-traditional, will need to see that it meets certain guidelines:

1. It must have an inner logic and coherence based on clearly-stated principles of organization. The coherence should be easy to establish in traditional departmental majors, though even here it should be thought out so that the principles of organization are clear. In a non-traditional major these principles will be especially important to the validity of the program.
2. It must be clearly-defined in scope so that it is not excessively broad or narrow.
3. It must take into account outside requirements that may affect the student's goals: teacher certification, graduate school admission, etc.
4. It must take into account the language or competency requirements associated with the proposed area of concentration. These requirements will be established in the same manner as specific course requirements for the area.

The college reserves the right to add courses or omit courses for which demand is insuffi-

cient to justify offering. Credit for courses is indicated in semester hours. Courses in the series 300 and 400 are primarily for juniors and seniors. The official schedule of classes is presented in a printed sheet distributed at the beginning of each semester.

With the written approval of the instructor, the department chairman, and the Dean of the college, any courses herein listed may be offered for fewer than the number of credit hours indicated.

COURSES LISTED MEET EVERY SEMESTER UNLESS OTHERWISE INDICATED.

Art

Professor Johnson, chairman.

Major: 36 hours; specifically including Art 203, 250, 251, 303, 325, 450. Students completing a second major in art must also complete the General Education requirements for the bachelor of arts degree.

Students in printmaking are required to donate examples, mutually acceptable to student and department. Graduating art majors are required to donate an example of their work, mutually acceptable to student and department.

Students majoring in art may receive certification to teach art in grades K-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification*, available in the department of education office.

103. Ceramic Design. 4 cr. hrs.
Hand constructed and wheel thrown pottery. Basic glazing techniques.

125. Drawing and Painting. 4 cr. hrs.
Basic drawing and painting techniques.

203. Visual Design. 4 cr. hrs.
Basic composition; color. Essentially two-dimensional with various materials. First semester.

225. Drawing and Painting. 4 cr. hrs.
Advanced drawing; oil painting techniques. Prerequisite: ART 125.

ART/BIOLOGY

240. Artforms: Understanding and Enjoying the Visual Arts. 4 cr. hrs.

An introductory course designed to promote understanding and enjoyment of the visual arts. First semester.

250. Art History. 4 cr. hrs.

Survey of prehistoric through 14th century. First semester.

251. Art History. 4 cr. hrs.

Survey of 15th century up to and including 20th century. ART 250 recommended but not required. Second semester.

303. Sculptural Design. 4 cr. hrs.

Three-dimensional and sculptural design. Second semester.

312. Printmaking Studio. 4 cr. hrs.

Basic techniques and experiments in woodcuts and silkscreen. Prerequisites: ART 125, 203. Second semester.

325. Drawing and Painting. 4 cr. hrs.

Advanced painting. Prerequisites: ART 225, 203.

149, 249, 349, 449. Special Techniques. 2 cr. hrs.

Includes but not limited to calligraphy, airbrush, fibers, figure drawing, jewelry, photography, sculpture, water color, as student demand and faculty availability allow course to be offered.

450. Senior Portfolio and Exhibit. 2 cr. hrs.

Selection of a special project to be completed in time for senior exhibit. Regular consultation with department chairman.

Biology

Professor Dilts, chairwoman; Professor Wagenknecht; Associate Professors Mark, Newlon.

The biology department offers a bachelor of arts degree in biology. Upon completion of a biology major, a student will have been exposed, through comprehensive introductory biology courses and a wide selection of advanced courses, to a broad biology background while having had the opportunity to explore specific areas of interest through special topics seminars and a senior thesis project. In addition, the stu-

dent will have been enriched by seminars that focus on the history and philosophy of science and the moral/ethical and socio-political dimensions of biology. A degree in biology would allow a student career options in education, science, medicine, biotechnology, and industry either through immediate entry into the career or further study at the graduate level.

The department also offers opportunities for study outside of the traditional major (see section in catalog entitled Preparation for Special Careers). Those interested in careers in health-related fields may earn a bachelor of science degree in biology with emphasis in medical technology or participate in a three-two program in occupational therapy with Washington University leading to a B.A. in biology and a B.S. in occupational therapy. For those interested in forestry, William Jewell offers a three-two program with Duke University leading to a master of forestry degree.

Required for a bachelor of arts degree in biology are the following:

Admission to the department:

- BIO 125 & 126 or the equivalent;
- 2.5 grade point average minimum;
- a formal application and interview

Chemistry:

8 hours minimum (organic chemistry is strongly recommended)

Physics:

8 hours minimum

Math:

(at least one semester of calculus is strongly recommended)

Senior thesis:

three-semester laboratory or library research project; BIO 398-401

Required courses:

BIO 125, 126—introductory courses
BIO 136 and 337—"enriched major" seminars

BIO 407—selected topics seminar
one course from botany offerings: BIO 210, 315 or 403

two courses from zoology offerings, one from each grouping (A,B): A—BIO 241, 244, 324, or 325; B—BIO 355, 356, or 430)

two courses from cell and molecular offerings, one from each grouping (A,B): **A**–BIO 346 or 420; **B**–BIO 221 or 410

BIO 107, General Biology, and BIO 212, Heredity and Society, are intended to meet distribution requirements for non-majors in the area of Mathematics and Natural Sciences and may not be taken to satisfy the biology requirements for the major. BIO 243, Human Anatomy, may not be taken to satisfy the requirements for a biology major.

Only grades of C or better will be accepted as satisfying the biology course requirements. Transfer students must complete a minimum of twelve hours in biology courses at William Jewell College toward the major.

Students majoring in biology may receive certification to teach biology in grades 7-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification* available in the department of education office.

107. General Biology. 4 cr. hrs.
An introduction to the methodology and fundamental concepts of the biological sciences. Intended for those students who do not plan to major in biology or a related area. Students intending to major in biology, nursing, or other pre-professional areas should enroll in BIO 125. First semester.

125. Cells and Systems. 4 cr. hrs.
An introduction to the study of modern biology. The student will study life's processes at the cellular level as well as how these activities are performed in tissues, organs, and organ systems. Intended for the pre-biology major or pre-professional fields related to biology. Required of all biology majors. First semester.

126. Organismal Biology. 4 cr. hrs.
A survey of the organisms found in the five kingdoms of the biological world, their evolution and relationships to the environment. Prerequisite: BIO 125. Second semester.

136, 337. Freshman and Junior Seminars. 1 cr. hr each
Seminars providing freshmen and junior biology majors the opportunity to respond critically to

the history, philosophy and ethics of science and to relate these concepts to the social and political concerns of the day. Prerequisites: For 136, a desire to be a biology major, successful completion of BIO 125 and enrollment in BIO 126. Second semester. For 337, Junior standing in biology. First semester.

210. Plant Biology. 4 cr. hrs.
A morphological and taxonomic study of the plant kingdom. Prerequisites: BIO 125, 126. Second semester.

212. Heredity and Society. 4 cr. hrs.
A course dealing with the social implications of heredity, particularly in such areas as human genetics, behavior, medicine, race, evolution, etc. This course is not intended for biology majors and is open to sophomores, juniors, or seniors having no more than one semester of biology, or by permission of the instructor. Alternating years. Second semester, 1988-89.

221. Microbiology. 5 cr. hrs.
Study of the structure, physiology, genetics, taxonomy and ecology of bacteria and viruses. Prerequisites: BIO 125 or equivalent; CHE 101 and 102 or equivalents. First semester.

241. Comparative Anatomy. 5 cr. hrs.
The study of the gross structural organization of representative vertebrate species. Prerequisite: BIO 125 and 126 or equivalent. Alternating years. Second semester, 1987-88. First semester, 1989-90.

243. Human Anatomy. 4 cr. hrs.
An introduction to the form of the human body. All organ systems will be considered. Some aspects of development of postnatal growth will also be discussed. Does not apply toward a biology major. Prerequisites: BIO 125 recommended. First semester.

244. Human Physiology. 4 cr. hrs.
This course is a comprehensive study of the functions of the human body. The major theme emphasizes homeostasis and how a dynamic counterbalance of all systems interacts to maintain the internal environment. Prerequisites: BIO 125, CHE 102 or equivalent. Second semester.

301. Environmental Field Studies. 2-6 cr. hrs.
A field study of environments distinct from those found in the Midwest. Offered on demand.

BIOLOGY/BRITISH STUDIES

315. Mycology. 4 cr. hrs.

A study of the fungal-like protista and the Kingdom Fungi. Prerequisites: BIO 125 and 126. Alternating years. Fall semester, 1988-89.

324. Developmental Biology. 4 cr. hrs.

The study of patterns and mechanisms of vertebrate embryonic development. Prerequisites: BIO 125 and 126; CHE 101 and 102 or equivalent. Alternating years. Second semester, 1987-88.

325. Histology. 4 cr. hrs.

The study of the microscopic anatomy and function of vertebrate tissue and organs. Prerequisites: BIO 125 and 126; CHE 101 and 102 or equivalent. Alternating years. Second semester, 1988-89.

346. Genetics. 4 cr. hrs.

Mendelian and molecular genetics. Prerequisite: 12 cr. hrs. of biology; CHE 102 or equivalent. Organic chemistry recommended. Open to juniors and seniors or by consent of instructor. Second semester.

355. Natural History I. 4 cr. hrs.

A study of the geology and ecology of aquatic habitats and the taxonomy of organisms inhabiting those habitats. Prerequisites: BIO 125 and 126. First semester.

356. Natural History II. 4 cr. hrs.

A study of the geology and ecology of terrestrial habitats and the taxonomy of organisms inhabiting those habitats. Prerequisites: BIO 125 and 126. Second semester, 1988-89.

398, 399, 400, 401. Senior Thesis

1-3 cr. hrs. each.

A three-semester (minimum) laboratory or library research project required for the major. The possibility also exists for projects of shorter duration, but these will not fulfill the senior thesis requirement. Both require consent of the department chairperson. Applications and syllabi may be obtained in the department chairperson's office.

403. Plant Physiology 4 cr. hrs.

A study of the principal physiological processes in plants, including water relations, food synthesis, digestion, translocation, respiration, and growth. Prerequisites: BIO 125 and 126; CHE 101 and 102 or the equivalent. Alternating years. First semester, 1987-88.

407. Selected Topics in Biology 1 cr. hr.

A seminar class that allows an in-depth study of topics selected from various fields in biology, e.g., human genetics, neurophysiology, animal behavior. Prerequisites: BIO 125, 126, and junior/senior standing. First and second semesters.

410. Immunology. 4 cr. hrs.

A study of the cellular and developmental biology of the vertebrate immune system including the biochemistry, genetics and pathology of the system. Laboratory included. Prerequisites: BIO 125, 126, CHE 101, 102 or equivalent; organic chemistry strongly recommended. Alternating years. Second semester, 1987-88.

420. Cell Biology. 4 cr. hrs.

The dynamic nature of the cell and the homeostatic mechanisms of the cells will be studied. Prerequisites: BIO 125, 126, CHE 101, 102, Organic Chemistry. Alternating years. Second semester, 1988-89.

430. The Theory of Evolution. 2 cr. hrs.

A study of the processes and changes that occur in living organisms. An understanding of these forces will help to explain the origin of variations and the development of races, species and higher taxonomic groups in the biological world. Prerequisites: BIO 125, 126, and junior or senior standing in biology. Alternating years. Second semester, 1988-89.

Nutrition

307. Nutrition 2 cr. hrs.

A study of the basic principles of normal nutrition and the application of these principles to the nutritional requirements at various developmental levels. This course is primarily for nursing majors. It may not be used to satisfy requirements in mathematics and the natural sciences. Prerequisite: CHE 102.

British Studies

Because of the great value of the English tradition in our governmental forms and practices, in our literature, and in our culture more generally, and because of William Jewell College's close ties to the Harlaxton Study Center and to colleges at Oxford and Cambridge

BRITISH STUDIES/BUS. ADM. & ECONOMICS

Universities, an interdisciplinary major which focuses on British studies is a natural liberal arts major. The following courses are especially recommended from the William Jewell curriculum, to be combined with courses taken in England; the major ends in a bachelor of arts degree and must include 24 credit hours but no more than 40.

Strongly recommended as electives are these courses:

History 101 and 102, Western Civilization
Art History 251, 15th through 20th centuries
French, 12 or more credit hours (or French proficiency commensurate with 12 credit hours)

Required for the British Studies major:

English History (e.g., History 223) 4 cr. hrs.
Introduction to the Study of Language
(e.g., English 335) 5 cr. hrs.
Survey of English Literature
(e.g., English 465 & 475) 8 cr. hrs.

It is required that the British Studies major study for an entire year, preferably the junior year, in England. While there, the student should take tutorials or courses on specific English history or literary subjects.

In addition, the British Studies major might elect to do an Honors Project in a specific area of study, such as The Industrial Revolution or English Church Music of the Twentieth Century or Karl Marx's Impact on British Christian Denominations.

The British Studies major will take an independent study, British Studies 450 (4 to 6 credit hours), in the final senior semester; this experience will have as its chief purpose the synthesizing of work in the major program. An advisory committee will coordinate and direct the interdisciplinary major in British Studies.

450. Individual Project. 4-6 cr. hrs.

The British Studies Individual Project will be an independent study or tutorial with a broad and significant topic designed to cause the student to synthesize the work in the interdisciplinary major in British studies. Examples of such a topic are: The Concept and Forms of Freedom through English History; Images of the English Monarch; The Agrarian Ex-

perience; The English Worker's Self-Concept through History; The Effects of the Local Church Architecture on the Common Man in English Towns and Cities; Stained Glass, Organ Tones, Change Ringing, and Liturgy in England Since 1660. The student will prepare the topic with extensive reading and will write a paper, including bibliography. The course could be fulfilled as part of an Honors Project if all of the above stipulations are also met.

Business Administration and Economics

Associate Professor Stark, chairman; Professors Hawkins, Miller; Associate Professor Cook; Assistant Professors Hoyt, Jacobsen; Instructors Ford, K. Harris, Nickle.

The three major areas offered in the department of business administration and economics are accounting, economics and management. Freshmen who plan to major in the department of business administration and economics should enroll in MAT 145 first semester and ACC 211 second semester. Business majors are encouraged to consider communication, English, Foundations, mathematics, modern languages, philosophy, political science and psychology as electives or general education requirements.

Admission. Admission into the department of business administration and economics is accomplished by formal application. (Forms are available from the department chairman.) Requirements: 1. Completion of 45 credit hours. 2. Cumulative average of 2.3 or above. 3. Completion of MAT 145 or equivalent and ACC 211, ECO 201 and BUS 201 with grade of C or higher.

Students must have been admitted into the department before a degree will be granted. Only grades of C or higher in required courses will be accepted.

Accounting

Bachelor of science degree: A minimum of 43 hours and maximum of 60 hours in the department of business administration and economics, including Economics 201, 202; Business Administration 201, 231, 232, 315 and 318; and

BUS. ADM. & ECONOMICS

Accounting 211, 221, 311, 312, 335, 411, 431 and 451. Accounting majors must also take Computer Science 120, 130 and Mathematics 145. Requirements vary by state to qualify to take C.P.A. examination. Individual students are encouraged to develop a program which will meet those particular requirements.

Only financial accounting courses of four or more hours may substitute for AC 211, Financial Accounting.

In addition to the requirements listed above, each major is to perform at a satisfactory level on the AICPA Level II comprehensive exam to be taken during the senior year.

211. Financial Accounting. 4 cr. hrs.
The measurement of financial information, the accounting cycle and preparation of statements, analysis of statements, corporate and partnership forms of business.

221. Managerial Accounting. 4 cr. hrs.
Fundamentals of cost accounting including cost-volume-profit analysis job-order costing. Systems design, human behavior, budgeting standard costs and variances are emphasized. Capital budgeting, process costing and a few related topics are studied. Prerequisite: 211 with grade of C or better.

311. Intermediate Accounting I. 4 cr. hrs.
Application of accounting theory, standards, principles and procedures to financial accounting problems. Study of the objectives of external financial statements and professional accounting. Particular emphasis on assets and liabilities. Prerequisite: 211 with grade of C or better. First semester.

312. Intermediate Accounting II. 4 cr. hrs.
Continuation of 311 with study including corporate capitalization bonds, pensions, leases, accounting changes, analysis of financial statements, earnings per share and segment reporting.

335. Income Tax. 3 cr. hrs.
Laws and regulations, determination of taxable income, deductions, exclusions, making and filing returns. Prerequisite: 211. First semester.

336. Corporate Taxation. 3 cr. hrs.
Federal taxation of partnerships, corporations, estates, trusts, gifts and inheritance. The course

will acquaint students with the process and mechanisms of taxation on the national level beyond that of the individual. A study of taxation of corporations in various conditions—as a going concern, as a liquidating concern and as a reorganizing concern—as well as taxation as it pertains to estates and gifts. Tax planning included. Prerequisite: ACC 335. Every three years.

411. Advanced Accounting. 4 cr. hrs.
Accounting for partnerships, installment sales, consignments, not-for-profit entities. Special emphasis on consolidations. (By special arrangement with instructor, public administration majors may take the segment on not-for-profit entities for 1 cr. hr. with ACC 211 as prerequisite.) Prerequisite: 312 with grade of C or better. First semester.

431. Auditing. 4 cr. hrs.
Examination of financial condition and accounting procedures by public accountants and internal auditors; professional ethics; auditing standards; working papers and reports. A study of SEC reporting requirement is included. Prerequisite: 312 with grade of C or better. First semester.

451. Seminar in Accounting. 3 cr. hrs.
Study of history of accounting; research of current topics including uncertainty, efficient theory and marketplace, social accounting. Prerequisite: 312 with grade of C or better. Senior standing.

481. Accounting Internship. 6 cr. hrs. maximum
Open to majors who have a minimum GPA of 3.5 and have demonstrated excellence in accounting. Enrollment with consent of department through regular registration procedures. Requests must be submitted to the department before the term in which the work is to be completed. Performance will be evaluated through conference with the supervisor. Available only with firms having an established intern program.

Individual Projects in Accounting.
Opportunities to pursue study in topics of particular interest are provided in independent studies with consent of instructor.

360. Independent Studies in Accounting.

1-3 cr. hrs.

460. Independent Studies in Accounting.

1-3 cr. hrs.

Enrollment only by consent of instructor.

Economics

Bachelor of arts degree: A minimum of 24 hours in economics including Economics 201, 202, 306, 307, 402, 404 or 418, and 451. Economics majors must also complete Mathematics 199 and Business Administration 318.

Bachelor of science degree in business administration with an additional major in economics: A minimum of 24 hours in economics and a minimum of 45 hours and a maximum of 60 hours in accounting, economics and business administration combined, including Accounting 211 and 221; Economics 201, 202, 306 or 308, 307, 402, 404 or 418, and 451; Business Administration 201, 301, 305, 315, 318, and 326. In addition, Mathematics 199 is required.

A comprehensive examination, the Graduate Record Examination, will be required of all seniors majoring in economics, the cost to be paid by the student.

201. Principles of Microeconomics.

3 cr. hrs.

The theory of the consumer, the costs of production, the theory of the firm, monopoly and competition. Prerequisite: sophomore standing.

202. Principles of Macroeconomics.

3 cr. hrs.

National income accounts, commercial banking and the federal reserve system, and government policies for achieving stable prices and full employment. Prerequisite: ECO 201.

306. Microeconomics (The Price System).

3 cr. hrs.

The study of prices, production, consumption, resource allocation and market structures begun in course 201, which is prerequisite. First semester. Students may not receive credit for both ECO 306 and ECO 308.

307. Macroeconomics (National Income, Activity and Employment).

3 cr. hrs.

National income and product accounting, the level of economic activity, fiscal and monetary theory and policy. Prerequisite: ECO 202. Second semester.

308. Managerial Economics.

3 cr. hrs.

Applied economic analysis of the firm, competitive structure within which it operates, and aggregate economic conditions which affect its decisions. Prerequisite: ECO 201, 202. First semester. Students may not receive credit for both ECO 306 and ECO 308.

320. Industrial Organization.

3 cr. hrs.

An analysis of the organization and operation of several industries based upon economic theory and antitrust laws. Includes evaluation of theory and laws. Prerequisite: ECO 201, 202. Second semester.

324. Labor Economics.

3 cr. hrs.

The theory of wages, segmented labor markets, human capital, and the causes of unemployment. First semester.

402. Money and Banking.

3 cr. hrs.

History and structure of the banking system, objectives and instruments of monetary policy, current monetary issues and problems. Prerequisite: ECO 202 or consent of instructor. Second semester.

404. Introduction to International Economics.

3 cr. hrs.

Trade incentives and patterns, comparative advantage, trade barriers and agreements, international finance and financial institutions. Prerequisite: ECO 201 or ECO 202 or consent of instructor. First semester.

418. Public Finance.

3 cr. hrs.

The American tax and expenditure system as it affects employment efficiency, income distribution, and other objectives. Prerequisite: ECO 201 or consent of instructor. Second semester. Offered alternate years.

451. Seminar in Economics.

3 cr. hrs.

Writing, presenting and discussing of substantive papers on selected seminar topics. Prerequisite: senior standing or consent of instructor.

BUS. ADM. & ECONOMICS

481. Economics Internship.

6 cr. hrs. maximum

Open to majors who have demonstrated excellence in economics; enrollment with consent of department through regular registration procedures. Requests must be submitted to the department before the term in which the work is to be completed. Available only with firms having an established intern program.

Individual Projects in Economics.

Opportunities to pursue study in topics of particular interest are provided in independent studies with consent of instructor.

360. Independent Studies in Economics.

1-3 cr. hrs.

460. Independent Studies in Economics.

1-3 cr. hrs.

Enrollment only by consent of instructor.

Management

Bachelor of arts degree: A minimum of 21 hours of 300 or 400 level courses in accounting, economics and management combined, including Accounting 211, 221, Economics 201, 202, 306 or 308, Business Administration 201, 301, 305, 315, 318 and 406. In addition, Computer Science 120, 130 and Mathematics 145 are required. Candidates for the bachelor of arts degree may not include in the hours presented for graduation more than 45 total hours from accounting, economics and management combined.

Bachelor of science degree: A minimum of 44 hours and maximum of 60 hours from economics, accounting and management combined, including Accounting 211, 221; Economics 201, 202, 306 or 308 and one other 3-hour economics course; Business Administration 201, 231, 301, 305, 315, 318, 326 and 406. In addition, Computer Science 120 and 130 and Mathematics 145 are required.

A comprehensive examination, the GMAT, or other qualified exam will be required of all seniors majoring in business administration. The cost of the exam will be paid by the student.

201. Organization and Management.

3 cr. hrs.

Fundamentals of organizational behavior and management principles. Classical functions of management and the impact of management decision making on the organization and the people within the organization are stressed. Prerequisite: sophomore standing.

231. Business Law I.

3 cr. hrs.

Contracts, agency, employment, negotiable instruments. Prerequisite: sophomore standing. First semester.

232. Business Law II.

3 cr. hrs.

Corporations, partnerships, sales, bailments, real and personal property. Prerequisite: sophomore standing. Second semester.

301. Personnel Management.

3 cr. hrs.

An examination of the personnel/human resource function, focusing on the complete cycle of personnel activities from initial human resource planning to final performance appraisal and outcomes. Prerequisite: junior standing.

305. Marketing.

3 cr. hrs.

A study of the institutions, channels, and functions involved in the distribution of goods. Prerequisite: junior standing.

306. Readings in Marketing.

3 cr. hrs.

Recent developments in marketing, management, wholesaling, retailing, product planning, and consumerism. Opportunity will be provided for examining areas of special interest to individual students. BUS 305 is prerequisite. Second semester.

315. Financial Management.

3 cr. hrs.

Forms of organization, financial institutions and instruments, legal aspects of finance, financial administration and decisions. Prerequisite: ACC 221 and ECO 201, 202. Second semester.

318. Elementary Statistics for Business and Economics.

3 cr. hrs.

An introductory course studying the methods of statistical description, statistical inference and decision analysis. Recommended for juniors. First semester.

322. Labor Relations.

3 cr. hrs.

The growth and development of organized labor in the U.S. with an emphasis on labor law, col-

BUS. ADM. & ECONOMICS

lective bargaining and labor-management relations. Second semester.

326. Quantitative Methods in Business and Economics. 3 cr. hrs.

An introduction to techniques and applications in business and economics of operations analysis, with emphasis on management decision making. Prerequisite: BUS 318. Second semester.

401. Readings in Management. 3 cr. hrs.

A readings course designed to explore management topics in greater depth. Included among the management areas studied are traditional approaches to management, management ethics and social responsibility, organizational innovations and timely theories of management science. Prerequisite: BUS 201. First semester.

406. Business Problems and Policies.

3 cr. hrs.

A case study course, requiring students to apply knowledge acquired in their major program to solving complex problems which involve all the functional areas of business. Prerequisite: senior standing, preferably taken during last semester before graduation.

430. Marketing Research. 3 cr. hrs.

A study and application of marketing research methods and techniques. This course will be of particular interest to those students planning to work in management, sales or marketing. The course will address current methodologies used in marketing research. Subjects covered will include problem definition, sample design, data collection, data analysis and interpretation. Prerequisites: BUS 305, BUS 318.

451. Seminar in Business Administration.

3 cr. hrs.

Writing, presenting and discussing of substantive papers on selected seminar topics. Prerequisite: senior standing or consent of instructor.

451A. Seminar in International Business.

3 cr. hrs.

Writing, presenting and discussing of substantive papers on selected aspects of international business. Prerequisite: senior standing or consent of instructor.

481. Business Administration Internship.

6 cr. hrs. maximum

Open to majors who have demonstrated excellence in business administration; enrollment with consent of department through regular registration procedures. Requests must be submitted to the department before the term in which the work is to be completed. Available only with firms having an established intern program.

Individual Projects in Business Administration. Opportunities to pursue study in topics of particular interest are provided in independent studies with consent of instructor.

360. Independent Studies in Business Administration.

1-3 cr. hrs.

460. Independent Studies in Business Administration.

1-3 cr. hrs.

Enrollment only by consent of instructor.



Chemistry

Associate Professor Lane, chairman; Professor Dixon; Instructor Moore.

THE JAMES ANDREW YATES DEPARTMENT OF CHEMISTRY

A bachelor of arts degree with a major in chemistry requires 24 hours in chemistry plus two courses in physics and two courses in calculus. A grade of C or higher is required in each course in the major. Only courses in chemistry numbered 102 and higher will apply toward the major. Students who transfer credit from other schools must complete in residence a minimum of 12 hours in chemistry courses toward the major. Courses in chemistry which are more than ten years old will not normally be counted toward the major.

A student preparing for employment in chemistry, for graduate studies, or for teaching in secondary schools is strongly urged to take more than the minimal requirements. Highly recommended courses are Chemistry 105 (or 101-102), 206, 301, 302, 306, 401, 402, and at least one semester of research. Enrollment in other courses (303, 404, etc.), which will enrich and strengthen the student's understanding of chemistry, will depend on the individual's interests and goals. Courses in mathematics through Math 201, Physics 213-214, and courses in computer science are also highly recommended.

Students preparing for the health professions will find that chemistry is an especially suitable area of concentration, since they can fulfill most of the prerequisites for medical study in the course of obtaining the major in chemistry. General chemistry and organic chemistry are required by medical schools, while biochemistry is usually recommended. Medical schools with an emphasis on research often suggest physical chemistry.

Students interested in the biological or physical sciences will normally start the study of chemistry with either Chemistry 101 or 105. Most students' initial enrollment is in Chemistry 101, which assumes no knowledge of chemistry. However, those with a good background in chemistry and mathematics are encouraged to

begin with Chemistry 105. Students who have had chemistry in high school and who wish to enroll in college chemistry are urged to take a departmentally administered placement exam, the results from which will assist the student and advisor as decisions are made about how best to use the student's talents and preparation.

Students majoring in chemistry may receive certification to teach chemistry in grades 7-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification*, available in the office of the department of education.

100. Chemistry for the Consumer. 4 cr. hrs.
This is an introductory course in applied chemistry for the non-scientist. It focuses on chemical compounds and their reactions as they are experienced by people in their everyday lives. Typical topics include food chemistry, air and water pollution, chemistry of household products, energy generation, and the chemistry of sight and smell. The course includes one laboratory period per week. This course is not intended as a prerequisite for CHE 101, and credit from the course will not count toward the major in chemistry. Second semester.

101. General Chemistry I. 4 cr. hrs.
Principles, concepts, and methods which are basic to the study of chemistry are introduced in this course. Typical topics include inorganic nomenclature; atomic structure; stoichiometry; gases, liquids, and solids; chemical energy; and solutions. The course includes one laboratory period per week. No background in chemistry is assumed, but a knowledge of algebra will be helpful. Credit from the course will not count toward the major in chemistry. First semester.

102. General Chemistry II. 5 cr. hrs.
This is a continuation of the introduction to chemistry which was begun in CHE 101. Typical topics include kinetics; equilibrium; acids, bases, and buffers; electrochemistry; nuclear chemistry; and organic chemistry. The course includes two laboratory periods per week. Prerequisites: CHE 101 and a knowledge of algebra. Second semester.

CHEMISTRY

105. Chemical Principles. 5 cr. hrs.

The course is intended primarily for students who come to college with a good enough background in chemistry and mathematics to allow them to complete their study of the topics from general chemistry in only one course. The semester begins with a very fast review of topics from CHE 101. A thorough study of topics from CHE 102 follows. The course includes two laboratory periods per week. (Because of the duplication of material in CHE 102 and CHE 105, credit cannot be earned in both courses.) Prerequisite: permission of department. First semester.

206. Quantitative Analysis. 5 cr. hrs.

Quantitative methods of chemical analysis are studied, ranging from classical gravimetric and volumetric techniques to modern instrumental methods. Relationships between theory and practice are emphasized throughout the course. The laboratory is quite intensive, requiring careful work and demanding both accuracy and precision. Two laboratory periods are scheduled per week. Prerequisite: CHE 102 or 105. Second semester. (Starting in the 1988-89 year, CHE 206 will be offered in both first and second semesters.)

301. Organic Chemistry I. 5 cr. hrs.

This course in organic chemistry begins with atomic structure and builds through functional group chemistry. The interactions between structure, reactivity, and synthesis strategy are stressed. Typical topics include atomic and molecular structure; chirality; reaction mechanisms; nuclear magnetic resonance spectroscopy; and the chemistry of the alkanes, alkenes, alkynes, alcohols, ethers, aldehydes, and ketones. The course includes two laboratory periods per week. Prerequisite: CHE 206 or a good performance in CHE 102 or 105. First semester.

302. Organic Chemistry II. 5 cr. hrs.

The studies begun in CHE 301 continue in this course. Topics emphasized include infrared spectroscopy; the chemistry of carboxylic acids and their derivatives; synthesis and reactions of aromatic compounds; nitrogen-containing compounds; and polyfunctional group chemistry. The course includes two laboratory periods per week. Prerequisite: CHE 301. Second semester.

303. Biochemistry. 4 cr. hrs.

This is an introductory course in biochemistry which includes a study of the occurrence, structure, function, and metabolism of biologically important molecules. There is an emphasis on molecular species such as carbohydrates, amino acids, proteins, lipids, and nucleic acids. The course may be credited toward either a chemistry major or a biology major, as the student elects, but it cannot count toward both majors. The course includes one laboratory per week. Prerequisite: Organic Chemistry. First semester. (Starting in the 1988-89 year, CHE 303 will be offered in the spring instead of in the fall.)

306. Instrumental Analysis. 4 cr. hrs.

Modern methods of analysis which employ instrumentation are emphasized. Lecture will focus on the instruments' principles of operation, while the laboratory will require the use of and the interpretation of data from a variety of instruments. Typical techniques include spectroscopy, chromatography, and electrochemistry. Interfacing of instrumentation to a computer will be included. The course includes one laboratory period per week. Prerequisite: CHE 206. Second semester.

401. Physical Chemistry I. 4 cr. hrs.

Physical chemistry generally involves the study of the structures, physical properties, and interactions of individual molecules and collections of molecules. This first course emphasizes thermodynamics, approached from both classical (experimental) and statistical (theoretical) points of view. The one laboratory period per week will involve not only traditional experiments, but it will also include activities in data analysis and literature assignments. Prerequisites: CHE 206, Physics, and MAT 200. (MAT 201 is strongly recommended.) First semester.

402. Physical Chemistry II. 4 cr. hrs.

This is a continuation of the types of studies started in CHE 401. Typical topics include quantum mechanics, kinetics, solution chemistry, and spectroscopic methods for studying molecular structure. The course includes one laboratory period per week, in which a formal and thorough style of writing reports is emphasized. Prerequisite: CHE 401 and knowledge of a computer language. Second semester.

403. Advanced Organic Chemistry.

3 cr. hrs.

The course undertakes a study of advanced topics from organic chemistry, including mechanisms of reactions, stereochemistry, resonance, and the use of spectroscopic data in the determination of structures. The laboratory emphasizes synthetic techniques. One laboratory period per week is scheduled. Prerequisite: CHE 302. Second semester. Offered as student demand and faculty availability allow.

404. Advanced Inorganic Chemistry.

3 cr. hrs.

A systematic study of the chemical elements and their compounds is emphasized in this course. Particular attention is given to atomic and molecular structures, periodic relationships, chemical bonding, coordination chemistry, and inorganic reactions. Prerequisite: permission of instructor. Offered as student demand and faculty availability allow.

407. Qualitative Organic Analysis.

4 cr. hrs.

Emphasis is placed on the identification of organic molecules via their physical and chemical properties. The process of identification will involve both traditional and instrumental techniques. Two laboratory periods per week are scheduled. Prerequisite: CHE 302. Offered as student demand and faculty availability allow.

210, 310, 410.

Introduction to Chemical Literature and Research.

1-3 cr. hrs. per semester

This is a course which allows a serious student in chemistry to undertake an individual project in literature and/or laboratory research. Prior to enrollment, the student must select a topic and secure the approval of the faculty member who will supervise the work on the project. The student will be expected to spend 50-60 hours in research for each hour of credit. The work must culminate in a formal report, written in a style specified by the instructor.

(This independent study course should not be used as a vehicle for repeating work from another course in chemistry, and the grade from

this course may not be used to replace the grade from another course in the calculation of a student's GPA.)

Communication/ Public Relations

Professor Willett, chairman; Professors K. Harris, L.A. Harris; Assistant Professors Lane, Newton, Thompson; Instructor Brown.

The department offers majors in communication and public relations. A communication major consists of a minimum of 26 hours in communication courses numbered 200 or above, selected with advisor's approval according to the area of concentration. Communication 402 and Communication 231 (see Philosophy 231—Logic), Communication 204, Communication 225, three hours of debate, four hours of theatre, and four hours of media are required of all majors. Communication 99, Library Research Techniques, is recommended for majors.

Students majoring in communication may receive certification to teach in grades 7-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification* available in the department of education office. Prospective speech teachers should take Education 348 and other courses in the department of education, 12 hours of theatre, 12 hours in public address, and six hours of electives in the communication field.

All majors must successfully complete a senior recital.

Any student with a second major in communication or public relations must complete all requirements for the bachelor of arts degree.

Public Relations Major

The major is for students interested in the communicative functions of business. It incorporates the following:

- A. The ability to communicate through writing and speaking;
- B. The ability to understand people;
- C. The ability to understand business.

COMMUNICATION

It consists of 42 hours of courses numbered 200 or above as outlined below. A person majoring in public relations, desiring to double major in either communication or business, must complete an additional 20 hours in said discipline. Communication 99, Library Research Techniques, is recommended for majors. All majors must successfully complete a senior recital.

The following are **requirements**:

The Ability to Communicate

COM 204, Persuasion	4
COM 211, Press	4
COM 212, Telecommunications	4
COM 305, Technical Writing	2
COM 402, Senior Seminar	2
	<hr/>
	16 hours

The Ability to Understand People

COM 210, Interpersonal	4
SOC 334/35, Cultural Anthropology	4
or	
SOC 339/40, Race Relations	4
PSY 304, Social Psychology	4
	<hr/>
	12 hours

The Ability to Understand Business

ECO 201, Microeconomics	3
or	
ACC 211, Financial Accounting	4
BUS 301, Personnel Management	3
BUS 305, Marketing	3
COM 403i, P.R. Seminar	2
	<hr/>
	11/12 hours

Required Courses	39/40
Electives	2/3
	<hr/>
	42 hours

The following is a list of possible electives. They should be chosen with the **advisor's approval**.

ART (149b, 149g, 203)
 BUSINESS (201, 221, 231, 232)
 COMMUNICATION (403g, 403j, 404)
 POLITICAL SCIENCE (303)
 PSYCHOLOGY (214, 317, 319, 411a)
 SOCIOLOGY (351)

EVENING DIVISION

ART 149n, Graphic Design
 BUS 261a, b, Sales Management

BUS 262a, b, Organization and Management of a Small Business

BUS 306a, b, Current Marketing Issues

BUS 308, Marketing Channel Analysis

BUS 331a, b, Wage & Salary Administration

BUS 401a, b, Readings in Management

BUS 406a, b, Business Problems & Policies

Humanities: the following courses are strongly recommended:

Philosophy 231, Communication 220

99. Library Research Techniques. 1 cr. hr.

A practical introduction to library research techniques, resources, and strategies for effective library use. Not merely an orientation course for beginning students, but designed to be of significant value to students at all levels. Emphasis will be on the nature and use of bibliographical aids and researching the documented paper.

100. Fundamentals of Speech

Communication. 4 cr. hrs.

A study of speech communication theory and practice. Preparation and presentation of various forms of speech communication activities. Topics include public speaking, small group communication, non-verbal communication, audience analysis and listening. Fulfills requirement for graduation.

201. Fundamentals of Argumentation and Debate.

3 cr. hrs.

The fundamentals of argumentative speech, analysis, outlining, evidence, and use of reasoning. Designed for the student who has no background in debate. Recommended for students preparing for ministry, law, and secondary speech education. Not open to students with extensive debate background. Prerequisite: COM 100.

204. Persuasion.

4 cr. hrs.

Study and practice in the construction and delivery of persuasive speeches, with a survey of pertinent studies. Emphasis on adaptation for special audience attitudes. Recommended for students who have had previous speech training; relevant for debaters, pre-law, and church-related vocation students. Required for majors. Prerequisite: COM 100 unless approved by the department chairman. Should be taken by majors the semester prior to COM 402.

210. Interpersonal Communication.

4 cr. hrs.

A study of communication problems that cripple relationships; designed to help the student understand and apply new patterns for communicating with others. Communication problems are approached by involving students in structured exercises dealing with such areas as first impressions, perceptions, biases, inferences, listening, group dynamics, and semantics. Prerequisite: COM 100.

211. Mass Media: The Press.

4 cr. hrs.

The techniques of newspaper writing, with stress on general reporting, features, and editorials. Problems in copy editing and layout. Study of the role of the press in society. Practical work on the college newspaper. Prerequisite: Sophomore standing or above.

212. Mass Media: Telecommunications.

4 cr. hrs.

An introduction to radio, television, and other electronic media. Topics include: history of telecommunications, fundamentals of telecommunication technologies, audio and video production, broadcast programming, broadcast journalism, federal regulation of broadcasting, broadcast advertising, audience measurement, and moral, social and economic implications of telecommunications. Practical experience in the use of audio and video production equipment.

220. Oral Interpretation.

4 cr. hrs.

Reading as a creative process. Individual guidance and practice to help students perfect skills in oral reading of all types of literature. Study of the vocal mechanism and development of body and voice as expressive agents. Required of communication majors with a theatre emphasis. This course will fulfill the four-hour requirement for theatre. First semester. Prerequisite: COM 100.

222. Introduction to Theatre.

4 cr. hrs.

Overview of theatre history from Greek to the present. Major emphasis on representative pieces of dramatic literature. Units of study in production aspects of theatre. Attendance at area theatre productions. This course will fulfill the four-hour requirement for theatre. Required of

communication majors with a theatre emphasis. First semester.

224. Basic Acting.

4 cr. hrs.

Participation with class members in acting scenes and work in improvisational exercises. Basic acting technique will be learned. Mainly a practicum course with an acting assignment in a publicly performed play as the culmination of the course. This course will fulfill the four-hour requirement for theatre. Required of communication majors with a theatre emphasis. Second semester.

225. Voice and Articulation.

2 cr. hrs.

Concentration on the learning of the International Phonetic Alphabet and its application in the articulation and enunciation of the English language. Important for music, English, and education majors. Second semester.

231. Logic.

4 cr. hrs.

See course description for Philosophy 231.

305. Technical Writing.

2 cr. hrs.

See course description for English 305.

309. History and Criticism of American Public Address.

4 cr. hrs.

Historical and critical study of significant American speakers, with analysis of structure, content, and influence of their works. Prerequisite: at least sophomore standing. Alternate years. Second semester, 1988-89.

320. Technical Theatre.

4 cr. hrs.

Theory and practice in design and construction of stage scenery and makeup. Projects in lighting, costuming, and other areas of theatre production. Emphasis on needs of theatre majors, teachers, and religious and educational drama enthusiasts. Required of communication majors with a theatre emphasis. Prerequisite: Basic Acting or approval of instructor. Alternate years. Second semester, 1988-89.

322. Directing.

4 cr. hrs.

Designed to prepare future teachers, actors and young people's leaders to direct dramatic productions. Intensive work in play analysis. Instruction in casting, rehearsal schedules and overall production of a show. Practical experience in scenes and a one-act play. Required of communication majors with a theatre emphasis. Prerequisite: Basic Acting. Alternate years. Second semester, 1987-88.

COMMUNICATION

324. Advanced Acting. 4 cr. hrs.

An in-depth study of acting theory concentrating on the techniques of Stanislavski and Grotowski. Most of the class time will be spent on laboratory theatre experiments. Final public performance to demonstrate individual theory developed by the student during the semester. Required of communication majors with a theatre emphasis. Prerequisite: Basic Acting. Recommended for education, English, and music majors. Alternate years. First semester, 1988-89.

354. Recording Studio Techniques. 3 cr. hrs. See course description for Music 354.

401. Communication Activities. ½-4 cr. hrs.
Designed for special activities. Credit may be obtained in forensics, theatre, interpretation, radio, television, and writing, in addition to credit in regular courses. Activities and requirements should be planned in advance with the supervising staff member. Credit available each semester.

One-half (½) credit hour is awarded for every four hours of activity per week, one (1) credit hour for four hours of activity per week, etc. An accumulative total of eight (8) credit hours may be earned. COM 401f, Teaching Assistant, is variable credit of 1-2 credit hours, as determined by the instructor.

401a. Forensics.

401b. Theatre.

401c. Interpretation.

401d. Radio.

401e. Journalism.

401f. Teaching Assistant.

401g. Television.

402. Senior Seminar. 2 cr. hrs.

Required of all senior communication and public relations majors as preparation for professional and graduate work. Prerequisite: COM 204. Offered each semester.

403. Communication Seminars. 2 cr. hrs. Offered on demand unless so designated.

403a. Forensics.

Advanced argumentation theory, public speaking experience, and interpretation skills appropriate for competitive speaking. Appropriate for debaters, individual events

participants, pre-law students, and prospective forensics coaches.

403b. Religious Drama.

Study and production of theatre forms suitable for church and youth group use.

403c. Children's Theatre.

Creation and performance in area schools of plays for children.

403d. Feature and Editorial Writing.

Study and writing of specialized newspaper forms.

403e. Modern Rhetorical Theory.

Analysis of significant American speeches since 1960, with study of critical trends.

403f. Independent Studies. 1-2 cr. hrs.

Special creative projects or investigative studies designed by students and approved by department staff. Credit for graduation with Honors/Achievement may be given with 403f. Increased credit for honors work may be given as determined by the advisor.

403g. Nonverbal Communications.

Analysis of nonverbal behaviors and the role they play in human interaction. Open to all students regardless of classification. Prerequisite: COM 100. Second semester.

403i. Fundamentals of Public Relations.

An introduction to public relations. Topics include: history of public relations, the role of public relations in an organization, legal issues affecting the practice of public relations, internal and external publics, theoretical models of public relations, media relations, public relations management and the impact of public relations on society. Students develop writing skills essential for the public relations practitioner. Prerequisite: COM 211.

403j. Organizational Communication.

Analysis of communication principles as they apply to communication networks within organizational structures. Explores the principles of effective communication as they apply to the flow of information within interactive networks of an organization. Prerequisites: COM 100. Second semester.

404. Communication/Public Relations

Internship. 2-6 cr. hrs.

This internship is intended to help the student make the transition from formal academic study to actual on-the-job situations. The intent is to match student career goals with an appropriate cooperating organization in order to provide increased learning opportunities for the student, who also benefits by being able to include the internship experience in credentials. Prerequisites: the student must have completed 20 hours in the major and be at least a junior; for the public relations major the required 20 hours must include COM 211, ENG 305, COM 403 and BUS 305. Prior to enrolling for credit, the student must work with and have approval from the director of interns. Guidelines for the internship program are on reserve in the library, at the main desk, under COM 404. The guidelines must be followed if credit is desired.

Education

Professor Stockton, chairman; Associate Professors Bleakley, Moore; Assistant Professors Garrison, Hoffer.

The education department offers programs in teacher education under the bachelor of arts and bachelor of science degrees. Students seeking certification to teach in elementary schools must pursue a major in elementary education under either the bachelor of arts or the bachelor of science degree. In cooperation with other departments at the college, the education department offers the bachelor of arts degree leading to secondary (grades 7-12) teacher certification in biology, chemistry, English, mathematics, physical education, physics, social studies and speech-theatre. Bachelor of arts programs leading to all-level (grades K-12) certification include art and foreign language. Bachelor of science programs for all-level certification are available in music education and physical education. Students who complete all requirements for a degree with a major in one of the approved teaching fields and complete at least twenty-eight (28) semester hours in education including all professional studies requirements for either all-level or secondary certification will earn a second major in education. Certification

in early childhood education or the special education areas of behavior disorders, educable mentally retarded, or learning disabilities may be added to any elementary, secondary, or all-level certification plan by including the appropriate courses in the student's choice of electives. Specific program requirements are included in the *Student Handbook for Teacher Certification*.

Admission to Teacher Education Programs.

Students seeking teacher certification in either elementary or secondary grades should complete a form declaring such intent during the freshman year. The prospective elementary education major must complete a specified plan of study for a bachelor of arts or a bachelor of science degree in education (elementary). Students seeking certification in secondary grades must obtain a major in the teaching field of their choice and meet the professional education requirements for either secondary or all-level certification. All students seeking teacher certification must meet the following criteria for formal admission to the teacher education program:

1. Completion of at least forty-five (45) semester hours.
2. Completion of at least one semester at William Jewell College.
3. Attainment of an overall grade point average of 2.5 with a grade of C or better in each of the following or their equivalents: Education 205, English 100, Communication 100 and Mathematics 105.
4. Attainment of a grade point average of 2.75 or better in the major. (Elementary education majors must attain a 2.75 GPA in Education 205, 210 and 211 with no grade below C in any of these courses.)
5. Recommendation from a faculty member in a department other than education and approval of the education committee. (Reference forms may be obtained from the education office or student's advisor.)
6. Favorable evaluation of performance in fieldwork activities.

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7. Achievement of a composite standard score of at least 18 on the ACT or 800 on the SAT and satisfactory scores on tests of basic skills in mathematics and reading comprehension, and demonstrated competencies in writing skills.

Students may not enroll in education courses numbered 300 or above until they have been admitted to the Teacher Education Program.

Transfer Students/Change of Major.

Students changing majors or transfer students planning to pursue teacher certification should file a form with the education department declaring such intent. The student should consult the *Student Handbook for Teacher Certification* for the professional education requirements and the criteria which must be met for admission to the teacher education program. Transfer students or students changing majors may find it necessary to attend college beyond the usual four years.

Student Teaching. Students must make formal application for admission to student teaching by Feb. 15 in order to be admitted to student teaching in the succeeding fall or spring of the next academic year. A \$25 non-refundable deposit must accompany the application. The criteria for admission to student teaching are stated in the *Student Handbook for Teacher Certification*. Formal admission to the Teacher Education Program is a prerequisite to application for student teaching and should be obtained at least one semester prior to making application for student teaching.

205. Educational Psychology. 4 cr. hrs.

A survey of the psychological principles that have special application to the teaching-learning situation. The major topics of study include educational and psychological measurement, classroom dynamics, human development, and learning. Prerequisite: sophomore standing.

210. Organization and Administration of the Elementary School. 2 cr. hrs.

A beginning course for those who plan to teach in the elementary school. Emphasis is given to the analysis of organizational designs and administration of the elementary school.

The student is also introduced to a study of professional literature in elementary education. The course must be taken concurrently with EDU 211 and 212.

211. Techniques of Teaching in the Elementary School. 2 cr. hrs.

A study of teaching methods, teacher-pupil relationships and curriculum used in the elementary classroom. Students have opportunity to analyze their potential as elementary teachers through research projects and experiences in the classroom. The course must be taken concurrently with EDU 210 and 212.

212. Clinical Fieldwork in the Elementary School. 2 cr. hrs.

A course in which the teaching strategies, principles and concepts introduced in EDU 210 and EDU 211 are practiced and observed in classroom settings through off-campus field placements. Prerequisites: concurrent enrollment in EDU 210 and EDU 211 and sophomore standing.

221. Field Work in the Secondary Schools. ½ cr. hr.

Students are placed in a classroom which closely relates to their area of interest and are involved in seminars/advising to explore whether teaching should be their chosen career. Offered on demand.

234. Psychology and Education of the Exceptional Child I. 2 cr. hrs.

This course is designed for students seeking certification to teach in either the elementary or secondary grades. It deals with the identification of the various categories of "exceptionality" and an orientation to some of the special instructional strategies that have been found to be successful in the education of the exceptional child. (Also listed as PSY 234.) First seven weeks.

235. Psychology and Education of the Exceptional Child II. 2 cr. hrs.

A continuation of the study of the exceptional child begun in EDU 234. This course emphasizes the practical application of the principles and concepts from the prior course in classrooms and other institutional settings. Frequent field trips to schools, child care centers and other

facilities constitute an integral part of the course. Students are encouraged to concentrate substantial proportions of their work in the course on areas of their own special interests. Pre-requisite: EDU or PSY 234. Second seven weeks.

Professional Education Courses.

Education courses numbered 300 and above can be taken only by those admitted to the Teacher Education Program.

300. Teaching the Expressive Arts. 4 cr. hrs.

An integrated course for the prospective elementary teacher in which the roles of art, creative dramatics, music and physical education in the elementary school curriculum are analyzed. Major goals of the course include (1) understanding the objectives and methods employed by the specialists in the respective areas, and (2) developing strategies for the integration of the expressive arts into the teaching of the regular classroom subjects. Second semester.

301. Teaching of Reading and the Language Arts in the Elementary School.

4 cr. hrs.

A study of methods, materials, and techniques used by elementary school reading and language arts teachers. Approaches to reading instruction and related language arts with opportunity to plan, implement, and evaluate lessons in a classroom situation. This course must be taken concurrently with EDU 308 and 309. First semester.

302. Children's Literature and Instruction in Individualized Reading Techniques.

4 cr. hrs.

Acquaints the student with the best literature for elementary school children. Development of standards and criteria for selecting materials according to interest, needs, and abilities of children at different age levels. Second semester.

303. Analysis and Correction of Reading Disorders.

2 cr. hrs.

An introduction to specific methods for evaluating reading performance. Major topics of study include selection and administration of measures, interpretation of results, and developing prescriptive programs. Prerequisite: EDU 301. First seven weeks.

307. Teaching of Reading in the Junior and Senior High School.

2 cr. hrs.

A study of factors involved in the reading process, and basic skills and techniques of teaching reading in the junior and senior high school.

308. Clinical/Field Experience for the Elementary Teacher.

1 cr. hr.

This course is designed to integrate the concepts and skills of elementary methods and techniques courses. Winterim.

309. Mathematics for the Elementary Teacher.

4 cr. hrs.

Advanced mathematical content in the structure of the number system and methodologies in the teaching of content. Each emphasis is equivalent to two semester hours. This course must be taken concurrently with EDU 301 and 308. First semester.

310. Instructional Methodology. 2 cr. hrs.

A study of various instructional strategies, methods, techniques and approaches to teaching in the secondary schools. Special emphases include lesson planning, learning activities, and evaluation. Prerequisites: EDU 205 and junior standing. First seven weeks.

311. Clinical/Field Experience for the Secondary Teacher.

2 cr. hrs.

A course in which the teaching strategies and principles introduced in EDU 310 are practiced in videotaped micro-lessons and in real classroom situations through on-campus micro-teaching and off-campus field placements. Prerequisite: EDU 310. Second seven weeks and Winterim.

312. Science for Elementary Teachers.

2-4 cr. hrs.

Designed to acquaint the elementary school teacher with basic principles involved in teaching science in the elementary school. Stress is upon practical experiments and fundamental knowledge concerning earth and universe, life on earth, and energy of the universe. Second semester.

318. Early Childhood Education Curriculum Methods and Materials.

4 cr. hrs.

An overview of early childhood education and theories of child development. A study of developmentally-based curriculum methods and ma-

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terials. Techniques of observation and assessment will be stressed throughout. Prerequisites: EDU 210, 211 and 205. Second semester.

319. Early Childhood Education: Utilizing Family and Community Resources. 2 cr. hrs.
A study of how family and community resources can be utilized for a more effective early childhood education program. First semester, first seven weeks.

322. Micro-Teaching. 1 cr. hr.
A course dealing with the analysis and improvement of instructional activity through the use of both instructor and peer critiques and videotape recordings. Students design short instructional activities according to the principles presented in 310, Instructional Methodology, and carry them out in a videotaped role-playing situation. A self-analysis is written on each micro-lesson in which the student synthesizes the data from peers, the instructor, and the videotape and sets short-range objectives for the improvement of his instructional behavior. Prerequisite: EDU 310 (or concurrent enrollment). Offered on demand.

323. Special Methods Field Work. ½ cr. hr.
Using the content and methodologies of the chosen teaching field by participating and teaching in a classroom situation. Students plan, teach, and evaluate at least one lesson in a classroom which emphasizes the subject matter of their approved teaching field. The student also engages in small group work and tutoring on a one-to-one basis. This course is taken concurrently with EDU 310. Offered on demand.

329. Language Development. 2 cr. hrs.
A study of the development of language in the normal child. It should be taken before EDU 330. First semester, second seven weeks.

330. Language Development for the Exceptional Child. 2 cr. hrs.
Review of normal language development in children and of the major elements and structure of language. Disabilities in language functioning, assessment techniques, and language development or remediation for the exceptional student will be the major emphasis. Offered second semester, second even weeks.

338. Teaching the Social Studies. 2 cr. hrs.
Responsible, informed decision making is developed in this course by sensitizing undergraduate students to the range of decisions they are likely to encounter as teachers of the social studies and by giving them experience in making these decisions. Students participate in lesson-planning, value-clarification, inquiry, and evaluation activities—all stressing decision making. First semester, first seven weeks.

340. Teaching Science in the Secondary School. 2 cr. hrs.
Methods for teaching general science, biology, chemistry, and physics in the classroom and laboratory; objectives and organization of subject matter, evaluating the pupil's progress; selection and buying of supplies and equipment; and planning of laboratories.

342. Teaching English in the Secondary School. 4 cr. hrs.
A practical course in methods of teaching various phases of secondary English. Some observation of teaching will be included. Open only to those preparing to teach English. First semester, odd-numbered years.

344. Teaching Foreign Language in the Secondary School. 2 cr. hrs.
Students will consider the best approach to the teaching of language, plan curriculum content, evaluate textbooks and other materials for teaching. Open to those preparing to teach foreign language.

345. Teaching Mathematics in the Secondary School. 2 cr. hrs.
Open to those who are preparing to teach high school mathematics. Methods of presenting the subject matter of mathematics courses taught in high school, the motivation of students, evaluation of results, evaluation and selection of texts and material. Drill in certain fundamentals of mathematics. References will be made to topics of modern mathematics. Second semester, odd-numbered years.

348. Teaching of Speech in the Secondary School. 2 cr. hrs.
A survey of the literature of speech, a unit in curriculum planning, and study of teaching

methods in theatre, forensics and general speech. Offered first seven weeks in alternate years.

350. Teaching of Music for Elementary Teachers. 2 cr. hrs.

A study of the objectives, materials, curricula and methods of teaching music. Offered on demand.

351. Methods of String Instruments. 2 cr. hrs.

The study of violin, cello and bass. Teaching techniques for string instruments.

352. Methods in Woodwind Instruments. 2 cr. hrs.

The study of clarinet, flute, oboe, bassoon, and saxophone. Fundamentals of technique, maintenance and simple repairs. Examination and evaluation of teaching methods. Teaching techniques for woodwind instruments. Second semester.

353. Methods in Brass and Percussion Instruments. 2 cr. hrs.

The study of trumpet, trombone, euphonium, French horn, tuba, and percussion with emphasis on the teaching of these instruments. First semester.

358. Teaching of Art in the Secondary School. 2 cr. hrs.

The methods and teaching of art on the secondary level.

365. Teaching of Physical Education for Elementary School Teachers. 2 cr. hrs.

See course description for Physical Education 365.

400. Art for the Elementary Teacher. 2 cr. hrs.

A study of the methods, materials, and techniques employed by teachers of elementary school art. Students will plan primary and intermediate lessons, direct and evaluate elementary students in an art experience, complete specified art projects and develop a statement of teaching philosophy related to art. Offered on demand.

404. Applied Analysis and Correction of Reading Disorders. 2 cr. hrs.

Students evaluate the performance of an individual student and design and implement a prescriptive program. Results of analysis and

correction procedures will be organized as a case study. Prerequisite: EDU 303. Second seven weeks.

410. Student Teaching for Elementary School Teachers. 3-8 cr. hrs.

(For elementary education major seniors who have been approved by the Education Committee.) This course provides for the elementary education major to observe and teach in a public school classroom all day for eight weeks. The student is assigned to a cooperating teacher who works with the college supervisor to give the student an opportunity to teach under supervision. The student teacher must, during this time, develop in proficiency and assume complete responsibility for the children in the classroom for at least five consecutive school days. The principal and other school personnel cooperate to include, as nearly as possible, all of the experiences of a contract teacher. Application forms for student teaching must be completed prior to registration for the course. Last eight weeks of either semester.

411. Instructional Media. 2 cr. hrs.

A course dealing with the selection, utilization, and operation of audiovisual strategies and machinery. Emphasis is placed upon teacher-constructed materials for use in the classroom. Prerequisite: acceptance in a teacher certification program or consent of the instructor. First seven weeks.

424. Student Teaching in the Secondary Schools. 3-8 cr. hrs.

Following observation of teaching, the student, under the direction of the public school cooperating teacher and the college supervisor, assumes responsibility for teaching. Activities include attendance at teachers' meetings, PTA meetings, group seminars and workshops on campus. Formal application must be made to the Education Committee following the satisfactory completion of at least one semester after being accepted into secondary education programs. (See *Student Handbook* for specific details.) Application forms for student teaching must be completed prior to registration for the course. Last eight weeks of either semester.

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430. Independent Studies in Education.

1-4 cr. hrs.

This course is provided for those students desiring or needing opportunities to pursue interests in any areas of concern to teachers.

439. Methods of Teaching Educable Mentally Retarded.

2 cr. hrs.

Methods, materials, and techniques employed by teachers of the educable mentally retarded. Special emphasis on designing individual educational prescriptions. Students work with educable mentally retarded children in a school setting. Prerequisite: EDU 301, 308, and 309. Second semester, second seven weeks, even-numbered years.

440. Methods of Teaching Learning Disabled.

2 cr. hrs.

This course is designed to introduce the student to the methods, materials, and techniques employed by teachers of the learning disabled. Special emphasis will be given to designing individual educational prescriptions. Students will work with learning disabled children in a school setting. Prerequisites: EDU 301, 308, and 309. First semester, second seven weeks, odd-numbered years.

441. Behavior Management Techniques.

2 cr. hrs.

A study of the methods, materials and techniques employed by teachers of the behavior disordered in prescriptive programs. Students will compare models for managing behavior in regular classroom settings and structured learning environments. Prerequisites: EDU 301, 308, 309. First semester, even-numbered years.

450. Philosophical Foundations of Education.

4 cr. hrs.

The analysis of various philosophical positions and their influence upon educational rationale and practices with an emphasis upon the student's development of a personal philosophical perspective for teaching. First seven weeks.

451. Music Methods in the Elementary School.

2 cr. hrs.

Methods, materials, and techniques for

teaching music in the elementary school. Consent of the instructor. First semester.

452. Vocal Music Methods in the Secondary School.

2 cr. hrs.

Methods, materials and techniques for teaching music in grades 7-12. Majors only. Second semester, first seven weeks.

453. Instrumental Methods in the School.

2 cr. hrs.

Methods, materials and techniques for teaching instrumental music in the public school. Majors only. Second semester, first seven weeks.

460. Methods, Teaching Physical Education.

2 cr. hrs.

See course description for Physical Education 460.

462. Vocal Pedagogy.

2 cr. hrs.

A study of comparative vocal pedagogy including concepts of vibrato, registers, dynamics, range, breathing, support, tone placement, resonance and voice classification. Practical application through observation and supervised teaching. Second semester.

470. Seminar in British Primary Education.

2 cr. hrs.

A study of the philosophy, curriculum, and methods of the British Primary Schools. The course must be taken as a prerequisite to EDU 475. Offered second semester each year.

475. Practicum in British Primary Education.

4 cr. hrs.

A four-week practicum in a British Primary school supervised by a member of the education faculty. Prerequisites: junior standing and admission to the Teacher Education Program or a valid teaching certificate and completion of EDU 470. Qualified students may receive graduate credit for EDU 470 and 475 through arrangements with other colleges. Further information may be obtained from the education office. Offered second semester each year.

English

Professor Dunham, chairman; Professors Canuteson, Shannon, Unger; Associate Professors Harriman, Munro, Robinson; Assistant Professors Powers, Russell, Williams

THE JOHN PHELPS FRUIT DEPARTMENT OF ENGLISH

Successful completion of English 100, Freshman Composition, is required before the student registers for credit hours beyond a total of 60 and to assure writing competency. All students must pass a minimum competency, but are urged to achieve beyond the minimum.

Some students who are already capable writers should apply to the department chairman to take department-devised advanced placement exams which rigorously demand demonstration of competency in composition. Successfully passing the exam will earn advanced placement in English 125 or, with permission, in other writing courses.

After achieving the required writing competency, either in English 100 or by the advanced placement method, students will be expected to maintain that competency or an even higher standard. If a professor finds a student's writing to be below standard, that student will be referred to the English department for additional or remedial work.

A literature course of four hours is required to assure that the student has examined features of life and values by reading and understanding literature. The courses which fulfill this requirement are indicated by an asterisk (*) beside each course number. English 255, Studies in Literature, is specifically designed for the student with minimal background in literary study and a general interest. Because various subjects are offered each semester in this course, a student may take more than one semester of English 255. The second Studies in Literature course the student takes must have a subject matter different from the first such course taken.

All English courses except 100, 125, 305 and 310 apply toward fulfillment of the Humanities group requirements for graduation; two 255

courses, if the subjects are different from each other, will apply toward that requirement. Freshmen may not enroll for 255 or above without specific permission to do so.

The English Major: A minimum of 27 semester hours is required of each student; the maximum possible is 40 semester hours (neither limit includes English 100).

Courses taken for the major must include one of three linguistics and writing courses—235 (or 335), 315, and 325—must include four of six literature courses—365, 375, 385, 465, 475, and 485—and must include the two senior project courses—490 and 495; two of the literature courses must be survey courses—465, 475, and 485.

In fulfilling the general requirements for graduation, English majors are expected to choose those courses which pertain to their personal educational goals; other elective courses should introduce the major to new experiences in the humanities and social sciences and deepen one's understanding of the total environment. Students are expected to fulfill the language requirements with three semesters of French, German, Greek, Latin, Japanese or Spanish. A student may take English as a primary major only in the B.A. program; the English major as a second major combined with a B.S. primary major does not require the additional B.A. degree courses.

Students majoring in English may receive certification to teach English in grades 7-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification*, available in the department of education office.

Classes in the English department range across many possibilities of teaching method, expected activity and content. All are based on the importance of the English language, usually in literary works, to develop reading understanding, writing skills, the demonstration of the literal and figurative possibilities of combined language, thought, and feeling, and the exercise of humane values.

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99. English for International Students.

2-4 cr. hrs.

Intensive study and practice in basic skills; reading, writing, listening and note-taking, for students whose native language is other than English. The course is intended to prepare international students for successful college-level work. The course will be offered each semester. Students will repeat as necessary, but no more than four hours will count as elective credit towards the 124 required for graduation. Prerequisite: Consent of instructor.

100. Freshman Composition.

4 cr. hrs.

Required of all students, though students who prove their competency by means of satisfactory completion of a rigorous English department-devised test may receive advanced placement. Those who choose to take the course or who do not achieve advanced placement will receive individual attention to develop a clear, logical, and organized manner of writing. Approaches will be varied from section to section. The ENG 100 student must pass the Proficiency Test of Writing Skill as the final exam of the course; not passing the exam necessitates re-enrolling in the course. All students must pass ENG 100 before registering for credit hours beyond a total of 60.

Freshman Composition and passing the writing proficiency test are prerequisites for all other English courses. No written work can receive credit in English courses unless it meets the standards for writing established for passing ENG 100.

125. Advanced Freshman Composition.

4 cr. hrs.

A course for students who have not taken ENG 100 or a freshman composition course at another college and who have demonstrated advanced writing ability on the English department's proficiency test (given at the end of each semester). It gives practice in mental skills, including critical and logical thought, synthesis, analysis, and the use of evidence in the context of writing expository essays.

222, 322, 422. Individual Writing Project.

1-4 cr. hrs.

Individual writing courses undertaken with the close sponsorship of an English teacher,

beginning with a project proposal in specific terms. The numbers 322 and 422 are for the second and third such projects enrolled in by a student. ENG 100 and one of the advanced writing courses are prerequisite; at least one completed literature course is also preferred. Enrollment is with permission only.

235. Introduction to the Study of Language.

4 cr. hrs.

A study of the development of human language; language acquisition, structure and change; and language in human life. It is intended for any student interested in the subject; it provides humanities credit for graduation. Prerequisite: ENG 100. Offered first semester.

242, 342, 442. Individual Practicum Project.

1-4 cr. hrs.

Individual practicum projects undertaken with the close sponsorship of an English teacher, beginning with a project proposal in specific terms. Examples of practica are proctoring a PSI composition course, field work in dialect study, tutoring students of English as a Second Language, service in the Writing Center; in each instance the practical work is combined with reflective study and with process analysis. The numbers 342 and 442 are for the second and third such projects undertaken by a student. Enrollment is with permission only. Prerequisite: ENG 100.

252, 345, 452. *Individual Reading Project.

1-4 cr. hrs.

Individual reading projects undertaken with the close sponsorship of an English teacher, beginning with a project proposal in specific terms. They are available for students who desire to undertake substantial reading programs of worthy literary works. The numbers 352 and 452 are for the second and third reading projects enrolled in by a student. Enrollment is with permission only. Prerequisite: ENG 100; at least one completed literature course is also prerequisite.

255. *Studies in Literature.

4 cr. hrs.

A literary study especially for non-English majors and for fulfilling the literature requirement for graduation. Various specified sections will be stipulated (examples: American Literature, Autobiography, Ethnic

Literature, Introduction to Literature, Modern Poetry, Sex Roles in Literature). A student may take more than one semester of 255; if the student takes a second semester of this course, the student must choose a subject matter different from the first section taken. Prerequisite: ENG 100.

305. Technical Writing. 2 cr. hrs.
A development of writing skills to an advanced competence, especially for students anticipating careers in business or in science. Emphasis will be on the mental judgments and processes and the skills needed for writing reports, letters, memos and other communications with clarity, ease of understanding, organization and correctness. Prerequisite: ENG 100 and junior or senior standing.

310. Composition for Teachers. 2 cr. hrs.
A development of writing skills to an advanced competence especially for candidates for teacher certification. Goals include clear, easy, confident written expression and an understanding of how writing takes its place in learning. Prerequisite: ENG 100 and junior or senior standing.

315. Creative Writing. 4 cr. hrs.
A development of the techniques and practices of writing short stories and/or poetry through intense experimentation and small-group criticism and exchange. Limited enrollment. At least one completed literature course is recommended prior to enrollment. Prerequisite: ENG 100. Offered odd years first semester, every second semester.

325. Essay Reading and Writing. 4 cr. hrs.
A development of the techniques and practices of reading and writing essays of a variety of types. Reading, vigorous output, and small-group criticism and exchange are combined. Limited enrollment. At least one completed literature course is recommended prior to enrollment. Prerequisite: ENG 100. Offered first semester.

335. Introduction to the Study of Language (Advanced). 5 cr. hrs.
Identical to, and offered concurrently with ENG 235, but designed for the student who seeks to learn additionally about the function of language. It includes a major research/

field-work project. Fulfills Humanities graduation and language arts teacher certification requirements. Prerequisite: ENG 100. Offered first semester.

365. *The Form of Fiction. 4 cr. hrs.
An exploration of the possibilities of literary expression in short story, short novel and novel form, with attention to techniques and features specific to fiction. It fulfills the literature requirement for graduation. Prerequisite: ENG 100. Offered first semester.

375. *Third World Literature. 4 cr. hrs.
In keeping with William Jewell's emphasis on international learning and as an opportunity to learn about another culture and sensibility, this course features literary works from a developing region or continent. An example is African Literature. It fulfills the literature requirement for graduation. Prerequisite: ENG 100. Offered second semester.

385. *Shakespeare. 4 cr. hrs.
A study of major sonnets, comedies, tragedies, and histories by William Shakespeare. Attention will be given to the author's life, the historical and intellectual background of the period, and critical studies of the works. It fulfills the literature requirement for graduation. Prerequisite: ENG 100. Offered second semester.

465. *English Literature Survey I. 4 cr. hrs.
A study of selected major writers working from the middle ages through the 18th century in England. Prerequisite: ENG 100 and completion of four hours of literature. Offered alternate years, first semester, 1988.

475. *English Literature Survey II. 4 cr. hrs.
A study of selected major writers of the Romantic, Victorian and Modern periods in England. Prerequisite: ENG 100 and completion of four hours of literature. Offered alternate years, first semester, 1987.

485. *U.S. Literature Survey. 4 cr. hrs.
A study of selected major writers in U.S. literary history from 1800 and including major U.S. ethnic literature. Prerequisite: ENG 100 and completion of four hours of literature. Offered second semester.

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490. *Senior Project I. 2 cr. hrs.

A final project conducted partially independently and partially in conjunction with a seminar in which the senior English major demonstrates his capabilities and maturity in literary study. Prerequisites: fully declared status as an English major and completion of at least eight hours of literature study. Offered first semester.

495. *Senior Project II. 1 cr. hr.

A final project conducted partially independently and partially in conjunction with a seminar in which the senior English major demonstrates capabilities and maturity in

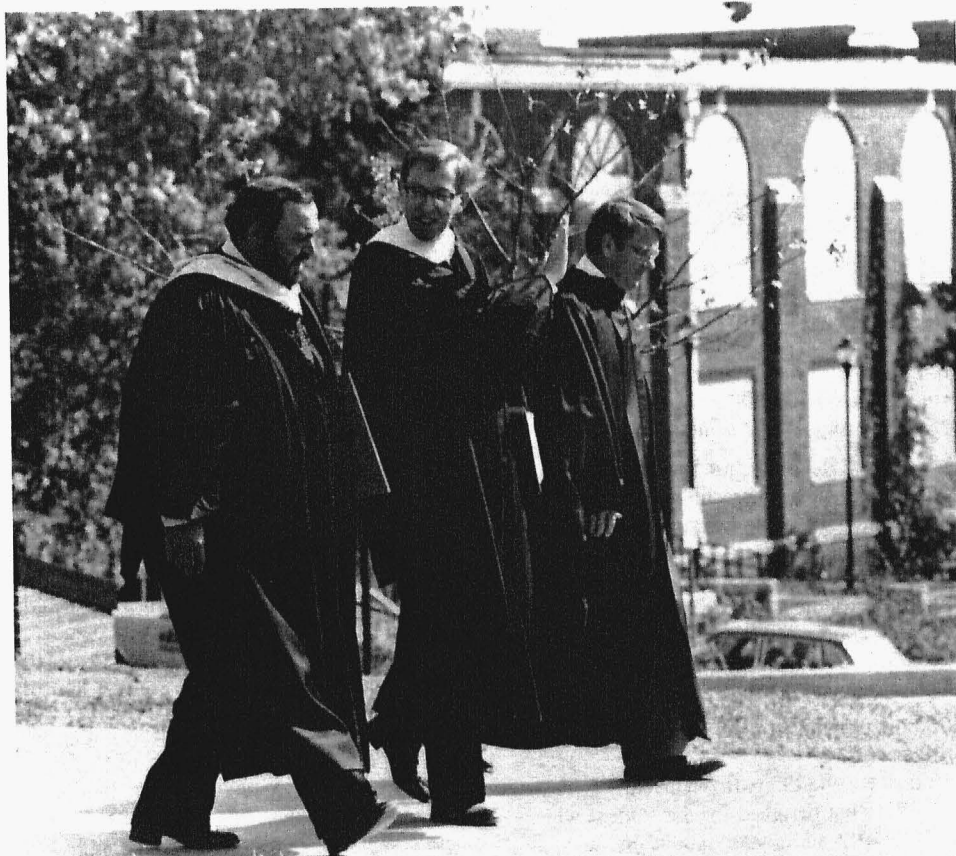
literary study. Prerequisites: ENG 490 and completion of at least 12 hours of literature study. Offered second semester.

Film

Humanities 245: Introduction to Film.

4 cr. hrs.

A study of the history of the development of cinema, the steps involved in making a film, the "visual language" of film, the work of a few major directors with emphasis on stylistic differences among them, the film criticism. Open to sophomores, juniors, and seniors. Applies toward fulfillment of the Humanities group requirement for graduation. Offered first semester.



Foundations

Professor Unger, Coordinator. There is no separate faculty for Foundations courses, which are taught by members of many departments.

The six Foundations courses make up the **Core of Studies in Public and Private Decision Making** of General Education Program II. As units of the Integrated Curriculum, which is informally known as "the Foundations program," these courses are open only to students fulfilling their general education requirements through Program II. They may not be taken by other students.

Admission to the Foundations Program. Approximately 60 students are admitted into Program II each fall. Entering freshmen, sophomore transfers, and second semester freshmen who wish to begin the program in the fall of the sophomore year may make application to the program coordinator.

Withdrawal from the Program. A Foundations student who decides that Program I would better serve personal needs may transfer general education hours from Program II into Program I after successfully completing Foundations 100 and 210. However, the student should expect to complete the Program I requirements through available departmental courses, without independent studies or other special arrangements to complement either the content or the credit hours of Foundations courses. A student who wishes to withdraw must have an exit interview with the program coordinator and then submit a written request for withdrawal. A student who fails to complete a Foundations course successfully may be withdrawn from the program.

Majors, Pre-Professional Studies, Teacher Certification. The Foundations program combines well with most major programs of the college, including those preparing students for law or medical school or other graduate or professional studies. The program includes general education requirements for primary and secondary teacher certification.

Overseas Study and Three-Year Programs. The Foundations program can be completed

in three years by students going overseas for a year or taking other three-year programs.

The Courses. Although the Foundations courses are integrated units, not bits and pieces of other programs, equivalent hours are included in each description so that the correspondence of hours in Programs I and II is evident.

100. Problems, Choices, Values, and Persons: An Introduction to the Integrated Program.

4 cr. hrs.

Study of decisions and their relationship to values. Introduction to ethics and values theory. Examination of present-day issues posed by scientific activity and involving both public and private decision making. *Pre-requisite to all other Foundations courses.* Fall semesters. (Equivalent of 2 hrs. Mathematics and Natural Sciences distribution and 2 hrs. Humanities distribution.)

210. Private Decision Making for Present and Future Selves.

4 cr. hrs.

Study of theories of individual human development. Examination of the decisions characteristic of each stage of life, especially those of early adulthood—decisions about self, sexuality, marriage and family life, work. Study of literary works portraying decisions of all stages for imaginative and affective insight. Spring semesters. (Equivalent of 2 hrs. Social Sciences distribution and 2 hrs. Humanities distribution including literature.)

220. Public Decision Making in America.

6 cr. hrs.

Study of contemporary American issue or problem demonstrating the participation of citizens in the public policy decisions of a technological society. Problems vary from year to year, including such subjects as energy, water, etc. Study of the issue will be the focus for learning important general principles of the disciplines involved. The emphasis will always be on the processes of decision making and acquisition of knowledge, not on particular answers to the chosen problem or issue. Study of the scientific, technological, environmental, economic, and political values involved; analysis of potential ethical conflicts; or choosing among values; study of basic

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scientific principles related to understanding of the issues; scientific method applied in the laboratory. Fall semesters. (Equivalent of 4 hrs. Mathematics and Natural Sciences distribution including laboratory science [2 hrs. biological science and 2 hrs. physical science] and 2 hrs. Social Sciences distribution.)

230. Christian Heritage and Western Culture: Foundations for Formation of Values.

6 cr. hrs.

Study of the Old Testament, Greek, New Testament, Renaissance/Reformation, and 19th-Century worlds, with emphasis on decisions and values involved in changing views of the good life. Analysis of some of the great books of Western Civilization. Spring semesters. (Equivalent of 2 hrs. Religion [Old and New Testaments], 2 hrs. Social Sciences distribution, and 2 hrs. Humanities distribution including literature.)

240. American Decisions and Developing Nations.

4 cr. hrs.

Study of selected events and issues in American history in comparison and contrast with events and issues in developing nations, with focus on one developing nation or on several as a group representing the characteristics of all. Emphasis on the comparison/contrast of the decisions and values of presently developing nations and those of our American past and present, on decisions developing nations pose for American policy. Fall semesters. (Equivalent of 2 hrs. Social Sciences distribution [American history] and 2 hrs. Humanities distribution.)

400. From Present Problems to Chosen Futures: A "Capstone" Course for Seniors.

4 cr. hrs.

Synthesizing course for the program. Combines units on values theory and clarification and Christian ethics with decisions which science and technology present to individuals and to society. *Prerequisite: successful completion of all other Foundation courses. To be taken during the last year of residence at the college, except with permission of the Program Coordinator.* Spring semesters. (Equivalent of 2 hrs. Religion and 2 hrs. Mathematics and Natural Sciences distribution.)

Docents. Docent activities in Foundations

100 and 210 allow selected upperclassmen to act as peer tutors for the freshmen and sophomores enrolled in those courses. The particular activities will be specified in each course syllabus and will be carefully worked out among the docents and the supervising course instructors, but each docent will work with a small group of students in the course, leading some discussions, holding some individual conferences, and serving as a model of intellectual rigor in approaching the issues raised by the course materials. Docents need not necessarily be honor students, but should be juniors or seniors in good academic standing who can accept responsibility and who respond to intellectual challenge.

Docents will be selected by the instructors and the Foundations Program Coordinator on the basis of written applications and interviews. Six to 12 docents will be selected for each section of each course. Interested students should request application forms from the Foundations Program Coordinator. Applications must be submitted at least six weeks before preregistration.

For elective credit only. Since docents will be expected, as a matter of course, to work at a consistently high level of quality, grading will be simply pass/fail.

Foundations Practicum 401. Practicum for docents in Foundations 100. Fall semesters. 2 credit hours.

Foundations Practicum 402. Practicum for docents in Foundations 210. Spring semesters. 2 credit hours.

Geography

304. World Geography.

4 cr. hrs.

A regional approach to the study of world geography, based on economic achievement and processes of development in each of the regions studied. Three aspects of development are considered: (1) the people (demographic characteristics); (2) the natural environment; (3) the culture (belief systems, life style, customs, etc.). The regions studied will include the U.S.A., Canada, Western Europe, Eastern Europe, the USSR, Japan, Australia and New

FOUNDATIONS

Zealand; Latin America, Africa, Middle Eastern countries and Asia. Offered first semester only.

Geology

201. Earth Science. 4 cr. hrs.

A study of atmosphere, hydrosphere and lithosphere. Such topics as weather, climate, space, rocks, minerals, and streams are covered. This laboratory course meets the requirement for teacher certification. Methodology of teaching is audio-tutorial. No prerequisites.

History

Professor Chatlos, chairman; Assistant Professor Spletstoser; Instructor Reynolds.

The History Major: A minimum of 30 semester hours is required for the major; a maximum of 40 semester hours is allowed. Students must take 8 hours in European history and 8 hours in American history. **One** of the following courses may count toward the major: Art History 250 or 251, World Geography 304, or Political Science 211 or 311.

History majors are encouraged to participate in Jewell's overseas programs. All history courses help students develop skills in careful reading, effective writing, and critical thinking. A few majors may be able to take an internship. Consult with the chairman about possibilities.

General Education: Students who select history as their first major must follow the requirements for the A.B. degree; those who select history as a second major may follow the requirements for the B.S. degree.

Class Selection: No history course has a prerequisite. Freshmen will not normally be admitted to courses numbered 300 and above. A student may enroll for either half of a course with double numbers for seven weeks and two hours' credit.

Certification: Students majoring in history may receive certification to teach history in grades 7-12 in the State of Missouri by completing the General Education, Professional Education, and Teaching Field Requirements outlined

in the *Student Handbook for Teacher Certification*, available in the department of education office.

History Honorary: Students who have completed at least 12 hours of history with a 3.1 GPA in their history courses, and at least a 2.75 GPA in two-thirds of their other courses are invited to contact one of their history instructors about membership in Phi Alpha Theta, the national history honorary.

101. Western Civilization to 1660. 4 cr. hrs. Introduction to the study of history as a liberal art. Considers Greece, Rome, the Middle Ages, and the Renaissance and Reformation, and their contributions to contemporary life. First semester.

102. Western Civilization 1660 to the Present. 4 cr. hrs. A continuation of HIS 101, which however, is not a prerequisite. Second semester.

200. Introductory History Colloquium. 4 cr. hrs.

This course will provide a stimulating opportunity for a select group of students to consider a topic which is limited geographically and chronologically ("Hitler's Europe" is one such topic). Students will read in primary and secondary sources. This is a discussion course. Second semester, 1988.

221. History of the United States: Colonial and Early National Periods. 4 cr. hrs. A survey of North American social, political, and economic development from the earliest discoveries and initial European colonization down through the War for Southern Independence. First semester.

222. History of the United States, 1865 to the Present. 4 cr. hrs. A survey of United States history from Reconstruction of the South after the Civil War to the present. Emphasis is placed on social, economic, and political developments. Second semester.

223. History of England. 4 cr. hrs. A survey of the major events and themes of English history from the accession of the Tudors in 1485 to the present. Designed to be an introductory course in material and method. Areas

HISTORY

to be studied will include: the Reformation, the Civil War, the rise of England as a world power, industrialization and its impact, political and social reform in the 19th century, the experience of two world wars in the 20th century and the rise of the welfare state. First semester.

300. The United States, 1850-1877: Civil War and Reconstruction. 4 cr. hrs.

A detailed account of the causes of the War for Southern Independence, the course of the war itself, and the process of reconstructing the states that formed the confederacy. Emphasis is placed on the period's historiography, upon social and political factors that propelled and grew out of the onrush of events, and upon major characters who played leading roles in the era. Second semester, 1989. Alternate years.

305. The Rise of the City in the United States. 4 cr. hrs.

A detailed examination of United States history from colonial times to the present with heavy emphasis on the city as the locus and focus of the American experience. Special problems adherent to city building and urban life will be analyzed as will the city's continuing contributions to and dominance of American institutions and traditions. First semester, 1987. Alternate years.

310-311. Survey of Ancient History. 4 cr. hrs.
Survey of the ancient world, beginning with prehistory and considering the Ancient Near East, Egypt, the Hellenic and Hellenistic Worlds, and Rome. Alternate years.

312-313. Europe in the Middle Ages. 4 cr. hrs.

The course begins with the transformation of the Roman Empire into Middle Ages, and ends with the transformation of medieval Europe into the Renaissance. Attention will be given to such topics as monasticism, the crusades, feudalism, manorialism, the rise of papal monarchy, church-state struggles, and Gothic and Romanesque art. Alternate years. First semester, 1988.

314-315. Renaissance and Reformation Europe. 4 cr. hrs.

This course considers the emergence of culture and thought in the context of such developments as the black death, the Turkish invasions of Europe, the voyages of discovery, and the dy-

nastic and marital problems of such rulers as Henry VIII. Particular attention is given to the emergence of Christian humanism, the development of Renaissance art, the Protestant Reformation and the Catholic reform and reaction. Alternate years. Second semester, 1989.

316-317. Europe in the Age of Absolutism and Enlightenment. 4 cr. hrs.

Considers such topics as the "wars of religion," the "crisis" of the early 17th century state, absolutism, enlightened despotism, mercantilism, the Enlightenment, the scientific revolution and international war. Second semester, 1989. Alternate years.

318. The Formation of Modern Europe. 4 cr. hrs.

A detailed look at the development of Europe in the 19th and 20th centuries and the work of its historians. Considers such topics as the Industrial Revolution and its impact, the rise of nationalism, Bismarck and German unification, imperialism, the rise of middle class culture, the origins and impact of World War I, the emancipation of women, the Russian Revolution, the rise of Hitler and Nazi Germany, World War II and its aftermath. Second semester, 1988. Alternate years.

320-321. The Communist Nations in Europe. 4 cr. hrs.

A survey of the background and history of the Communist states in Eastern Europe and the Soviet Union. Emphasis will be on the Soviet Union, its internal developments and relations with the rest of the world. Alternate years. Second semester, 1989.

322-323. History of Latin America. 4 cr. hrs.
A historical survey of Latin American countries. Emphasis is placed on those political and cultural factors which will aid the North American student in understanding nations of Hispanic culture. Alternate years. First semester, 1988.

324a, 324b. The Far East. 4 cr. hrs.

A comparative study of Japan and China in the 19th and 20th centuries. Major consideration will be given to the ways in which both countries adjusted traditional institutions and values to the threat of the aggressive, industrialized, technologically advanced West. Second semester, 1988. Alternate years.

HISTORY

325. History of the Baptists. 2 cr. hrs.
See course description for Religion 325.

401-402. Readings in History. 1-2 cr. hrs.
In consultation with a supervising professor in the department, the student selects a group of readings concentrated in one historical era or country. Written reports will usually be required. For seniors; others admitted by consent. May be repeated.

403, 404. Seminar or Independent Studies. 1-4 cr. hrs.

Seminars and individual projects under the supervision of the history department.

450. Seminar. Topics in European History. 4 cr. hrs.
This is an advanced seminar which will change topics from year to year. They will be limited geographically, chronologically, and by theme. One such topic will be "Law, Liberty, and Crime in England." The course will emphasize

reading, discussion, and writing. First semester, 1987.

Independent Study

200, 300, 440. Independent Study. 1-8 cr. hrs.

250, 350, 450. Independent Study. Group Project. 1-8 cr. hrs.

Japanese Studies

A student in the exchange program may earn a major in Japanese studies through the year's work at Seinan Gakuin University. As explained in the catalog section on "The World Campus at William Jewell College," the student will normally earn 30 to 32 hours of credit through courses in Japanese language and humanities and social science courses related to Japan.





Languages

*Associate Professor Westlie, chairman;
Associate Professors A. Vera, C. Vera; Assistant
Professors Griffith, Walker.*

Modern

Courses 111, 112, and 211 meet the three-semester requirement for the B.A. degree. Students who start above 111 satisfy the requirements by completing 211, or four hours at a higher level.

Any entering student may take a placement examination during fall orientation for possible granting of credit towards graduation, equivalent to French, Spanish or German 111 and/or 112 (maximum credit allowance, 8 hours). This examination is required for all entering students having more than one year of high school French, Spanish or German who enroll in any language class.

Students with two or three years of the same foreign language in high school must enroll in a class at level 112. Students with four or more years of study of the same language in high school must enroll in the 211 level foreign language course. Should a student insist on taking a lower level language course, that student may do so as an auditor, receiving neither credit nor a grade for work done. Credit for auditors may be earned only through the placement examination, which may be taken during the fall orientation activities.

Students who major in French must complete at least 28 semester hours in French courses numbered 300 and above. At least twelve of these hours must be in courses other than Tutorial in French (French 411 or 412) taken on the William Jewell campus. In addition to these twelve hours taken on campus, all majors are required to take French 415, French Literature and Civilization Synthesis. French majors must demonstrate speaking proficiency in French at the Intermediate High level or above, as defined by the *Proficiency Guidelines* of the American Council for the Teaching of Foreign Languages. They must do so by passing an oral proficiency interview administered in the spring of each year. Majors are urged to take the interview as

soon as possible in order to take remedial steps if necessary.

Spanish majors must complete at least 24 semester hours in literature or culture courses numbered 300 or above.

Students completing a second major in French or Spanish must complete the general education requirements for the bachelor of arts degree.

115, 215. Directed Study. 2-4 cr. hrs.

For special cases only, primarily upper-classmen or transfer students who need partial credit to finish out the elementary or intermediate courses, or students who have valid scheduling problems. Prerequisites for 115: the equivalent of 111 and consent of instructor. Prerequisites for 215: the equivalent of 112 and consent of instructor.

411, 412. Tutorial in French or Spanish.

1-4 cr. hrs.

Extensive directed study in an area of special interest to the student, with preparation and presentation of reports. Prerequisite: consent of the instructor. Offered either semester as needed.

FRENCH

111. Elementary French, I. 4 cr. hrs.

Emphasis on all four elements of the language: listening, speaking, reading, writing. Students will be required to attend five class sessions per week and will be required to spend one hour per week in the LRC.

112. Elementary French, II. 4 cr. hrs.

A continuation of the study of essentials of grammar with further practice in conversation, composition and reading. Prerequisite: FRE 111 or its equivalent. Second semester.

211. Intermediate French, I. 4 cr. hrs.

Review of grammar, further practice in conversation and composition, with emphasis on French culture. Prerequisite: FRE 112 or its equivalent. First semester.

212. Intermediate French, II. 4 cr. hrs.

Study of grammar, emphasizing subordination and the subjunctive. Introduction to literary French and practice in reading narrative prose. Prerequisite: FRE 211 or its equivalent. Second semester.

LANGUAGES

321. Advanced French, I. 4 cr. hrs.
Review of grammar emphasizing the indicative mood (past, present and future tenses) with special attention to summarizing, describing and to asking and answering questions. Listening comprehension exercises are based on authentic recorded broadcasts. Prerequisite: FRE 212. First semester, alternate years. (Replaces 301.)

323. Introduction to French Literature. 4 cr. hrs.
Selections from French authors of all periods are used to introduce students to the study of literature. The course gives a framework built upon in FRE 343 and 413. Students will practice taking notes in French and summarizing them. Prerequisite: FRE 212. First semester, alternate years. (Replaces 311.)

341. French Civilization. 4 cr. hrs.
Art, political and social history and literature and the sources for a study of the development of the French nation. Prerequisite: FRE 321 or 323. Second semester, alternate years. (Replaces 307.)

343. French Literature and Civilization Since the Revolution. 4 cr. hrs.
Complete works by major authors since the Revolution (some previously studied in FRE 323) are read in the light of contemporary political and social institutions. Prerequisite: FRE 321 or 323. Second semester, alternate years. (Replaces 312.)

345. Advanced French, II. 4 cr. hrs.
Review of grammar emphasizing the conditional and subjunctive moods with practice in expressing hypothesis and reservation. Listening comprehension exercises similar to those of French 321 continue, with students required to record and submit their own work. Pre-requisite: FRE 321 or 323. First semester, alternate years. (Replaces 302.)

413. French Literature and Civilization Before the Revolution. 4 cr. hrs.
Complete works by writers of the Renaissance and Classical periods are read in the light of contemporary political and social institutions. Prerequisite: 12 credit hours in French courses at 300 level. Second semester, alternate years. (Replaces 313.)

415. French Literature and Civilization Synthesis. 4 cr. hrs.
Study of new works by some of the same authors studied in FRE 343-413 and an introduction to new authors. Comparison across historical periods to bring out the common tradition of French literature and culture introduced in FRE 341 and 323. Required of all French majors. Spring semester. Prerequisite: 16 credit hours in French courses numbered above 300, including either 343 or 413. (Replaces 414.)

GERMAN

111. Elementary German, I. 4 cr. hrs.
This first course starts with pronunciation and moves into the essentials of grammar. There is practice in conversation, composition and reading. Classes meet four days a week. First semester only. Covers present tense of regular and irregular verbs, modal verbs. Use of pronouns (subject, direct object, and indirect object). Use of nouns (subject, direct object, indirect object, and genitive). Prepositions always requiring dative, accusative, genitive, and the two-way prepositions. Simple past, conversational past, and future tenses.

112. Elementary German, II. 4 cr. hrs.
A continuation of the study of essentials of grammar with further practice in conversation, composition and reading. Classes meet four days a week. Prerequisite: GER 111 or its equivalent. Second semester only. Covers subordinating conjunctions and dependent order. Reflexive verbs, impersonal verbs, and verbs requiring the dative. Adjective endings. Present and past participles used as adjectives. Comparative and superlative forms of adjectives and adverbs.

211. Intermediate German, I. 4 cr. hrs.
Review of grammar, further practice in conversation and composition, reading from representative German authors. Prerequisite: GER 112 or its equivalent. First semester only. Covers present and past participles used as adjectives; comparative and superlative forms of adjectives and adverbs; relative pronouns.

212. Intermediate German, II. 4 cr. hrs.
Introduction to German literature and culture.

Prerequisite: GER 211 or its equivalent. Second semester only. Covers passive and subjunctive.

301. German Composition and Conversation, I. 4 cr. hrs.

An advanced course to improve student competency in writing and speaking the language. Prerequisite: GER 212 or the equivalent. First semester.

302. German Composition and Conversation, II. 4 cr. hrs.

An advanced course to improve on the skills acquired in GER 301, giving the student further practice in conversation and composition. Prerequisite: GER 301, or consent of the instructor. Second semester.

350. Independent Study. 2-4 cr. hrs.

For students who wish to do advanced study in German. May be repeated once with a change in subject matter. Prerequisites: GER 301, 302 or the equivalent; consent of instructor.

SPANISH

111. Intensive Beginning Spanish, I. 4 cr. hrs.

Begins with pronunciation and moves into the essentials of grammar. There is practice in conversation, composition, and reading. Students will have one class session four days a week on a four-day week schedule and a two-hour drill session in one of the three blocks, C, G or J. First semester.

112. Intensive Beginning Spanish, II. 4 cr. hrs.

A continuation of the study of essentials of grammar with further practice in conversation, composition and reading. Prerequisite: SPA 111 or its equivalent. Students will have one class session four days a week on a four-day week schedule and a two-hour drill session in one of the three blocks, C, G or J. Second semester.

211. Intermediate Spanish, I. 4 cr. hrs.

Review of grammar, further practice in conversation and composition, reading from representative Spanish and Latin-American authors. Students will meet with the instructor four class sessions each week, and individual assignments will be given to students with special problems. Prerequisite: SPA 112 or its equivalent. First semester.

212. Intermediate Spanish, II. 4 cr. hrs.

Introduction to Spanish literature and culture. Extensive reading in Spanish to prepare students for the more advanced courses in literature. Students will meet with the instructor four class sessions each week, and individual assignments will be given to students with special problems. Prerequisite: SPA 211 or its equivalent. Second semester.

305. Advanced Spanish Composition and Conversation: Commercial Spanish. 4 cr. hrs.

An in-depth study of essentials of Spanish grammar and concentrated practice of spoken Spanish, focusing on an application to situations found in the business community. Alternate years.

306. Advanced Spanish Composition and Conversation: Literary Emphasis. 4 cr. hrs.

An in-depth study of the essentials of Spanish grammar and concentrated practice of spoken Spanish. Emphasis will be on topics of interest to the student of literature, and the written work will include some creative writing. Alternate years.

307. Hispanic Civilization and Culture. 4 cr. hrs.

A study of the history and cultures of Spain and Spanish America. In-depth consideration of Hispanic art, architecture, music, literature, and philosophy. Prerequisite: SPA 212 or equivalent. Alternate years.

308. Survey of Spanish American Literature. 4 cr. hrs.

A study of the representative works of Spanish America since the days of exploration and conquest. Emphasis is placed on the literature of the 19th and 20th centuries. Prerequisite: SPA 212 or equivalent. Alternate years.

309. Survey of Spanish Literature, I. 4 cr. hrs.

A study of the best of the literature from the Middle Ages until the 19th century. Special attention is paid to the "Golden Age" of Spanish literature in the 16th and 17th centuries. Prerequisite: SPA 212 or equivalent. Alternate years.

LANGUAGES

310. Survey of Spanish Literature, II.

4 cr. hrs.

A study of the best of the literature beginning in 1700 with extensive readings of authors in Spain, particularly those of the 20th century. Prerequisite: SPA 212 or equivalent. Alternate years.

350, 450. Internship in Spanish.

Spanish majors in their junior or senior year may take an internship for a maximum of one credit hour. The exact nature of the internship experience will be worked out with the Spanish faculty and is subject to approval by the chairman of the department. Internship credit may not be applied to credit for the major in Spanish.

JAPANESE

111. Elementary Japanese, I.

4 cr. hrs.

Begins with pronunciation and moves into the essentials of grammar. There is extensive practice in speaking and reading. Self-instructional method. Prerequisite: sophomore, junior, or senior standing; at least a B average; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

112. Elementary Japanese, II.

4 cr. hrs.

A continuation of the study of the essentials of grammar, with further practice in speaking and reading. Taught by self-instructional method. Prerequisites: JPN 111 or the equivalent; sophomore, junior, or senior standing; at least a B average; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

211. Intermediate Japanese, I.

4 cr. hrs.

Further practice in speaking and reading Japanese. Basic skills in writing Japanese are introduced. Taught by self-instructional method. Prerequisites: JPN 112 or the equivalent; sophomore, junior, or senior standing; at least a B average; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

212. Intermediate Japanese, II.

4 cr. hrs.

This course provides extensive practice in

spoken Japanese. Further practice in reading and writing progressively more complicated material. Prerequisites: JPN 211 or the equivalent; sophomore, junior, or senior standing; at least a B average; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

311. Advanced Japanese, I.

4 cr. hrs.

Extensive practice both in written and spoken Japanese. Refines the student's knowledge of Japanese language as preparation for more advanced courses introducing literature. Prerequisite: JPN 212 or the equivalent; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

312. Advanced Japanese, II.

4 cr. hrs.

Continued practice in written and spoken Japanese, and an introduction to basic literary readings. Prerequisite: JPN 311 or the equivalent; permission from the chairman of the department of languages. There is a non-refundable fee for this course.

411. Introduction to Japanese Literature, I.

4 cr. hrs.

Continued practice in written and spoken Japanese. Application of language skills to the study of basic literary works. Prerequisite: JPN 312 or the equivalent; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

412. Introduction to Japanese Literature, II.

4 cr. hrs.

Continued practice in written and spoken Japanese. Application of language skills to the study of basic literary works. Prerequisite: JPN 411 or the equivalent; permission from the chairman of the department of languages. There is a non-refundable examination fee for this course.

LANGUAGES/MATH.-COMP. STUDIES

Classics

THE ROBERT BAYLOR SEMPLE
DEPARTMENT OF CLASSICS

GREEK

111-112. Elementary New Testament Greek. 4 cr. hrs. each

Inflection, syntax, word formation and vocabulary building are emphasized along with reading simple passages from the Greek New Testament.

213. New Testament Greek. 4 cr. hrs.

The vocabulary, inflection, syntax, and style of Koine Greek is studied as it appears in the literature of the New Testament. The student becomes familiar with the standard grammars, lexicons, dictionaries, commentaries, and other resources to gain competency in reading and interpreting the New Testament. Selected portions of the New Testament will be exegeted. First semester, alternate years.

311-312. Independent Study. 4 cr. hrs.

A program of extensive directed study in an area of special interest to the student, with preparation and presentation of reports in class. Enrollment by consent of instructor. Offered on demand.

LATIN

111-112. Elementary Latin. 4 cr. hrs. each

Inflection, syntax, word formation, vocabulary building are emphasized. In the application of grammar, translation will move from simple to more complex.

213. Intermediate Latin. 4 cr. hrs.

Builds on a foundation of grammar attained in 111-112. Emphasis is on readings from a variety of Latin sources. First semester.

301. Philosophy (Ancient and Medieval). 4 cr. hrs.

See course description for Philosophy 301.

310-311. Survey of Ancient History. 4 cr. hrs.

See course description for History 310-311.

Mathematics and Computer Studies

Professor Thoman, chairman; Associate Professor Mathis; Assistant Professors Eichhoefer, Sherrick; Instructor Henson.

MATHEMATICS

B.A. in Mathematics

Major: 32 semester hours including Mathematics 199, 200, 201, 281, and three courses whose numbers are 300 or above.

B.S. in Mathematics with Data Processing Emphasis

Major: Mathematics 199, 200, 201, 281, 335, one upper level elective in mathematics; Computer Studies 160, 170, 215 plus two computer studies electives; Accounting 211, 221; Business Administration 201, 301.

Students majoring in mathematics may receive certification to teach mathematics in grades 7-12 in the State of Missouri by completing the General Education, Professional Education and Teaching Field Requirements outlined in the *Student Handbook for Teacher Certification*, available in the department of education office.

99. Basic Algebra. 2 cr. hrs.

An introduction to algebra including the language of algebra, linear and quadratic equations, factoring and polynomials. Designed to prepare students for college algebra (MAT 145) and other quantitative courses. May not count toward satisfaction of the general education requirement in Mathematics and the Natural Sciences. Offered every semester, second seven weeks.

105. Structure of the Number System. 4 cr. hrs.

Develops basic vocabulary and concepts of the numbers system, including topics of geometry and algebraic extensions. Prerequisite: fewer than three units of high school mathematics; or elementary education majors.

145. Introduction to College Mathematics. 4 cr. hrs.

Topics will be selected from algebra and analytic geometry to give an insight into the nature, role and scope of mathematics with emphasis

MATH.-COMP. STUDIES

on algebra. Prerequisite: three years of high school mathematics; no senior math analysis or calculus.

150. Discrete Mathematics. 4 cr. hrs.

An introduction to logic, sets, functions, combinatorics, and graph theory. Intended for freshmen with high school mathematics through Algebra II.

199. Calculus I. 4 cr. hrs.

An introduction to the concepts of limits, continuity and the derivative. Includes the techniques and applications of the derivatives and differentials of the elementary functions. Prerequisite: three units of high school mathematics. First semester.

200. Calculus II. 4 cr. hrs.

A continuation of MAT 199 including the derivative of transcendental functions and single variable integral calculus. Prerequisite: Calculus I or advanced placement. Second semester.

201. Calculus III. 4 cr. hrs.

Sequences, series, solid analytic geometry and multivariate calculus. Prerequisite: MAT 200 or advanced placement. First semester.

202. Calculus IV. 4 cr. hrs.

Ordinary differential equations. Solution of differential equations by operators, power and Fourier series and Laplace transforms included. Prerequisite: MAT 201. Second semester, alternate years.

216. Elementary Statistics for Social Sciences. 4 cr. hrs.

A first course in statistics for students in education and the social sciences. Collection, interpretation and presentation of statistical data. No mathematical background assumed. Second semester.

281. Applied Linear Algebra. 4 cr. hrs.

Development of the algebra and calculus of matrices, introductory theory of vector spaces and eigenvectors with particular attention to topics that arise in applications. Applications include the use of matrices to represent arrays of data, least squares approximations to data, the concept of the generalized inverse and linear programming. Attention is also given to

numerical methods for solving systems and the eigen-value problem. Prerequisite: MAT 199 or equivalent. First semester, alternate years.

301. College Geometry. 3 cr. hrs.

A study of Euclidian Geometry, finite geometries, and non-Euclidian geometries. Prerequisites: junior standing or consent of instructor. Second semester, alternate years.

305. Introduction to Probability and Mathematical Statistics. 4 cr. hrs.

An introduction to probability spaces, distribution and estimation theory with emphasis on model building. Prerequisite: MAT 201. Second semester, alternate years.

335. Numerical Analysis. 4 cr. hrs.

A study and analysis of the numerical methods of solving algebraic and transcendental equations, ordinary and partial differential equations in integration and other mathematically expressed problems. Prerequisite: MAT 200 and CST 120. Second semester, alternate years.

347. Abstract Algebra. 4 cr. hrs.

An introduction to groups, rings, integral domains and fields. Course material includes LaGrange's Theorem, isomorphism theorems, Caley's Theorem, Sylow's Theorem, polynomial rings and ideals. Prerequisite: MAT 201. First semester, alternate years.

410. Analysis I. 4 cr. hrs.

A rigorous approach to the study of functions, limits, continuity, differentiation and integration of functions of one and several variables. First semester, alternate years.

451. Advanced Mathematics Seminar. 4 cr. hrs.

Special topics in advanced mathematics for juniors and seniors to provide advanced study opportunities in analysis, algebra and applied mathematics.

490. Independent Study. 1-4 cr. hrs.

Approved on- or off-campus projects in independent research and reading by mathematics majors.

COMPUTER STUDIES

B.A. in Computer Science

Major: CST 160, 170, 225, 320, 335, 406;
MAT 150, 199, 200, 281.

B.S. in Systems and Data Processing

Major: CST 160, 170, 215, 235, 265, 325;
ACC 211, 221; MAT 216 or BUS 318; BUS
201, 326 plus one elective from BUS 301, 305,
315 or ECO 308.

120. BASIC. 2 cr. hrs.

Elements of BASIC to enable the computer user to write and solve beginning to intermediate computer programs.

130. Introduction to Computers. 2 cr. hrs.

An overview of computer information systems. Introduces computer hardware, software, procedures and systems with emphasis on micro-computer applications: word processors, spreadsheets and data bases.

140. Advanced BASIC. 2 cr. hrs.

A continuation of the study of BASIC language with emphasis on file usage in business programs. The course will include constructing and using sequential, random access, and indexed files. CST 120 or equivalent. Second semester.

160. Computer Science I. 4 cr. hrs.

Structured approach to programming methodology, algorithms and elementary data structures using Pascal. Corresponds to the contents of CST 1 in the recommended curriculum of ACM. First semester.

170. Computer Science II 4 cr. hrs.

A continuation of Computer Science I, CST 160, with emphasis on the development of more complex algorithms and additional data structures including stacks, queues, linked lists, and trees, using Modula-2. Corresponds to the contents of CST 2 in the recommended curriculum of ACM. Prerequisite: CST 160. Second semester.

210. Introduction to Compiler Concepts.

4 cr. hrs.

Study of the process of translating high-level programming language constructs to lower-level machine-oriented code. Concepts include: introduction to formal language theory, token recognition, lexical analysis, parsing of context-

free languages and generation of symbolic machine code. Prerequisite: CST 160, 170 or equivalent. Second semester, alternate years.

215. COBOL—Programming and Applications. 4 cr. hrs.

Introduction to the application of computing in business using COBOL and a structured approach to programming. Prerequisite: CST 160 or equivalent.

225. ASSEMBLER Language. 4 cr. hrs.

Major emphasis on learning the machine-oriented ASSEMBLER language. Content will include the number systems, data representations and instruction formats associated with machine languages. Labs will be used to acquaint the student with the software and system operations involved in compiling and executing ASSEMBLER language programs in a disc-operating system. Prerequisite: CST 160, 170 or equivalent. First semester, alternate years.

235. Systems Analysis and Design.

4 cr. hrs.

An introduction to the role of the systems analyst in analyzing and designing a data processing system. Knowledge of BASIC and COBOL is assumed. Prerequisite: CST 215. First semester.

265. Business/Financial Information Systems. 3 cr. hrs.

Data processing characteristics of the financial and business systems automated by most commercial and manufacturing firms. Emphasis on the interaction and relations of the systems to one another and on the importance of system controls. Prerequisite: CST 235. Second semester.

320. Data Structures. 4 cr. hrs.

The models used to represent data-objects in memory including sets, lists, arrays, strings, linked lists, graphs, trees. Also, methods of manipulating the structures: searching, sorting, hash coding, pointers. Prerequisite: CST 160, 170. First semester.

325. Data Base Management Systems.

4 cr. hrs.

Survey of the design and capabilities of data base and data management systems. Experience techniques of data organization in a

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data base environment employing the query language of a typical data base management system. Prerequisite: CST 215. Second semester.

335. Numerical Methods. 4 cr. hrs.
See course description for Mathematics 335.

403. Advanced Computer Studies Seminar. 1-4 cr. hrs.

Special topics in advanced computing including Prolog, Artificial Intelligence, Advanced COBOL, Fortran.

406A & B. Micro-Computer Architecture and Interfacing. 2-4 cr. hrs.
See course description for Physics 406.

490. Independent Study. 1-4 cr. hrs.
Approved on- or off-campus projects in independent reading and research by majors in computer science or systems and data processing.



Music

Professor D. Brown, chairman; Professors Epley, Posey, Riddle, Wilder; Associate Professor Emig; Assistant Professors H. Brown, Permenter, Rogers, Schaefer, Witzke.

The music department, an accredited institutional member of the National Association of Schools of Music, offers two degree programs: the bachelor of arts and the bachelor of science.

Teacher certification programs in vocal (K-12), instrumental (K-12) and combined vocal/instrumental (K-12) music are available through the bachelor of science degree program. Additional information about music education is available from the student's major advisor, from the *Music Department Student Handbook*, (in the music department office) and from the *Student Handbook for Teacher Certification*, in the education department office.

Both degrees require 124 credit hours for graduation (exclusive of ensemble and recital requirements).

Under the bachelor of arts degree, 40 hours of music credit are allowed (exclusive of required ensemble credits). The core music requirements are as follows: 16 hours of basic musicianship/theory, 6 hours of music history, 2 hours of conducting, 12 hours of applied study (including keyboard), and 4 hours of music electives.

Within the bachelor of science program, 60 hours of music are required (exclusive of required ensemble credits). All students complete a common core of music studies which includes: 16 hours of basic musicianship/theory, 6 hours of music history, 4 hours of conducting, 4 hours of counterpoint/analysis, and 18 hours of applied study (including keyboard) for a total of 48 hours. The remaining 12 music hours are elective and may be selected to support the student's professional goals: public school music, church music, performance, theory/composition, private teaching, or music business. Specific programs are included in the *Music Handbook* available on request from the music office and given to each entering music major.

The music major can also be combined with other majors such as business, chemistry, communication, English, math, religion and so on. Sometimes these established programs do not meet the academic or vocational needs of a particular student. In these cases, the college provides an opportunity for the student to design an individual major program of study. Further information is available upon request.

Music, except for performing groups, the first two semesters of an applied music sequence, and Music 354, can be counted toward Humanities credits in completing the General Education Program I curriculum or the distribution component of Program II, Foundations for the Future.

MUSIC THEORY

All students should be prepared to take Music 101a-b-c, 102a-b-c, 201a-b, and 202a-b as complete four-hour courses.

101. Introduction to Basic Musicianship.

4 cr. hrs.

101a. Introduction to Basic Musicianship: Music Literature. (2 cr. hrs.) A general introduction to the elements of music, its forms, historical periods, and representative literature. First semester.

101b. Introduction to Basic Musicianship: Music Fundamentals. (1 cr. hr.) A detailed aural and written study of basic theoretical concepts, the elements of music, and music notation. First semester.

101c. Introduction to Basic Musicianship: Keyboard Harmony I. (1 cr. hr.) Application of theory to the keyboard: chord study, harmonization of melodies; transposition; modulation; scales and cadences; sight reading. First semester.

102. Music Theory and Ear Training I.

4 cr. hrs.

102a. Music Theory I: Diatonic Harmony. (2 cr. hrs.) A study of the principles of diatonic harmony, nonchordal tones, and secondary dominants, including four-part writing, analysis, and creative work. Prerequisite: MUS 101b. Second semester.

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102b. Music Theory I: Ear Training. (1 cr. hr.)
Sightsinging and dictation of diatonic scales, intervals, triads, rhythmic groups, and tonal melodies. Prerequisite: MUS 101b. Second semester.

102c. Music Theory I: Keyboard Harmony II. (1 cr. hr.) Continuation of Keyboard Harmony I. Prerequisite: MUS 101c. Second semester.

201. Music Theory and Ear Training II. 4 cr. hrs.

201a. Music Theory II: Chromatic Harmony. (3 cr. hrs.) A study of the principles of chromatic harmony and modulation to closely and distantly related tonalities, with a continuing emphasis on writing and analysis. Prerequisite: MUS 102a. First semester.

201b. Music Theory II: Ear Training II. (1 cr. hr.) Sightsinging of tonal melodies, canons, and part music in treble, bass, and C-clefs. Dictation of tonal melodies, rhythmic groups, harmonic intervals, and two- and four-part music. Prerequisite: MUS 102b. First semester.

202. Music Theory and Ear Training III. 4 cr. hrs.

202a. Music Theory III: Twentieth Century Harmony. (3 cr. hrs.) A study of the techniques of 20th-century compositions; and investigation of Impressionistic, dynamistic, nationalistic, serialistic, aleatoric, and electronic practices. Prerequisite: MUS 201a. Second semester.

202b. Music Theory III: Ear Training III. (1 cr. hr.) Sightsinging of tonal, atonal, and modal melodies, canons, and part music. Dictation of tonal, modal, and modulating melodies, harmonic intervals, rhythmic groups, and two-, three-, and four-part music. Prerequisite: MUS 201b. Second semester.

301. Music Theory IV: Counterpoint. 2 cr. hrs.

A study of 18th-century contrapuntal techniques, including analysis of representative literature and creative writing. Prerequisite: MUS 202a. First semester.

302. Form and Analysis. 2 cr. hrs.
A study of the classical forms in music and analysis of representative works of different

musical forms and historical periods.
Prerequisite: MUS 202a. First semester.

401. Instrumentation. 2 cr. hrs.

A study of the acoustical and timbral properties of wind, string, and percussion instruments, and experience in scoring for various combinations of these instruments. Prerequisite: MUS 201 or permission of instructor. First semester, 1988.

402. Composition. 2 cr. hrs.

A study of the techniques and practical experience in the composition of the smaller musical forms for both the instrumental and vocal media. Prerequisite: MUS 201 and permission of instructor. First semester, 1987.

403. Arranging. 2 cr. hrs.

A study of techniques involved in and practical experience in the arranging of existing music for both the instrumental and vocal media. Prerequisite: MUS 201 and permission of instructor. Second semester, 1988.

HISTORY AND APPRECIATION

140. Music Appreciation. 4 cr. hrs.

Open to all students desiring an understanding of music as an element of liberal culture. Designed to develop competence in listening to music and to offer meaningful experiences in legitimate music. Previous training in music not required. Non-majors only.

341. History of Western Music. 3 cr. hrs.

A survey of music of Western Civilization through the Baroque Era. Approval of instructor. First semester.

342. History of Western Music. 3 cr. hrs.

Begins approximately 1720 and continues through the Contemporary period. Approval of instructor. Second semester.

441. Music Literature: Performance Practices and Historical Research.

2 to 4 cr. hrs.

May be offered as a specialized course in the literature of a specific area, e.g., Choral Literature, Vocal Literature, Piano Literature, Symphonic Literature, Chamber Music. Prerequisite: permission of instructor. Offered on demand.

PRIVATE INSTRUCTION

Private instruction indicates private lessons in the performing areas listed below. One half-hour lesson per week plus one hour of practice per day earns one semester hour of credit. All students are required to participate in a studio recital each semester. All applied music students will participate in a vocal or instrumental ensemble unless excused by the department chairman. The times for music lessons are arranged through the music office. There is a fee charged for all lessons.

Private study is available on two levels: General (MUS 211 or 212) and Advanced (MUS 411 or 412). Advanced level is allowed only with permission of the music faculty. Although specific requirements may vary among the applied areas, each student must successfully complete two semesters of study before the student can be considered for advanced study. All private lessons may be repeated as desired, using the same number where necessary.

The last digit of the course number indicates the number of credit hours. The section abbreviations indicate the exact area of study.

Lessons are offered in:

Piano	PN
Organ	OR
Harpsichord	HP
Voice	VO
Violin	VN
Viola	VA
Cello	VC
String Bass	SB
Bass Electric Guitar	BG
Classical Guitar	CG
Flute	FL
Oboe	OB
Clarinet	CL
Saxophone	SX
Bassoon	BS
Trumpet	TP
French Horn	FH
Trombone	TB
Euphonium	EU
Tuba	TU
Percussion	PC

CLASS INSTRUCTION

111PN. Class Piano. 1 cr. hr.
A minimum of four and a maximum of eight students. Beginning piano through level four. May be repeated using the same number. (Fee charged)

111VO. Class Voice. 1 cr. hr.
A minimum of four and a maximum of eight students. Open to all students. Fundamentals of singing; posture, breath control, vocal placement, and vocal literature are introduced. Offered as needed. May be repeated using the same number. (Fee charged)

111CG. Class Guitar. 1 cr. hr.
Designed for beginners interested in functional guitar. Basic techniques in classical guitar to include major/minor chords, inversions and scales with application of materials used in elementary music. May be repeated using the same number. (Fee charged)

MUSIC EDUCATION

351. Methods in String Instruments. 2 cr. hrs.
The study of violin, viola, cello and bass. Teaching techniques for string instruments.

352. Methods in Woodwind Instruments. 2 cr. hrs.
The study of clarinet, flute, oboe, bassoon, and saxophone. Fundamentals of technique, maintenance and simple repairs. Examination and evaluation of teaching methods. Teaching techniques for woodwind instruments. Second semester.

353. Methods in Brass and Percussion Instruments. 2 cr. hrs.
The study of trumpet, trombone, euphonium, French horn, tuba, and percussion with emphasis on the teaching of these instruments. First semester.

451. Music Methods in the Elementary Schools. 2 cr. hrs.
Methods, materials and techniques for teaching music in the elementary school. Consent of the instructor. First semester.

452. Vocal Music Methods in the Secondary Schools. 2 cr. hrs.
Methods, materials and techniques for teaching

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music in grades 7-12. Majors only. Second semester, first seven weeks.

453. Instrumental Methods in the School. 2 cr. hrs.

Methods, materials and techniques for teaching instrumental music in the public school. Majors only. Second semester, first seven weeks.

462. Vocal Pedagogy. 2 cr. hrs.

A study of comparative vocal pedagogy including concepts of vibrato, registers, dynamics, range, breathing, support, tone, placement, resonance, and voice classification. Practical application through observation and supervised teaching. First semester, 1988.

CONDUCTING

361. Conducting. 2 cr. hrs.

Instrumental conducting techniques including the use of the baton. Prerequisite: Music fundamentals and Theory and Ear Training I. First semester.

362. Conducting. 2 cr. hrs.

Continuation of 361, choral techniques. Experience with campus ensembles. Consent of instructor. Second semester.

CHURCH MUSIC

343. Church Music. 4 cr. hrs.

Organization and direction of the multiple choir system. Vocal methods for children, youth and adults. Church music administration (including preparation of music budget), general worship philosophies, handbell techniques. Second semester, 1989.

344. The Church and Its Hymnody. 4 cr. hrs.

An historical study of hymns and hymn writers and of the place of hymn singing in worship. An analysis of the elements constituting good hymns, and a critical study of published hymnals. Taught by the music department faculty. Second semester, 1988.

345. Instrumental Music in the Church. 2 cr. hrs.

A seminar for the church musician in the organization, maintenance and use of instrumental music in the church. Contents include the study of instrumentation, literature, arranging, instrument procurement and maintenance, and computer assisted programs. First semester, 1988.

371. Organ Service Playing. 2 cr. hrs.
Survey of music appropriate for use in church, and practice in improvisation, modulation, accompanying, and sightreading as applied to the worship service. Second semester, 1988.

PERFORMING ORGANIZATIONS

Varieties of performing experiences are available to all qualified students. Non-music majors may use up to eight hours' ensemble credit as elective hours toward graduation. The same course number is used when repeating the ensemble.

TRAINING ENSEMBLES

103A. Beginning Handbells. No Credit

103B. Training Orchestra. 1 cr. hr.

CHAMBER ENSEMBLES No Credit

Each ensemble may not be offered each semester.

- 203A. Advanced Handbells.
- 203B. Intermediate Handbells.
- 203C. Chamber Singers.
- 203D. Cardinal Brass.
- 203E. Chamber Strings.
- 203F. Flute Choir.
- 203G. Woodwind Ensemble.
- 203H. String/Piano Ensemble.
- 203I. Percussion Ensemble.
- 203J. Guitar Ensemble.
- 203K. Vocal Ensemble.

LARGE ENSEMBLES

303. Chapel Choir. 1 cr. hr.

Membership in the Chapel Choir is open to the student body. Membership auditions are held each semester. The choir sings for college worship services, presents concerts in area churches, and makes an annual tour. The tour choir consists of approximately 80 voices and is selected from the membership of the Chapel Choir. Applicable to vocal ensemble requirements for music majors.

304. Concert Choir. No credit

An organization of limited membership selected for tone production and musicianship. This organization represents the college in public engagements. Its repertoire includes sacred and secular works. Members are selected by audition. Those auditioning should plan to remain in the group for the entire school year.

305. Symphonic Band. 1 cr. hr.

Open to all students by audition, this 60-piece band meets three times weekly. Primarily a concert organization, the band does not march. The group presents area concerts and tours annually. Applicable to instrumental ensemble requirements for music majors.

306. Jazz Band. No credit

The Jazz Band offers a creative outlet for the instrumental musician through performance of a variety of jazz literature. The Jazz Band performs concerts on campus and in the Kansas City area, as well as at home football games and other selected athletic events. Membership is achieved by audition, subject to fixed stage band instrumentation.

307. Liberty Symphony. 1 cr. hr.

This orchestra is open to all students and community musicians as openings are available. The symphony rehearses once a week for two hours, and presents four programs a year. Applicable to instrumental ensemble requirements for music majors.

PROFESSIONAL COURSES

354. Recording Studio Techniques. 3 cr. hrs.

A study and practical application of recording techniques and development of recording skills. Designed to develop competency in electronic audio recording, especially through "hands-on" use of equipment and software. May not apply toward satisfaction of Humanities requirement. Also listed as COM 354.

370. Independent Study. 1-4 cr. hrs.

372. Organ Pedagogy. 2 cr. hrs.

Survey of organ method books. Practical application through observation and supervised teaching. Second semester, 1989.

375. Opera Workshop. 1 cr. hr.

Study of a selected opera or operetta. The study will include examination of the music and libretto and the effect these elements have on the characterization of each role. Other works and composers that relate to the selected opera will also be examined. Prerequisites: permission of the instructor. First semester.

376. Piano Accompanying. 1 cr. hr.

Piano accompanying techniques for basic vocal and instrumental solos. Representative works from contrasting periods of music. Offered on demand.

377. Piano Pedagogy: Teaching Beginning Students. 2 cr. hrs.

Study of principles of teaching for individual and class instruction for the beginning student. Survey of methods and materials. Practical application through observation and supervised teaching. First semester, 1987.

378. Piano Pedagogy: Teaching Intermediate Students. 2 cr. hrs.

Study of principles of teaching the intermediate student. Survey of methods, materials and literature. Practical application through observation and supervised teaching. First semester, 1988.

379. Guitar Pedagogy. 1-2 cr. hrs.

A study of principles of teaching class and private guitar. Analysis of current methods, repertoire and historical survey. Practical application through observation and supervised teaching. Prerequisites: Guitar Class 135(6) or instructor's consent. Offered as needed.

Nursing

Professor Johnson, chairwoman; Professor Edwards; Associate Professors Edison, Kersten, Thompson; Assistant Professors Bakewell, Godfrey, Massa, Richert, Sullivan, Webb; Instructors Clark, Meyer.

The nursing program at William Jewell College is a carefully designed program of professional studies in nursing, liberal arts courses, and professional support courses which leads to the bachelor of science degree with a major in nursing.

The department is accredited by the Missouri State Board of Nursing, and graduates are eligible to apply to take the State Board Examination for licensure (refer to the State of Missouri Nursing Practice Act, 335.000). The department is accredited by the National League for Nursing.

The program is based on a philosophy of nursing as a combination of scientific

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competence and sensitivity to human needs, with an emphasis on the well-being of the whole person. The faculty emphasizes the responsibility and accountability of the individual learner, the blending of academic and practical knowledge, and the highest degree of professional ethics. A full statement of the philosophy and conceptual framework of the nursing program at William Jewell College is available from the department offices.

ADMISSION

Students are admitted twice each year. A minimum cumulative grade point average of 2.50 with a minimum of C in all science courses is required to be eligible for admission to the program. Students may begin the program in the spring or summer semester. To have an application considered for spring admission, the completed application must be filed with the department by Nov. 1. To have an application considered for summer admission, the completed application must be filed with the department by April 1. A detailed statement of policies and procedures is available in the Department Student Handbook. A maximum of 60 students will be admitted each year.

Registered Nurse Admission: Graduates of approved Diploma or Associate Degree programs will be considered for admission to the department. Further information regarding the program for registered nurses is available upon request.

Transfer Student Admission: Transfer students must have a 2.50 GPA, a minimum of C in all science courses, and a semester of course work at William Jewell College prior to acceptance into the nursing program. Transfer students may enter N250 in the spring or summer semesters. Nursing courses do not usually transfer among nursing programs.

Applications: The faculty will act only upon completed applications which include:

1. Department of nursing application form.
2. High school transcripts.
3. Official transcripts from each college attended.
4. Verification of current professional licensure (R.N. applicants only).

It is the student's responsibility to ascertain that the application is complete.

Spring and Summer Admission: To begin Nursing 250 during the spring or summer semester, a student must have completed the following prerequisites or equivalents:

English 100
Communication 100
Psychology 211
Sociology 211
Biology 125
Biology 221
Biology 243

Chemistry requirements fulfilled by any of the following combinations:

Chemistry 101 & Winterim Chemistry
Chemistry 101 & 102
Chemistry 105

In addition the following courses must have been completed as prerequisites, or may be taken concurrently with Nursing 250 in either spring or summer semester:

Biology 244
Biology 307
Philosophy 202
Psychology 306

Education 205 must have been completed as a prerequisite for Nursing 330.

201. Professional Seminar. 2 cr. hrs.

This course is designed to promote students' understanding of and entry into the nursing profession. Emphasis is placed on the development of attitudes and values supporting roles of professional nurses. The course includes an introduction to the philosophy and conceptual framework of the department of nursing, a brief history of nursing, roles of the professional nurse, study/test-taking skills, and problem solving/decision making. First semester.

250. Introduction to Nursing. 5 cr. hrs.

Introduction to the major concepts of the curriculum framework. The following concepts are emphasized in classroom and laboratory situations: systems theory, nursing process, developmental theory, health, professionalism and research. Also included are beginning nursing skills necessary to provide nursing care. Laboratory and clinical experience assist the student in applying basic

nursing and assessment skills. An average of four hours lecture and three hours clinical practice/laboratory per week. Prerequisite: see admission criteria. Second semester.

251. RN Bridge Course. 2 cr. hrs.

This course is designed as a bridge for registered nurse students (RN) beginning their baccalaureate course work in nursing. Prerequisites: acceptance into Nursing Program, current licensure as a registered professional nurse.

330. Nursing Process I. 8 cr. hrs.

The course is the first in the nursing curriculum with a major clinical component. The focus is on applying nursing process in health management with childbearing and childrearing families. Emphasis is placed on physical, psychosocial, and spiritual assessment of the individual within the family system. The clinical component includes six weeks' experience in two major clinical areas: obstetrical and pediatric nursing. Four lecture hours and 12 clinical hours per week. Prerequisite: NUR 250 and EDU 205. Corequisite: NUR 340. First semester.

340. Human Pathophysiology. 4 cr. hrs.

A study of human pathophysiological processes and responses. Physical assessment theory and laboratory practice are included. Prerequisite: BIO 243, 244; NUR 250. First semester.

350. Nursing Process II. 8 cr. hrs.

Designed to build upon the basic skills and theories taught in NUR 330. The focus is on applying nursing process in the health management of adult individuals and families. Emphasis is placed on assessment of illness and wellness components of the health continuum utilizing a holistic framework. The clinical component consists of experience in medical-surgical nursing. Four hours of lecture and 12 hours of clinical practicum and practice laboratory per week. Prerequisite: NUR 250, 330, 340. Second semester.

420. Nursing Research. 2 cr. hrs.

Introduction to basic research methodology and its application to nursing. Prerequisite: MAT 216; NUR 250, 330, 340, 350. First semester.

422. Special Topics in Nursing. 2 cr. hrs.

This course is designed to provide an in-depth learning experience for the senior nursing student. Focus is on student presentations and discussions of selected topics. Prerequisite: NUR 250, 330, 340, 350. First semester.

425. Nursing Issues. 2 cr. hrs.

Discussion of current and future issues in nursing. Emphasis is on student presentations and discussions. Prerequisite: NUR 250, 330, 340, 350, 420, 432, 434. Second semester.

432. Nursing Process III. 4 cr. hrs.

Emphasizes nursing care of clients with dysfunctional behavior. The focus is on applying the nursing process in assisting clients to achieve the maximum level of mental health. Four hours of lecture per week and 12 hours of clinical experience for seven weeks in a psych/mental health setting. Prerequisite: NUR 250, 330, 340, 350; PSY 303. First semester.

434. Nursing Practice Elective. 4 cr. hrs.

A required nursing elective. Students elect areas of particular interest in which more in-depth knowledge and experience are desired. Four hours of lecture and 12 hours of clinical experience in an area of choice. Prerequisite: NUR 250, 330, 340, 350. First semester.

440. Nursing in Great Britain. 1 cr. hr.

This course is required for senior nursing students who study in England second semester. The course will provide the student with an overview of the British Health Care system, health care services, British nursing education preparation and community roles and cultural variables relating to health in Great Britain. The student will also participate in a community health clinical experience. First semester.

450. Nursing Process IV. 10 cr. hrs.

Ten-hour senior level course which focuses upon community and large group systems as well as environmental stressors and issues in nursing practice including leadership skills and management of groups. The clinical component includes experience in group management in episodic and distributive settings. Four lecture hours per week. Sixteen hours of clinical practicum and one to two hours of clinical conference per week. Prerequisite: NUR 250, 330, 340, 350, 420, 422, 432, 434. Second semester.

260, 360, 460. Independent Study in Nursing. 1-6 cr. hrs.



The Oxbridge Alternative Program

Dean Shannon, Senior Tutor

Oxbridge Alternative tutorial majors are offered in English Language and Literature, History, Institutions and Policy (an interdisciplinary major involving philosophy, politics, and economics), Music, Religious Studies, and Science (an interdisciplinary major in molecular biology).

The small group of outstanding students admitted to the program prepare for senior comprehensive examinations in the major fields by study in individual or small-group tutorials and by independent reading and research. They normally study in either Oxford or Cambridge for all or part of the junior year.

Members of many departments of the college serve as tutors. The seminar and tutorials are open only to students formally admitted to the program.

A general description of the program is given in the Curriculum section of this *Catalog*. For detailed information, please consult *The Oxbridge Alternative Handbook*.

OXA 100. Introductory Seminar. 4 cr. hrs.
An introduction to the research methods, analysis of primary and secondary sources, and writing skills which will be used in tutorials. Subject matter may sometimes vary, but students will always engage in extensive reading, writing, and discussion. Each student will present papers before the group. **Prerequisite: acceptance into the Oxbridge Alternative Program.** Successful completion of the seminar is prerequisite to any tutorial.

Full credit for a tutorial, including a tutorial taken in England in the major subject, is achieved only when the sophomore collection paper or related comprehensive examination papers have been completed. As credit hours

are shown for the tutorials listed below, the first number indicates the credits earned when tutorial work is completed through the collection or comprehensive examination; the number in parentheses indicates the credits earned by tutorial participation and syllabus activities alone. A student who for any reason—including transfer out of the college or withdrawal from the program—satisfactorily finishes syllabus assignments and participates in tutorial sessions but does not finish the work of the tutorial by satisfactory performance on the collection or examination will have earned the number of credit hours shown in parentheses.

Tutorials for THE O.A. TUTORIAL MAJOR in ENGLISH LANGUAGE AND LITERATURE

OXE 200, 300, 400. The Narrative Voice in Literature 8 (4) cr. hrs.
Tutor: Myra C. Unger, Professor of English.
Focus on the two narrative voices in which any writer may present material—autobiographical and fictional. An intensive reading of primary and secondary works on the nature of narrative voice.

OXE 200A, 300A, 400A. Autobiographical Voice. 4 (2) cr. hrs.
OXE 200B, 300B, or 400B. Fictional Voice. 4 (2) cr. hrs.

OXE 210, 310, 410. Realism, Naturalism and Early Modern Fiction. 8 (4) cr. hrs.
Tutor: D. Dean Dunham, Jr., Professor of English

A study of three modes expressed in 19th and 20th century fiction, especially novels written in England, the United States and (in translation) in France, Russia and Germany. The student will consider how philosophical, particularly aesthetic, matters shape literary expression. Generic form will also be introduced.

OXE 210A, 310A, 410A. Realist Modes. 4 (2) cr. hrs.
OXE 210B, 310B, 410B. Naturalist and Modern Modes. 4 (2) cr. hrs.

OXE. 220, 320, 420. The Tragic Impulse in Western Drama. 8 (4) cr. hrs.

Tutor: Kim B. Harris, Professor of Communication.

A survey approach to great Occidental dramatic tragedies. Representative works from virtually every time period will be read as the student studies form and characterization in the plays.

OXE. 220A, 320A, 420A. Tragedy: The Dramatic Form. 4 (2) cr. hrs.

OXE. 220B, 320B, 420B. Tragedy: Perspectives Through Drama. 4 (2) cr. hrs.

OXE. 230, 330, 430. Medieval and Renaissance English and Continental Literature. 8 (4) cr. hrs.

Tutor: John Westlie, Associate Professor of Languages.

The tutorial traces the successive responses to the tradition established by the lyric poets (troubadours) who wrote in Southern France during the 12th century; through northern France, leading to Chaucer; and through the poets of Renaissance Italy to Elizabethan sonnet sequences and Shakespeare.

OXE. 230A, 330A, 430A. Chaucer and the French Tradition 4 (2) cr. hrs.

OXE. 230B, 330B, 430B. Elizabethan Poetry and Italian Literature. 4 (2) cr. hrs.

OXE. 495. English Language and Literature Synthesis. 8 (4) cr. hrs.

Tutors: Staff, Coordinated by John A. Canuteson, Professor of English.

The Synthesis Tutorial introduces the student to four approaches to criticism as aids to understanding the works selected by the student to write about in the comprehensive examination.

Tutorials for THE O.A. TUTORIAL MAJOR IN HISTORY

OXH. 220, 320, 420. Political Leadership in Spanish America. 8 (4) cr. hrs.

Tutor: Antonio Vera, Associate Professor of Spanish.

A general view of Spanish-American history, focusing on the theme of political leadership, and the closely related concepts of political, social, and economic stability. The student will first acquire a general thematic comprehension of the history of the Spanish-American countries. Later, the student will examine the

different views on the subject of political leadership in the area.

OXH. 220A, 320A, 420A. Spanish-American History. 4 (2) cr. hrs.

OXH. 220B, 320B, 420B. Stability and Leadership in Spanish America. 4 (2) cr. hrs.

OXH. 230, 330, 430. Renaissance and Reformation Thought. 8 (4) cr. hrs.

Tutor: Kenneth Chatlos, Professor of History.

A study of the most influential thinkers and movements in Renaissance and Reformation Europe (circa A.D. 1300-A.D. 1600). A careful reading of primary sources related to these thinkers and movements, and of scholarly secondary sources which interpret Renaissance and Reformation thought.

Preparing essays on critical problems related to these thinkers and movements.

OXH. 230A, 330A, 430A. Renaissance Thought. 4 (2) cr. hrs.

OXH. 230B, 330B, 430B. Reformation Thought. 4 (2) cr. hrs.

OXH. 495. History Synthesis. 8 (4) cr. hrs.

Tutor: Kenneth Chatlos, Professor of History.

This Synthesis Tutorial is designed to bring together the student's Oxbridge experience in preparation for comprehensive examinations.

Tutorials for THE O.A. TUTORIAL MAJOR in INSTITUTIONS AND POLICY

OXI. 210, 310, or 410. Moral Philosophy. 8 (4) cr. hrs.

Tutor: Robert S. Trotter, Professor of Philosophy.

An examination of the enduring concepts and principles of moral philosophy and an application of them to arriving at reasonable judgments concerning timely moral issues.

An intensive reading of, and preparing essays on, the classical and contemporary works that are well established as the most valuable for articulating moral issues and for evaluating the arguments in support of positions on them. A probing study of, and the development of moral positions on, the most timely moral issues.

OXI. 210A, 310A, or 410A. Moral Theory. 4 (2) cr. hrs.

OXI. 210B, 310B, or 410B. Moral Issues. 4 (2) cr. hrs.

OXI. 220, 320, 420. Economic Thought.

8 (4) cr. hrs.

Tutor: Michael Cook, Associate Professor of Economics.

The tutorial examines concepts developed by important economic writers.

OXI. 220A, 320A, 420A. Classical**Political Economy.** 4 (2) cr. hrs.**OXI. 220B, 320B, 420B. Modern****Economic Thought.** 4 (2) cr. hrs.**OXI. 230, 330, 430. Man and the Industrial Revolution.**

8 (4) cr. hrs.

Tutor: Elizabeth R. Hoyt, Assistant Professor of Business Administration.

An examination is made of the evolving relationship of man as worker in the industrial organization. Schools of thought which have both shaped and reflected this relationship are studied in their historical context. The experience of the worker in the United States over the last 100 years is emphasized. The reading of primary sources and the preparation of essays is the dominant mode of instruction.

OXI. 230A, 330A, 430A. The Industrial Revolution through the Great**Depression.** 4 (2) cr. hrs.**OXI. 230B, 330B, 430B. World War II to the Present.**

4 (2) cr. hrs.

Tutorials for THE O.A. TUTORIAL MAJOR in MUSIC

OXM. 200. Common Practice Harmony and Beyond: Melodic Harmonic, Contrapuntal, Rhythmic, and Stylistic Practices of the 16th through 20th Centuries.

8 (4) cr. hrs.

Tutor: Sandra Emig, Associate Professor of Music.

A comprehensive study of Common Practice harmonic principles, their development through 16th- and 18th-Century contrapuntal practices, and their dissolution through a variety of 20th-Century compositional practices.

OXM. 200A. Common Practice**Harmony: Diatonic and Chromatic Practices.** 4 (2) cr. hrs.**OXM. 200B. Beyond Common Practice Harmony: Contrapuntal and 20th-Century Practices.**

4 (2) cr. hrs.

OXM. 220, 320, 420. The Development of Western Music from the Early Renaissance**to Mid-20th Century.**

Tutor: Donald C. Brown, Professor of Music.
An examination of significant influences and developments in music of the Renaissance and Baroque Eras.

OXM. 220A, 320A, 420A. The Study of Western Music of the Renaissance**and Baroque Eras.** 4 (2) cr. hrs.**OXM. 230, 330, 430. Instrumental Conducting In Theory and Practice.**

8 (4) cr. hrs.

Tutor: Phillip Posey, Professor of Music.

Instrumental Conducting in Theory and Practice: a technical, historical and practical basis for the development of the instrumental conductor.

OXM. 230A, 330A, 430A. Basic**Instrumental Conducting** 4 (2) cr. hrs.**OXM. 230B, 330B, 430B. Basic****Instrumental Conducting in Practice.**

4 (2) cr. hrs.

Tutorials for THE O.A. TUTORIAL MAJOR in RELIGIOUS STUDIES

OXR. 200. Orientation to the Study of the Bible.

4 (2) cr. hrs.

Tutor: J. Bradley Chance, Assistant Professor of Religion.

An introduction to the historical-critical study of the Bible. Such topics as Pentateuchal criticism, apocalypticism, synoptic gospel criticism, and Israelite, Jewish and early Christian history will be explored. In addition, the implications of historical-critical study on such important issues as biblical theology and inspiration will be examined. The student will read selections from more than 30 representatives of biblical scholarship and will write six essays on different critical, historical, and theological issues.

OXR. 210A, 310A, 410A. The Patriarchs Through the 8th Century Prophets.

4 (2) cr. hrs.

Tutor: David O. Moore, Professor Emeritus of Religion.

An examination of the history and literature of the pre-eighth-century Hebrew community. Emphasis is upon exegesis of Biblical passages relating to each selection section. The student will be expected to master and use the historical-critical method of Biblical study.

OXR. 220, 320, 420. Christian Theology.

8 (4) cr. hrs.

Tutor: David Duke, Associate Professor of Religion.

An introduction to Christian theology by examining the nature of religious faith in its classical and contemporary forms. Exploration of the theme in light of the challenges to faith, especially those related to the theodicy question: how one deals with extraordinary human suffering in light of the orthodox claim that God is both good and omnipotent.

OXR. 220A, 320A, 420A. Faith and Doubt.

4 (2) cr. hrs.

OXR. 220B, 320B, 420B. Faith, Suffering, and the Nature of God.

4 (2) cr. hrs.

OXR. 230, 330, 430. History and Literature of Early Christianity.

8 (4) cr. hrs.

Tutor: J. Bradley Chance, Assistant Professor of Religion.

This tutorial investigates a selection of some of the important documents which emerged from the early decades of the Christian movement. The teachings of Jesus, the message of the earliest followers of the Jesus movement, the theology and ethics of Paul, the interpretations of the Christian message offered by Mark, Luke and John will be examined. The student will read broadly in the New Testament itself as well as from important secondary literature.

OXR. 230A, 330A, 430A. Jesus to Paul.

4 (2) cr. hrs.

OXR. 230B, 330B, 430B. Paul to John.

4 (2) cr. hrs.

Tutorials for THE O.A. TUTORIAL MAJOR in SCIENCE

OXS. 200. Cell and Molecular Biology: An Introduction.

4 (2) cr. hrs.

Tutor: Judith A. Dilts, Professor of Biology.

An introduction to the study of the molecular biology of the cell, this tutorial will include a brief history of cell and molecular biology, an introduction to the microscope, a comparison of prokaryotic and eukaryotic cells and an in-depth study of cellular evolution. Labs included are designed to give lab and analytical skills and to illustrate the topics being studied. The tutorial is designed to cover

14 weeks and assumes a knowledge of freshman level chemistry.

OXS. 210, 310, 410. Calculus.

8 (4) cr. hrs.

Tutor: Joseph Truett Mathis, Associate Professor of Mathematics.

A study of the differential and integral calculus, its development and application. Certain background readings on mathematics, related to mathematical history and the people involved.

OXS. 210A, 310A, 410A. The Differential Calculus.

4 (2) cr. hrs.

OXS. 210B, 310B, 410B. The Integral Calculus.

4 (2) cr. hrs.

OXS. 220. Organic Chemistry.

8 (4) cr. hrs.

Tutor: Marvin Dixon, Professor of Chemistry. The course is a study of the basic reactions of organic molecules and the relationships of structure to reactivity. Reaction mechanisms will be developed and examined. Structures will be defined by physical and chemical techniques. Laboratory skills in synthesis and observation will be developed at the microscale level. The application of basic information to new situations will be an integral part of the course. Textual material, primary and secondary sources, computer programs, audio-visual materials, laboratory experimentation and problem sets compose the learning tools to be used by the student.

OXS. 220A. Organic Chemistry I.

4 (2) cr. hrs.

OXS. 220B. Organic Chemistry II.

4 (2) cr. hrs.

OXS. 240, 340, 440. History of Science: Molecular Biology.

4 (2) cr. hrs.

Tutor: Burdette L. Wagenknecht, Professor of Biology.

A comprehensive study of the sequential development of the field of molecular biology including instrumentation and other supportive concepts required for the development of molecular biology and the impact of the discoveries on society. An intensive reading of and preparing essays on, materials derived from original papers, texts and reviews of the topic.

OXS. 330. Molecular Biology of the Cell: Cellular Membranes. 4 (2) cr. hrs.

Tutor: Daniel L. Mark, Associate Professor of Biology.

The student will probe the nature of cellular membranes. This will include intensive studies of structures and the functions those structures support. The student will do extensive reading and write weekly essays of several cellular membranes (plasma, nuclear, mitochondrial, etc.). Laboratory studies will parallel the weekly essays where the protein component of the study membranes will be characterized.

OXS. 380. Introduction to Research Methods. 4 (2) cr. hrs.

Tutor: Daniel L. Mark, Associate Professor of Biology.

This tutorial introduces the student to methods commonly used in scientific investigation. This will involve intensive studies on the scientific method, statistics, hypothesis formation, and report writing. The importance of publication and peer review is emphasized. Finally the student will be asked to do comparative studies of several scientific procedures.

OXS. 450. Genes. 4 (2) cr. hrs.

Tutor: Judith A. Dilts, Professor of Biology.

A comprehensive, in-depth study of the structure and function of prokaryotic and eukaryotic genes through the use of textual material, primary and secondary sources and problem sets. The laboratory component exposes the student to molecular cloning techniques. A working knowledge of Mendelian genetics is a prerequisite.

OXS. 460. Molecular Biology of the Cell: The Artificial Cell. 8 (4) cr. hrs.

Tutor: Daniel L. Mark, Associate Professor of Biology.

The student is asked to consider the duplication of cell organelle structure and/or function. Essays will be prepared that begin with a brief description of the structure and function of an assigned organelle. The student will then describe current work in the literature concerning the synthetic duplication of this organelle. If this structure has not been duplicated, the student will need to discuss this also. The student will attempt to assemble an organelle of the student's selection and conduct assigned problem set.

OXS. 470. Physical Chemistry for Biologists.

4 (2) cr. hrs.

Tutor: Edwin H. Lane, Associate Professor of Chemistry.

The tutorial examines the topics and applications of physical chemistry which are most relevant to a molecular biologist. Traditional areas of study—thermodynamics, kinetic molecular theory, equilibrium, solutions, reaction rates, etc.—are expanded to include examples from biology. Additional topics, such as membranes, macromolecules and enzymes, are included to present a fuller picture of the use of mathematics, physics and chemistry to biologists. The tutorial emphasizes problem solving and does not include a laboratory.

OXS. 480. Research. 8 (4) cr. hrs.

Tutors: Staff.

The student will design and carry out a research project which culminates in both written and oral presentation of the results.

OXS. 480A. Research I. 4 (2) cr. hrs.

OXS. 480B. Research II. 4 (2) cr. hrs.

OXS. 495. Science (Molecular Biology) Synthesis. 8 (4) cr. hrs.

Tutors: Judith A. Dilts, Professor of Biology, and Daniel L. Mark, Associate Professor of Biology.

Synthesis Tutorial for Oxbridge Science Major, Molecular Biology: The Cell provides a synthesizing framework consisting of the processes involved in cellular metabolism, function, growth and reproduction. The framework provides a structure into which the student can place topics from tutorial and independent study, thus preparing for comprehensive examinations.

Philosophy

Professor Trotter, chairman; Professor David; Assistant Professor Eichhoefer.

THE W.D. JOHNSON DEPARTMENT OF PHILOSOPHY

All philosophy majors are required to take 201, 202 and 231 as well as at least one course in which they write a major paper.

Those completing a second major in philosophy must complete the General Education requirements for the bachelor of arts degree.

PHILOSOPHY

102. Freshman Seminar. 2 cr. hrs.

A course designed to provide an exciting opportunity for a select group of freshmen to engage in discussion of some issue relevant to their individual development. The seminar will be directed by two upperclassmen who will, in consultation with the philosophy department, select the topic and source materials. The course will be conducted entirely on a discussion basis. It will be offered only when qualified upperclassmen are available. Second semester.

201. Introduction to Philosophy. 4 cr. hrs.

A study of the philosophic quest for wisdom concerning such timeless, ever-relevant issues as the existence of God, the validity of religious faith, the nature of the self, the basis of knowledge, the justification of morality, freedom and determinism, and political liberty. The course proceeds largely by discussion of clearly written essays representing contrasting views on the topics and is designed to enable the students to develop skills in stating and defending their own positions on these questions. First semester.

202. Ethics. 4 cr. hrs.

An examination of the major theories of value and moral obligation, and an application of them to such contemporary issues as abortion, euthanasia, sexual morality, discrimination against minorities, the death penalty, world hunger and environmental ethics. The course provides an opportunity for the students to acquire skill in developing their own positions on these questions.

231. Logic. 4 cr. hrs.

A first course in logic designed to aid in the development of critical attitudes, to learn the general methods of inquiry, and to enable the student to formulate independent judgments. The course emphasizes techniques of clarification, deductive and inductive patterns of reasoning. Second semester.

301-302. Seminar. 4 cr. hrs.

An intensive reading and discussion of problems, thinkers, and movements in philosophy. Two seminars are offered each semester. The topics and materials are selected each year in accordance with the needs and interests of those enrolling in the seminars. In alternate years a two-semester survey of the history of philosophy is provided. The seminars are open to any student who has demonstrated in at least one course in philosophy the qualities of self motivation, self discipline, and responsibility essential to the success of the seminars. Topics previously examined and which can be repeated on demand are: Philosophy of Mind, Philosophy of Religion, Philosophers and God, The Existence of God, Freedom and Determinism, Existentialism, Kierkegaard and Nietzsche, Buber and Heidegger, Marcel and Sartre, Philosophy through Literature, American Philosophy, Medical Ethics, Philosophy of Science, Business Ethics, and Philosophy of Creativity. Current topics are History of Philosophy and Philosophy of Mind.

311. Political Philosophy. 4 cr. hrs.

See course description for Political Science 311.

402. Teaching Practicum. 4 cr. hrs.

Upperclass students with considerable background in philosophy who evidence the qualities essential for teaching may be invited to direct a freshman seminar. They will conduct the course under the supervision of members of the department, who will meet with them frequently in conferences to evaluate the progress of the seminar. Second semester.

450. Philosophical Foundations of Education. 2 cr. hrs.

See course description for Education 450.

451, 452. Readings in Philosophy.

1-4 cr. hrs.

Physical Education

*Associate Professor Webster, chairman;
Professor Nelson; Associate Professor Gourley;
Assistant Professors Flook, Hamilton, Holley,
Macke, McGarvey.*

The department of physical education offers a wide variety of courses and experiences to provide education through physical activity for both the major and non-major.

Two hours of physical education are required of all students for graduation. PED 100 is required of all students and should be taken during the first year in residence. The other one hour is elective and may be fulfilled in one of two ways: (1) by taking two one-half hour activity classes, or (2) by taking an additional one-hour activity course. Provisions will be made for students with a physical handicap. Each student may elect up to two additional hours of physical education.

100. Orientation to Physical Education.

1 cr. hr.

(Required of all students.)

The foundations concept is an attempt to educate students with regard to the social environment in which they will live. It provides a background of the scientific principles underlying physical activity, as well as the physiological and psychological effects. Each student is required to demonstrate the ability to swim and show efficiency in an aerobic activity before receiving credit for this course. A grade of incomplete will be given until these requirements are completed.

ELEMENTARY ACTIVITY OFFERINGS

Beginning classes meet twice a week for seven weeks for ½ hr. credit. Courses offered as student demand and faculty availability allow.

102. Aerobics.	½ cr. hr.
103. Angling.	½ cr. hr.
104. Archery.	½ cr. hr.
105. Badminton.	½ cr. hr.
107. Bowling.*	½ cr. hr.
109. Fencing.	½ cr. hr.
110. Golf.	½ cr. hr.

111. Gymnastics.	½ cr. hr.
112. Racquetball.	½ cr. hr.
113. Handball.	½ cr. hr.
114. Judo.*	½ cr. hr.
115. Karate.*	½ cr. hr.
117. I Interpretive.	½ cr. hr.
118. II International Folk.	½ cr. hr.
118A. Ethnic Folk.	½ cr. hr.
119. III Square.	½ cr. hr.
123. Sailing.	½ cr. hr.
125. Slimnastics.	½ cr. hr.
126. Swimming.	½ cr. hr.
128. Tennis.*	½ cr. hr.
131. Trapshooting.	½ cr. hr.
132. Tumbling.	½ cr. hr.
133. Weight Training.	½ cr. hr.
134. Horsemanship.*	½ cr. hr.
135. Recreational Horsemanship.*	½ cr. hr.
136. Jogging.	½ cr. hr.
137. Recreational Sports.	½ cr. hr.
138. Rhythmic Aerobics.*	½ cr. hr.
138A. Aerobic Swimming.	½ cr. hr.
140. Special Activities.*	½ cr. hr.

Includes but not limited to Ballet, Ice Skating, Intermediate Ballet, Roller Skating, Tap, Tent Camping-Backpacking as student demand and faculty availability allow course to be offered.

*Fee Courses.

ADVANCED ACTIVITY OFFERINGS

Classes meet four times a week for seven weeks for one hour credit. Courses offered as student demand and faculty availability allow.

201. Baseball-Softball.	1 cr. hr.
202. Basketball.	1 cr. hr.
205. Football.	1 cr. hr.
206. Advanced Tennis.*	1 cr. hr.
207. Advanced Gymnastics.*	1 cr. hr.
208. Soccer.	1 cr. hr.
209. Advanced Swimming.	1 cr. hr.
211. Track and Field— Cross Country.	1 cr. hr.
212. Volleyball.	1 cr. hr.

PHYSICAL EDUCATION

- 213. Wrestling.** 1 cr. hr.
214. Advanced Golf. 1 cr. hr.
215. Scuba Diving.* 1 cr. hr.

*Fee Courses.

MAJOR IN PHYSICAL EDUCATION

The department offers programs leading to both the bachelor of science and bachelor of arts degrees. In addition, students may be certified to teach physical education in grades 1-12. Physical education majors are *required* to be certified to teach in at least one other field prior to graduation.

Major: 30 to 40 hours depending on certification requirements and type of major.

MAJOR COURSES

- 225. Officiating.** 2 cr. hrs.
 A study of the techniques of officiating of team sports, plus officiating in the intramural games.

- 250. Health Science.** 2 cr. hrs.
 The fundamental laws of health and the health relations of the individual to the community. Second semester.

- 251. American National Red Cross First Aid Course.** 1 cr. hr.
 Offered on arrangement each semester by the department with assistance by the local Clay County American Red Cross Office.

- 255. Introduction to Physical Education.** 1 cr. hr.
 A general orientation course for students planning to major in physical education. First semester. (Majors only)

- 261. Life Saving and Water Safety.** 1 cr. hr.
 Advanced work in swimming strokes, as well as instruction for certification in American Red Cross life saving and water safety. Prerequisites: see instructor for swimming requirements. First semester.

- 262. American National Red Cross Water Safety Instructor Course.** 2 cr. hrs.
 Training course for water safety instructors. Parts I and II will be taught. Part I is concerned largely with the personal skill ability of students. Part II is directed toward

methods of teaching skills. Prerequisite: current Red Cross senior life saving certificate, or instructors whose appointments have lapsed. Second semester.

- 270. Sociology of Sport and Leisure.** 2 cr. hrs.
 See course description for Sociology 270.

- 300. Physiology of Exercise.** 2 cr. hrs.
 A study of human functions under the stress of muscular activity. Prerequisite: BIO 243, junior or senior standing. First semester.

- 360. Care and Treatment of Athletic Injuries.** 2 cr. hrs.
 Prevention, treatment and rehabilitation of common injuries sustained in athletics. First semester.

- 365. Physical Education for Elementary Schools.** 2 or 4 cr. hrs.
 Methods, techniques and activities to aid in teaching physical education in the elementary schools. Emphasis is given to actual teaching experiences. Open to teachers or prospective teachers of elementary schools, or those interested in the physical education program for children. Sophomore level. Second semester.

- 375. Perceptual Motor Development.** 2 cr. hrs.
 A study of the perceptual-motor aspects of the physical development of the young child with an emphasis upon activities designed to facilitate development of specific perceptual-motor skills.

- 380. History and Philosophy of Health, Physical Education and Recreation.** 2 cr. hrs.

An historical and philosophical examination and background of physical education and its role in education from the Greeks to the present. First semester.

- 384. Tests and Measurements in Physical Education.** 2 cr. hrs.
 A survey of knowledge tests, skill tests, fitness tests and other evaluative instruments used by physical education teachers in a wide variety of activities. Juniors and seniors only. First semester.

PHYSICAL EDUCATION

385. Adaptive Physical Education. 2 cr. hrs.
Physical education methods for the mentally, physically and socially handicapped; corrective physical education for body mechanics; developmental physical education for physical fitness. Sophomore level. Second semester.

391. Analysis of Lifetime Activities I. 2 cr. hrs.

Techniques of conditioning, teaching methods and strategies in lifetime activities. A selection of activities will be presented with emphasis upon teaching lifetime activities such as archery, bowling, fitness, weight-training, and racquet sports. Emphasis will be placed upon teaching methods, strategies, and drills for skill development. Fall semester. Prerequisites: sophomore level; completion of physical education activities selected from course offerings 101 through 140. A proficiency test may be requested.

392. Kinesiology. 2 cr. hrs.
A study of the science of body movements. Prerequisite: PED 300. Second semester.

393. Analysis of Lifetime Activities II. 2 cr. hrs.

Techniques of conditioning, teaching methods and strategies in lifetime activities. A selection of activities will be presented with emphasis upon teaching lifetime activities such as golf, tennis, and aerobics. Emphasis will be placed upon teaching methods, strategies, and drills for skill development. Spring semester. Prerequisites: completion of physical education activities selected from course offerings 101 through 140. A proficiency test may be requested.

394. Analysis of Rhythmic Movement. 1 cr. hr.

Techniques of rhythmic movement; i.e., international folk, ethnic folk, square, ballet. Must be taken concurrently with Square 119 and International Folk 118. Required for K-12 certification. Sophomore level.

395. Analysis of Coaching Football. 2 cr. hrs.

Techniques of motivation, conditioning, and strategy of coaching varsity football. Sophomore level. First semester.

396. Analysis of Coaching Basketball. 2 cr. hrs.

Techniques of motivation, conditioning, and strategy of coaching varsity basketball. Sophomore level. Second semester.

397. Analysis of Coaching Baseball and Softball. 2 cr. hrs.

Techniques of motivation, conditioning, and strategy of coaching varsity baseball and softball. Sophomore level. Second semester.

398. Analysis of Coaching Track and Field. 2 cr. hrs.

Techniques of motivation, conditioning, and strategy of coaching varsity track and field. Sophomore level. Second semester.

399. Analysis of Coaching Volleyball. 2 cr. hrs.

Techniques of motivation, conditioning, and strategy of coaching varsity volleyball. Prerequisite: PED 212 or instructor's approval. Sophomore level. First semester.

400. Organization and Administration of Health, Physical Education and Recreation. 2 cr. hrs.

A study of policies in organization and administration of the physical education and recreation program, classification of students, staff, teaching load, time schedule, financing, care of the physical education plant, records and interschool relations. Junior level. Second semester.

460. Methods of Teaching Physical Education. 2 cr. hrs.

A comprehensive treatment of class organization and management, curriculum in physical education, discipline, grading policies and current problem areas in physical education. Seniors only. First seven weeks.

402. Independent Study in Physical Education. 1-6 cr. hrs.

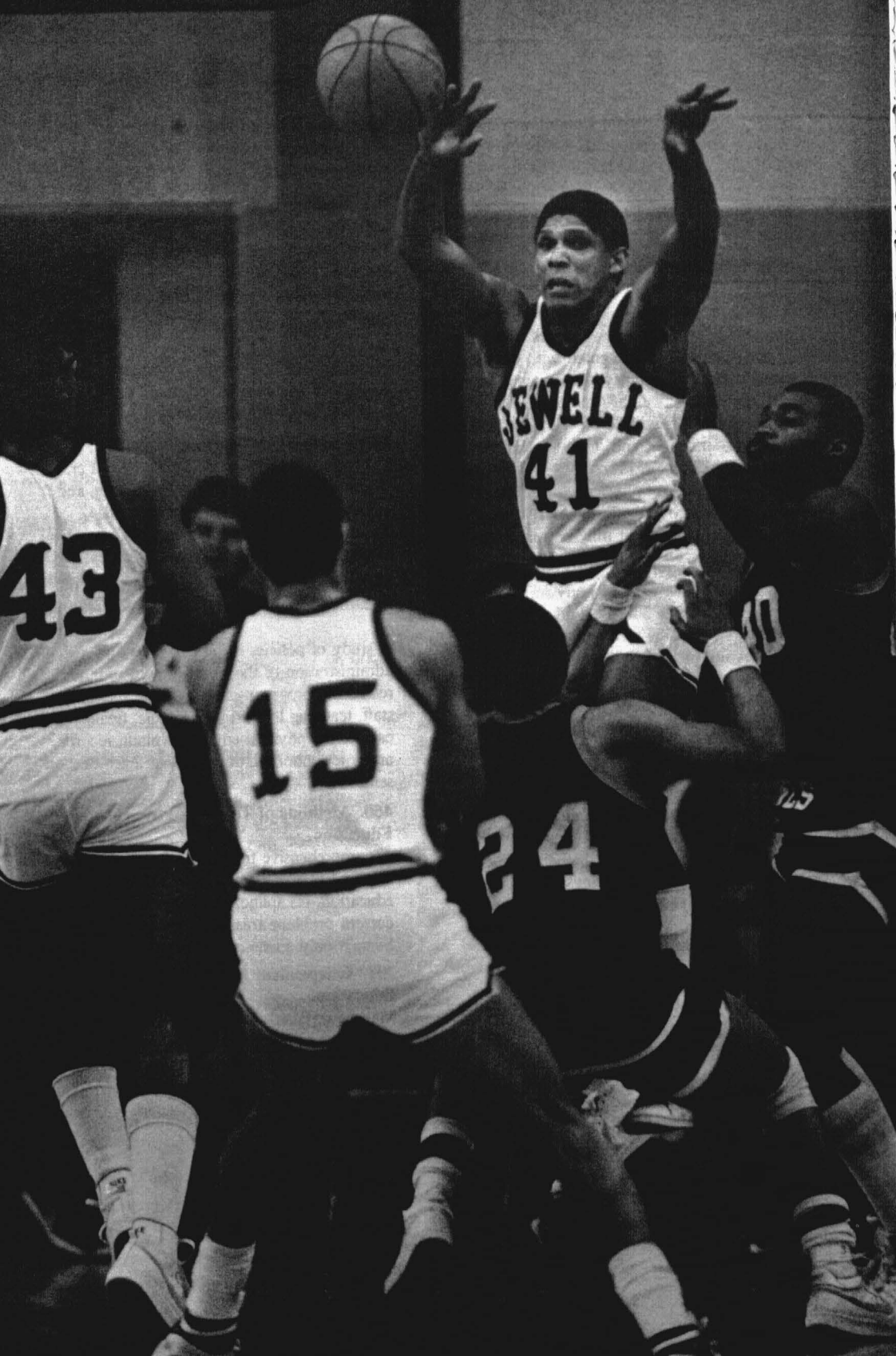
May be repeated. Designed for special activities and independent study. Activities and requirements must be planned in advance with the chairman of the department.

402A. Equipment and Facilities in Recreation. 2 cr. hrs.

402B. Research in Recreation. 2-4 cr. hrs.

402C. Field Experience in Recreation. 1-4 cr. hrs.

402D. Internship in Recreation. 6 cr. hrs.



Physics and Astronomy

Professor Geilker, chairman; Professor Philpot.

THE E.S. PILLSBURY DEPARTMENT OF PHYSICS

Major: 30 semester hours, including 15 hours of junior-senior courses and three hours of advanced laboratory. Major for secondary school teachers: 24 semester hours, including Physics 306 and either 316 or 322.

Students completing a second major in physics must complete the general education requirements for the bachelor of arts degree.

All students intending a major in physics should ascertain from the department certain additional requirements, such as a comprehensive examination and/or taking the Graduate Record Examination.

Physics major for the 3-2 plan of engineering with Columbia University, New York; Washington University, St. Louis; the University of Missouri, Columbia or Rolla: Physics 213, 214, 316, 322, 332, 443.

For those students who expect to enter an engineering school upon graduation, the pre-engineering curriculum, plus a major in physics, mathematics or chemistry (depending upon the type of engineering—electrical, mechanical, chemical) is recommended.

Course 103 is primarily for non-science majors who want an introductory course in the fundamentals and applications of physics.

Courses 111 and 112 are primarily for pre-health students and science majors (physics, chemistry, biology and mathematics) who want an introductory course in the fundamentals and applications of physics. It is recommended that 111 be taken first.

Courses 213 and 214 require calculus as a corequisite, and may constitute a beginning course for physics majors and pre-engineering students.

ASTRONOMY

107. Descriptive Astronomy. 4 cr. hrs.
An historical, non-mathematical treatment of astronomy and an examination of its con-

tribution to man's understanding of his place in the physical universe. Some required night time observing sessions.

GRAPHICS

105. Graphics I (Technical Drawing).

2 cr. hrs.

Instruction in use of instruments, lettering, geometric curves, orthographic and isometric projections; technical sketching, preparation of working drawings, detailing of machines, assembly drawings, auxiliary and oblique views. Second semester.

PHYSICS

103. Foundations of Physics. 4 cr. hrs.

An introductory course in descriptive college physics, including mechanics, properties of matter, heat, sound, light, electricity, magnetism, atomic and nuclear physics. One laboratory period per week.

111. College Physics. 4 cr. hrs.

The general principles of mechanics, waves, sound, heat and electricity, with discussions of some practical applications. Problems and laboratory work are emphasized. For science majors: mathematics, physics, chemistry, biology, pre-health. One laboratory period each week. First semester.

112. College Physics. 4 cr. hrs.

The general principles of light, optical instruments, atomic structure and nuclear physics with a discussion of some practical applications. For science majors: mathematics, physics, chemistry, biology, pre-health. One laboratory period per week. Second semester.

213. General Physics. 5 cr. hrs.

Calculus must be taken prior to or concurrently with this course. Course includes mechanics, sound and heat. Prerequisite: calculus. One laboratory period per week. First semester.

214. General Physics. 5 cr. hrs.

Includes electricity, magnetism, light and optics, and modern physics. Corequisite: calculus. Second semester. One laboratory period per week.

PHYSICS

306. Applied Electronics. 4 cr. hrs.

An introductory course emphasizing the applications of solid state devices such as diodes, thyristors, transistors, sensors, and linear and digital integrated circuits. May be continued as projects in Independent Study and Research or as PHY 406, Microcomputers. Prerequisite: consent of instructor. First semester. One laboratory period per week.

316. Atomic and Nuclear Physics. 3 cr. hrs.

A course in modern physics. Includes introduction to special relativity, x-rays and spectra, radioactivity, nuclear reactions, and other topics of importance to modern physics and chemistry. Prerequisites: PHY 214 and MAT 200. Second semester, even-numbered years.

317. Atomic and Nuclear Physics

Laboratory. 1 or 2 cr. hrs.

To follow or accompany PHY 316. First semester. Three hours laboratory work per week for each credit hour.

318. Heat and Thermodynamics. 3 cr. hrs.

Includes study of temperature, thermodynamic systems, work, first and second laws of thermodynamics and entropy. A brief introduction to statistical mechanics and kinetic theory. For students of physics, chemistry and engineering. Prerequisites: PHY 214, MAT 200. Second semester, even-numbered years.

322. Optics. 3 cr. hrs.

An advanced course in light. Includes a study of lenses, reflectors, prisms, spectrometers, rules gratings, spectra, interferometers, diffraction, polarization and electromagnetic theory of light. Prerequisites: PHY 214 and MAT 200. First semester, odd-numbered years.

323. Optics Laboratory. 1 or 2 cr. hrs.

To follow or accompany PHY 322. Three hours laboratory work per week for each credit hour.

332. Analytical Mechanics (Statics). 3 cr. hrs.

Concerned with basic concept of force systems, conditions of equilibrium, structures, distribution of forces, centroids, effects of friction, moments of inertia and the principle of virtual work. Methods of the calculus and graphical analysis, including vectorial representation, will be freely employed. Prerequisite: MAT 200. Second semester, odd-numbered years.

351H-356H. Independent Study and Research.

1 cr. hr.

A detailed study of some specific problem or experiment in physics, history of physics, reading from current literature of physics. May not be commenced by second-semester seniors. Available each semester.

406. Microcomputers: Architecture and Interfacing.

4 cr. hrs.

Provides an introduction to the electronics hardware of microcomputers. The micro-computer will be considered as a system and also its functional blocks (CPU, memory, control, and input/output) examined individually. There will be some laboratory work in interfacing. Students not requiring the interfacing may enroll for the architecture component only (2 cr. hrs., first seven weeks). Prerequisite: PHY 306. Second semester.

415. Electricity and Magnetism. 4 cr. hrs.

Electrostatics, magnetism, resistance, capacitance, inductance, electromagnetic induction, electric circuits. Maxwell's equation and field theory. Prerequisites: PHY 214 and MAT 201. First semester, even-numbered years.

416. Electronic Measurements. 1 cr. hr.

Measurement of parameters of interest in laboratory and industrial research: temperature, pressure, light, magnetic fields, linear and angular displacement. Includes introduction to data acquisition and interfacing with micro-computers. Prerequisites: PHY 306 and consent of instructor. Three laboratory hours per week.

443-444. Mechanics: Classical and Quantum.

4 cr. hrs.

An intermediate course in classical mechanics. The course will include a critical discussion of Newton's laws of motion. The points of departure for quantum mechanics and for relativistic mechanics will be indicated. Other topics will include conservative forces, the forced harmonic oscillator, complex number application to the solution of linear differential equations, Fourier Series applications, vector algebra, elements of vector analysis, integration and differentiation of vectors, motion under a central force, coupled harmonic oscillators, rotating coordinate system, LaGrange's equations, and introduction to tensors. Approximately nine weeks of the second semester will be devoted to an introduction to Quantum Mechanics. 443 offered first semester; 444—second semester.

Political Science

Professor Adams, chairman; Associate Professor Hunt.

The political science department offers three majors: political science, public administration and international relations.

Political Science Major: 28 semester hours, including one course from each of five of the six categories besides introductory courses.

POL 101, Principles of Government and Politics, and POL 102, American National Government, while not absolute prerequisites for other courses, are customarily taken in the freshman year prior to advanced study. Most courses have no firm prerequisite, but the recommended background is indicated.

The following courses may be taken for credit toward a political science major, up to a maximum of eight hours: BUS 301, ECO 418, SOC 351. Political philosophy courses may count toward the Humanities requirement, as well as toward the writing requirement.

Certain four-hour courses may be divided into parts meeting a portion of the semester for one or two hours credit. Such divisions are indicated by the letters *A, B, etc.* A senior comprehensive oral examination is required unless the student is doing an Honors Project.

Public Administration Major: 36 semester hours, including (1) one introductory political science course; (2) at least one course in political philosophy (POL 211 or POL 311); (3) all three courses in Public Administration (POL 301, 302, and 303) plus ECO 418; (4) either BUS 301 or SOC 351 and (5) a minimum six-hour summer internship in a government agency at the federal, state, or local levels (POL 471).

It should be noted that Economics 418, Public Finance, may have prerequisites (usually Economics 201), and care must be taken in scheduling to include such prerequisite(s) at an early date. This is especially critical since Public Finance is not offered every year.

Internships in public administration are customarily taken during summers between the junior and senior years, and they should not be undertaken earlier than the end of the

sophomore year. Before undertaking an internship, students are strongly advised to take POL 301 and POL 303.

A double major in political science and public administration is permitted with the approval of the department chairman.

International Relations Major: An interdisciplinary major designed to acquaint students with basic elements of economic, political, and social relationships among nations. This major is strongly supported by the excellent overseas programs of William Jewell College. Twenty-eight hours are required for the major, as well as at least three semesters of a single foreign language (or proficiency at that level). A semester or year in an overseas study program is also strongly recommended.

Required courses are Political Science 322, International Politics and Organization; Economics 404, Introduction to International Economics; Sociology 334/335, Cultural Anthropology; and Political Science 452, Senior Seminar.

Remaining courses for the major may be selected from the following, or from similar courses judged appropriate by an International Relations Program Committee: Political Science 320, Comparative Politics: Major European Governments; Political Science 331, Comparative Politics: Soviet Civilization; Political Science 311, Modern and Contemporary Political Thought; Communication 309, American Public Address; History 316-317, Europe in the Age of Absolutism and Enlightenment; History 318, The Formation of Modern Europe; History 320-321, The Communist Nations in Europe; History 322-323, History of Latin America; History 324, The Far East; Geography 304, World Geography; Religion 271, Religions of the World. Courses taken at campuses abroad will often be suitable for this major, at the discretion of the International Relations Program Committee.

INTRODUCTORY COURSES

101. Principles of Government and Politics. 4 cr. hrs.

A. Introduction to government and politics (first seven weeks, 2 cr. hrs.). Examines the

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nature of politics; considers such terms as Liberty, Equality, Justice; emphasizes today's "isms" such as liberalism, conservatism, Communism, socialism, fascism.

B. American governmental institutions and political practices (second seven weeks, 2 cr. hrs.). Examines American governmental institutions and political practices and compares them with other countries', promoting an understanding of the government of the United States in its global setting. First semester.

102. American National Government.

4 cr. hrs.

A. The Constitution (first seven weeks, 2 cr. hrs.). Formation, development and structure of the American federal system; expansion of federal and state functions; civil liberties; status and responsibilities of the citizen.

B. The Political System (second seven weeks, 2 cr. hrs.). Parties and interest groups in federal political processes; structure and functions of executive, legislative, judicial, and administrative branches. Second semester.

AMERICAN POLITICS

200A. State Government.

2 cr. hrs.

A study of state politics in the context of the federal system. Emphasis on the tension between national and state governments on such policy issues as civil rights, revenue sharing, urban politics, and related topics. Recommended background: POL 102. First seven weeks, second semester.

200B. Urban and Metropolitan Politics.

2 cr. hrs.

Problems of urban and metropolitan government. The nature of political conflict in the urban community. Some attention to other units of government at the local level. Recommended background: POL 102. Second seven weeks, second semester.

232. Politics, Parties and Interest Groups.

4 cr. hrs.

A study of the development of the American party system, party organization, the electoral process, and the role of parties and interest groups in the formation of public policy. Stresses three models: popular government,

pluralism, elitism. Recommended background: POL 102. Second semester, odd years.

233. American Democracy and Campaign Technology.

4 cr. hrs.

A study of trends in political campaign techniques and their impact on American democracy as political parties decline. Identifying the actors on the political scene—personal organizations, interest groups, Political Action Committees, campaign consultants; and techniques employed in planning and carrying out a campaign—feasibility study, campaign organization, finance, polling, targeting, voter contact, control mechanisms. Also examines government regulation of campaigns, as well as the options open to both low and high budget efforts in both candidate and issue campaigns. Recommended background: POL 102. First semester, even years.

POLITICAL PHILOSOPHY

211. American Political Thought.

4 cr. hrs.

A. Before 1865 (first seven weeks, 2 cr. hrs.). Survey of the main currents of American political thought, including such early English writers as Locke; the revolutionary period and the Federalist Papers; Jacksonian democracy; slavery.

B. After 1865 (second seven weeks, 2 cr. hrs.). The Populist and Progressive movements; the New Deal; some consideration of contemporary trends. Recommended background: POL 102. First semester, even years.

311. History of Political Thought.

4 cr. hrs.

A. Ancient and Medieval Political Thought (first seven weeks, 2 cr. hrs.). Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli. Issues and ideas considered include justice, ruling as an art, the forms of state, authority.

B. Modern Political Thought (second seven weeks, 2 cr. hrs.). Hobbes, Locke, Montesquieu, Rousseau, Bentham, Mill, Spencer, Marx. Issues and ideas considered include power, the social contract, individual liberty, 19th century liberalism, the development of popular democracy, socialism, communism, fascism, the welfare state. Recommended background: POL 101. Second semester, even years.

AMERICAN CONSTITUTIONAL LAW

221. The American Constitution. 4 cr. hrs.

A. Constitutional Structure (first seven weeks, 2 cr. hrs.). Role of the judiciary in the evolution of constitutional government in the United States. Roots of the Common Law; powers of the President, Congress, and the Courts; federalism.

B. Property Rights (second seven weeks, 2 cr. hrs.). Rise and fall of emphasis on property rights as reflected in judicial attitudes and interpretation of the contract, commerce, due process, and other important clauses of the Constitution. Recommended background: POL 102. First semester, odd years.

222. Civil Rights and Liberties. 4 cr. hrs.

A. Equality (first five weeks, 1 cr. hr.). The 14th Amendment and "nationalization" of the Bill of Rights, equal protection and segregation, public accommodations, reapportionment, housing, and voting rights.

B. First Amendment (middle five weeks, 1 cr. hr.). The First Amendment and freedom of speech, press, religion, assembly, petition, and association; problems of loyalty and security.

C. Rights in criminal proceedings (last five weeks, 1 cr. hr.). All parts of the course involve study of leading justices, cases, and judicial doctrines. Recommended background: POL 102. Second semester, even years.

COMPARATIVE POLITICS

320. Government and Politics of Western Europe. 4 cr. hrs.

Great Britain and France provide the focus for the study of change and variation in the parliamentary systems of Western Europe. For the purpose of comparison, some attention is given to political behavior in former European colonies and protectorates ("Third World" countries). Recommended background: POL 101. Second semester, even years.

331. Comparative Politics II: Soviet Civilization. 4 cr. hrs.

A. Roots of Soviet Civilization (first seven weeks, 2 cr. hrs.). Classical Marxism; international socialism before 1917; imperial Russia; the Revolution. Approaches to the study of Communist systems—problems of analysis.

B. Contemporary Communism (second seven weeks, 2 cr. hrs.). Development and operation of contemporary institutions in the USSR with comparison to selected other Communist systems; the nature of totalitarianism; the international Communist movement. Some attention to foreign policy, literature and science.

An intensive study of basic features of Communist systems. Recommended background: POL 101. First semester, odd years.

INTERNATIONAL POLITICS

322. International Politics and Organization. 4 cr. hrs.

Fundamentals of international relations; nature of power politics; dynamics of state existence; balance of power; international morality; international law; regionalism; international organization; idea of a world state; diplomacy; the search for peace and security. Recommended background: POL 101. First semester, even years.

PUBLIC ADMINISTRATION

301. Introduction to Public Administration. 4 cr. hrs.

Examines the public administrative process, the nature of bureaucracy, and the job of the public manager. Leadership, decision making and organization models are also studied. Certain functional areas are explored such as public personnel management, budgeting and accounting, and government regulation. Offered first semester, odd years.

302. Public Policy Analysis. 4 cr. hrs.

Examines various alternative approaches to decision making and the role of agency clientele as well as the relationship of policy development to administration. In-depth treatment is given to one or more substantive areas, such as energy, the environment, health care, transportation, etc. Offered first semester, even years.

303. Organization Theory. 4 cr. hrs.

Analyzes the dynamics of social interaction within an organizational context, with emphasis on decision theory and the problem of authority. Various theories of authority and organization are examined, as are theories about incentives and motivation in the context

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of organizational sanctions and social controls.
Offered second semester, odd years.

DIRECTED READINGS, SEMINARS, INTERNSHIPS, INDEPENDENT STUDY

431, 432. Research Seminars. 1-4 cr. hrs.
Individual or group research on selected topics, determined by student interests. Results of research and reading to be presented orally, or in the form of a short thesis, or both. Personal conferences and/or periodic group meetings. It is possible by special arrangement to pursue a single research topic through two semesters.

Sample activities, besides standard research papers, include: introduction to legal research, in conjunction with or subsequent to PS 221-222; public opinion surveys, involving use of computerized data. Prerequisite: 12 hours of political science and/or consent of instructor. Hours to be arranged.

452. Senior Seminar in International Relations. 4 cr. hrs.
A seminar for international relations majors which provides for research and discussion on

selected topics of international importance.
Offered first semester, odd years.

471. Public Administration Internship. 4-6 cr. hrs.

An internship in a federal, state, or local governmental agency or in a "third-sector" (private, non-profit) agency during the summer term for variable credit. Customarily taken during the summer between the junior and senior years, although may be taken any time after the sophomore year.

472. Political Science Internship. 4-6 cr. hrs.
An internship in the political arena at the federal, state or local level. This experience could be with a congressman or senator at the national level or with a state legislator, a state legislative committee, an interest group or a 'third sector' (private, non-profit) organization. It could be work in a political campaign. Internship will usually be taken during the summer between the junior and senior years, although it may be taken any time after the sophomore year. Prerequisites: statistics and some computer science helpful.

Psychology

*Associate Professor Troutwine, chairman;
Assistant Professors Carroll, Owens.*

The psychology department offers a wide variety of traditional psychology courses. The curriculum spans the ancient philosophical origins of psychology to the classical theories and applications of today.

The primary mission of this curriculum is to enhance the students' knowledge of the understanding, prediction and control of man's behavior. Individual courses are structured so that each relates its unique material to this mission.

Introductory courses lay the groundwork for an understanding and overview of psychology's major areas. Higher numbered courses typically delve into one or two key areas introduced in the entry course. The Senior Seminar, a capstone course, returns to a unified and integrated perspective.

A significant number of the majors continue their education in graduate school, working for a master's or doctorate. To this end, the department strives to prepare majors for the rigors of graduate study.

The psychology curriculum strives to balance theoretical and practical dimensions by providing the opportunity for field experiences through Winterim or Independent Studies. Several "elective tracks" are also suggested as a guide for the student in preparation for a specific area of psychological work.

The psychology major requires a minimum of 32 hours of course work, 24 of which comprise the "curricular core." Students may personalize the major by selecting eight or more hours of course work from any of the alternative elective tracks. A maximum of 40 hours of psychology courses may be applied toward degree requirements.

Students who earn a B.S. degree in conjunction with their first major may earn a second major in psychology by fulfilling the General Education requirements for the B.S. degree and all departmental requirements.

Basic Psychology (PSY 211) is a prerequisite for all other courses in the department.

CURRICULAR CORE

(Every major must take these classes.)

Psychology 211. Basic Psychology (normally taken freshman or sophomore year).

Mathematics 216. Statistics (normally taken second semester freshman or sophomore year).

Psychology 320. Experimental Psychology (normally taken first semester of sophomore or junior year). Prerequisites: Psychology 211, Basic Psychology; Mathematics 216, Statistics.

Psychology 317. Personality (normally taken second semester junior year). Prerequisites: Psychology 211, Basic Psychology.

Psychology 322. History and Systems (normally taken first semester senior year). Prerequisites: Psychology 211, Basic Psychology; Mathematics 216, Statistics; Psychology 320, Experimental Psychology; Psychology 317, Personality.

Psychology 422. Senior Seminar (taken second semester of senior year). Prerequisites: Psychology 211, Basic Psychology; Mathematics 216, Statistics; Psychology 320, Experimental Psychology; Psychology 317, Personality; Psychology 322, History and Systems.

ELECTIVE TRACKS

Hierarchies of suggested elective courses for students interested in specific areas of psychology are listed below. In each case, classes are arranged in the approximate order of their importance for that field of psychological study.

- A. Clinical or Social
 1. abnormal-clinical
 2. social-development-behavior modification
 3. tests and measurements
 4. personal adjustment
 5. physiological
- B. Experimental-Research
 1. experimental II-learning
 2. physiological-tests and measurements

PSYCHOLOGY

C. Business

1. industrial
2. social-learning
3. developmental

97. Psychology of Study Skills. 1 cr. hr.

A learning skills program designed for the improvement of reading and classroom learning.

98. Effective Reading Skills. 1 cr. hr.

A reading program designed for improving college-level reading rate, comprehension and vocabulary. Improvement in vocabulary is based on a thorough study of etymology.

99. Career Explorations. 1 cr. hr.

A course for freshmen and sophomores designed to build confidence, insight and skills in career decision making. The course incorporates a high degree of self-assessment. Career Explorations also exposes students to the world of work and methods for career research.

211. Basic Psychology. 4 cr. hrs.

An introduction to the major areas of the field. Psychology is viewed as a biosocial science of behavior, and emphasis is placed on the scientific basis of our current understanding of behavior. Prerequisite to all other courses in the department.

214. Personal Adjustment. 2 cr. hrs.

The intent of the course is to gain a greater understanding of how life challenges and threatens our effective functioning and the options we have to manage and respond to them without losing our sense of self worth and personal control. (Meets seven weeks.)

216. Elementary Statistics for Social Sciences. 4 cr. hrs.

See course description for Mathematics 216.

NOTE: This is the only class for which PSY 211 is not a prerequisite.

234. Psychology and Education of the Exceptional Child. 2 cr. hrs.

See course description for Education 234.

303. Abnormal Psychology. 4 cr. hrs.

A descriptive and explanatory study of the major personality and behavior disorders of both childhood and adulthood, including psy-

chogenic, psychosomatic, and organic problems. Attention to preventive measures, DSM diagnostic methods, and therapeutic procedures. First semester.

304. Social Psychology. 4 cr. hrs.

A study of the influence of other people and of society collectively on selected aspects of an individual's behavior and personality, with special attention to the dynamics of group behavior. Second semester.

306. Developmental Psychology: Childhood and Adolescence. 4 cr. hrs.

Childhood and adolescence are studied to understand how and why people change over time. Childhood typically spans from conception to age 12. The second half of the semester is devoted to adolescence. It is the professor's discretion to either focus entirely on ages 12-21 or to present the remainder of the life span, from age 12 to death. A broad-based approach is taken in order to understand development. Issues include the biological, social and behavioral influences on development. Either childhood or adolescence may be studied for one-half the semester for two hours credit.

308-309. Independent Studies. (Junior and below.) 1-4 cr. hrs.

312. Physiological Psychology. 4 cr. hrs.

A study of the biological foundations of behavior: the neural and glandular structures and functions, the sensory and motor equipment, and their significance for a psychological understanding of behavior. Psychopharmacology is discussed as it relates to drug effects on the neuron. In the laboratory, emphasis is placed upon the brain and the autonomic nervous system in their relationship to behavior. Research and laboratory techniques are introduced. Laboratory. First semester, every other year.

317. Personality. 4 cr. hrs.

The course investigates major contemporary theories of personality and its formation. Different viewpoints about the nature and functioning of personality are compared and evaluated. The concept of personality is related to such major issues concerning the nature of man as determinism vs. free will, rationality, hedonism and unconscious mechanisms. Second semester.

318. Tests and Measurements. 4 cr. hrs.

A survey of the major principles, concepts and instruments employed in psychological evaluation, diagnosis and counseling, with special attention to reliability, validity, and construction of tests, and interpretation of results. Second semester, odd numbered years.

319. Introduction to the Principles of Behavior Modification. 2 cr. hrs.

An introduction to theory, research and practice in behavior modification. It is intended that this course will function not only to familiarize the student with the field, but that it will assist in further reading and research. While the emphasis is "academic," the clinical and applied considerations will be an integral part of the course. Second semester, odd years.

320. Experimental Psychology I. 4 cr. hrs.

An introduction to the experimental methods and procedures used in psychological research. Students participate in experiments, collecting data, analyzing data and writing up results in APA style. Lecture and laboratory. Required of majors. Normally taken first semester of junior year. Special prerequisite: MAT 216, Statistics.

321. Experimental Psychology II. 4 cr. hrs.

An in-depth look at research design, sophisticated data analysis techniques and survey/sampling procedures is offered. Students propose a unique research hypothesis, design an experiment, collect data, analyze data and report findings in APA style. Special prerequisite: MAT 216, Statistics; PSY 320, Experimental Psychology I. Offered upon demand.

322. History and Systems. 4 cr. hrs.

The rise and growth of modern psychology in its contemporary expressions. Attention is given to origins, major developments, and present trends in psychological thought. Required of majors. Normally taken first semester senior year.

Special prerequisites: MAT 216, Statistics; PSY 320, Experimental Psychology I; PSY 317, Personality.

400. Clinical Psychology. 4 cr. hrs.

Exploration of clinical psychology as a profession with inquiry into professional relationships and organizations. Emphasis is also placed upon clinical diagnosis and treatment of behavioral disorders. Second semester.

408-409. Independent Projects for Seniors.

1-4 cr. hrs.

411. Contemporary Issues in Psychology.

4 cr. hrs.

This course is designed as a seminar approach for current topics of importance to psychologists. The content of the course is determined by student interests and areas of expertise of the faculty. Typically, students prepare cases or papers, and review current readings and books relevant to the course. Two credit hour classes run half the semester, four credit hour courses last the entire semester. Offerings are based on student demand and faculty availability.

421. Seminar.

1-4 cr. hrs.

Topics to be announced, prior to registration, in special interest areas not justifying a regularly scheduled course. Enrollment by permission of department only.

422. Senior Seminar.

4 cr. hrs.

This class is designed to be an integrative experience for the entire curriculum. Topics which are examined enable the student to see connecting links among the various areas of psychological study. The course also uses an interdisciplinary approach to reveal the relationship of psychology to other academic disciplines. Required of all majors. Taken second semester of senior year. Special prerequisites: MAT 216, Statistics; PSY 320, Experimental Psychology; PSY 317, Personality; PSY 322, History and Systems.



Religion

Associate Professor Duke, chairman; Assistant Professor Chance; Instructors Cain, Horne.

W.D. JOHNSON DEPARTMENT OF RELIGION

One of the following numbered courses will fulfill the college requirement in religion: 115, 116, 117. Courses numbered 215 and above may be elected as partial fulfillment of the Humanities general requirement for graduation. Juniors and seniors must take a 200 or above numbered course and may not take a 100 numbered course without special permission of the department chairman unless the course is taken specifically to fulfill the college requirement in religion.

A major in religion requires 24 hours other than the course taken to meet the general college requirement. At least one course must be taken from each of the following areas: 1) Old Testament (115, 222, 326); 2) New Testament (116, 232, 233, 305, 332); and 3) Theology-Ethics (117, 251, 307, 351, 454), History (244, 325, 336, 344), or Phenomenology (215, 271). Students majoring in religion will be permitted to count one 100-level course toward the needed 24 hours. At least three courses must be 300-400 level courses, and three courses must be taken at William Jewell. For a second major, one must complete all general education requirements for the B.A. degree.

Church-Related Vocations Practicum. The religion department at William Jewell offers a vocational training program through the H.I. Hester Center for Christian Ministry for those students who have committed their lives to a church-related vocation. All students are invited to take the CRV courses (numbered 203, 205), realizing that these courses do not count toward the religion major but do count toward general electives for graduation from the college.

Students who receive the CRV scholarship are expected to meet the following requirements:

1. Maintain a 2.0 overall grade point average.
2. Take one course each year from the department of religion (excluding 203-205j).
3. Successfully complete REL 203 by the end of the junior year.

4. Successfully complete any two church-related vocation electives (in addition to RE 203).

5. Music majors may substitute courses with the approval of the music faculty and the director of the H.I. Hester Center for Christian Ministry.

6. Participate in one of the following William Jewell College organizations: Christian Student Ministries, Theta Kappa Epsilon, or Church Music Conference.

7. Participate in the monthly CRV meetings and revival teams.

115. Religion and Literature of Ancient Israel.

4 cr. hrs.

An overview of the Old Testament as the sacred literature of ancient Israel. The study is divided into four major units of emphasis: Pentateuch, Cult, Prophets, and Wisdom. Various literary approaches are introduced and discussed as means of illuminating the historical and theological dimensions of the text.

116. Origins of Christianity.

4 cr. hrs.

An introductory survey of the rise of Christianity which explores such issues as: the origin of the New Testament, the Jewish and Greco-Roman background to early Christianity, the teachings of Jesus, primitive Christian history, the life and teachings of Paul, the church's relationship with the larger world and the birth of the church as an "institution."

117. Biblical Ethics.

4 cr. hrs.

A study of the moral perspectives represented in the Bible with attention to that which unifies the biblical traditions. Several significant ethical issues are examined in light of the biblical heritage.

203. Ministry Internship.

2 cr. hrs.

This course is designed to give students practical experience in church-related vocations and provide support and encouragement for students in these ministry settings. Prerequisite: one four-hour core curriculum religion course. The course is required for all students receiving the CRV scholarship and may be repeated for a second semester. Prerequisite: successful completion of a core curriculum religion course.

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204. Campus Ministry Internship. ½ cr. hr.
This course is designed to give students practical experience in ministry to their peers within a structure of support and teaching in the field of pastoral care. Prerequisite: permission of the instructor. May be repeated one time.

205. Issues in Ministry. 2 cr. hrs.
This course is designed to acquaint students with issues and skills related to ministry in the contemporary church. These issues will be studied from both practical and theoretical viewpoints.

205A: World Missions. A study of the theology and practice in the Christian world mission with emphasis on the success and failures of the Christian missionary when confronting various world cultures and religions. Elective credit only.

205B: Missions in the U.S. A study of missions in the U.S. with special emphasis on the work of the Home Mission Board and the Southern Baptist Convention. Elective credit only.

205C: Evangelism. A study of the nature and practice of evangelism with attention given to the biblical, theological and historical roots of evangelism. Elective credit only.

205D: Women in Ministry. A study of the biblical and contemporary viewpoints concerning the role of women in the church. Elective credit only.

205E: Bivocational Ministries. A study of the problems and opportunities unique to the minister who carries professional responsibilities outside his parish program. Elective credit only.

205F: Church Administration. A study of the management principles, styles, and the minister's leadership roles in organizing the church for effective ministry. Elective credit only.

205G: Pastoral Care. A study of the foundations and dynamics of pastoral care in the personal and corporate crises faced by individual members of society. Elective credit only.

205H: Education and Youth Ministries. A study of the educational tasks and patterns of organization in contemporary churches with special emphasis on the religious thinking and

development theories for youth leaders. Elective credit only.

205J: Preaching and Worship Leadership. Since worship and proclamation are hallmarks of the Christian faith, this course is provided to acquaint students with the skills necessary for effective leadership in these areas. Public prayer, scripture reading, devotions and sermons will be covered. Organizing and implementing worship experiences will be highlighted with opportunities provided for practical implementations of skills learned. Elective credit only. Prerequisites: beginning religion course and COM 100.

215. What Is Religion? 4 cr. hrs.
A cross-cultural investigation into the nature of religion and its function within the human community. Case studies from a variety of religious traditions and cultures will be used to explore the common characteristics of religions and the variety of World Views held within religious communities. The course will conclude by focusing on how the major religious traditions deal with a fundamental religious question, e.g., suffering, relationships between faith and morality, civil religion. Alternate years.

222. Biblical Archaeology. 4 cr. hrs.
A historical study of the theoretical and methodological dimensions of Palestinian archeology in the late 19th and 20th centuries. Special focus is achieved in reference to archaeology's impact on biblical studies. Alternate years.

232. The Historical Jesus: Search and Discoveries. 4 cr. hrs.
This course examines both the attempts of modern biblical scholars to find the historical person of Jesus, and the rich variety of interpretations of Jesus offered by modern interpreters who believe that they have found him. The limitations of such a search are explored, along with various methodologies used in such a quest. Students will have ample opportunity to explore the gospels for themselves and offer their own interpretation(s) of the historical Jesus. Prerequisite: fulfillment of religion requirement or permission of the instructor. Alternate years.

233. Paul and His World. 4 cr. hrs.

The life and teachings of Paul with special attention to the social and religious context of his ministry and theology. The chronology of Paul, his missionary travels and his major theological ideas will all be explored against the background of the first century hellenistic world. Prerequisite: fulfillment of religion requirement or permission of the instructor. Alternate years.

244. American Christianity. 4 cr. hrs.

The story of America's developing religious situation. Offers an overview of how the various denominations began in this country with their development. An emphasis will be placed on the Baptist denomination in America. Alternate years.

251. Christian Doctrine. 4 cr. hrs.

Introduction to Christian doctrine, the variety of interpretations given to these doctrines, and the methods and vocabulary of Christian theology. Emphasis is given to the practical meaning of Christian doctrine for Christianity in the late 20th century. Alternate years.

271. The Religions of the World. 4 cr. hrs.

A survey of the major religions of the world, past and present. In addition to examining the historical development of these religions, the course will explore how these religions function in the societies of which they are a part. Alternate years.

305. Exegesis in the New Testament.

4 cr. hrs.

305A. Luke-Acts.

305B. John.

305C. I Corinthians.

An in-depth study and interpretation of a selected New Testament document based on the English text. Particular attention will be paid to the insights the documents give us for understanding the historical and social setting of primitive Christianity, as well as the theological concerns of the primitive Christians. Prerequisite: fulfillment of religion requirement or permission of the instructor. Offered on demand.

307. Christianity and Contemporary Issues.

4 cr. hrs.

An in-depth study of a few current ethical and theological issues facing Christianity. Recent

offerings have included Jewish-Christian dialogue, the women's movement and the Church, nuclear arms race, ecological problems, religious language, Christianity and political revolutions, and biomedical issues. Summer only.

325. History of the Baptists. 2 cr. hrs.

A study of Baptist history noting particularly the development in England and America. Doctrine, polity, organization and denominational crises will be studied. Prerequisite: ENG 100. Recommended that the student already have taken either a beginning history course (101 or 102) or a beginning religion course (100-200 level). Alternate years.

326. Israel's Legacy of Wisdom. 4 cr. hrs.

A more detailed analysis of the phenomenon of "Wisdom" in Israel. In addition to the canonical Wisdom literature (Job, Proverbs, Ecclesiastes), the course shall consider two non-canonical Wisdom texts (Jesus ben Sirach and The Wisdom of Solomon). Prerequisite: fulfillment of religion requirement. Alternate years.

330. Classical Christian Thought. 4 cr. hrs.

A study of the classics of Christian thought which have influenced the growth and development of Christian theology. Reading in primary source material is emphasized.

332. Issues in Early Christianity. 4 cr. hrs.

Selected significant issues which influenced and shaped the evolution of Christianity in the first two centuries will be explored. Examples of such issues are christology, eschatology, apostolic and ecclesiastical authority and the church's relationships with the larger Greco-Roman world. Prerequisite: fulfillment of religion requirement or permission of the instructor. Alternate years.

336. Religious Revolution and Change in Christian History.

4 cr. hrs.

A study of Christian history from apostolic times to 451 A.D. Major consideration will be given to writings of Augustine. Offered on demand.

344. The Church and Its Hymnody.

4 cr. hrs.

See course description for Music 344.

351. Theology and Human Creativity.

4 cr. hrs.

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A study of and participation in the dialogue between Christian theology and creative artistic expression, especially literature, drama, and visual art. Both theological and artistic works will be studied in order to gain a better understanding of Christian faith in its cultural contexts and to encourage creative theological exploration. Alternate years.

454. Theological Problems. 4 cr. hrs.
This course will study in depth one significant theological problem such as authority, the theodicy question, the doctrine of the

Trinity, church and society, the nature of faith, or the Incarnation. Students will be exposed to a variety of perspectives on the selected issues. Alternate years.

455. Independent Studies. 1-4 cr. hrs.
Independent studies in a selected area according to the interest and ability of the student. May be accomplished in an off-campus project or honors program with prior approval of the department. A formal written summary of the project findings will be submitted.



Sociology

Professor Whaley, chairman; Professor Chasteen.

Major: 24 semester hours, including courses 211, 351, and 412.

211. Introduction to Sociology. 4 cr. hrs.

The introduction to the study of sociology includes an examination of what sociologists know and how they know it. The concepts and methods of sociology are examined. Culture, community, the family and other basic institutions, research methods, are among the topics covered.

218. Social Work. 2 cr. hrs.

A survey of the nature and philosophy of social work, its historical background, and general theory of social work and its application to individual and community problems. Designed to acquaint the student with the social work profession and its function in modern society. Alternate years.

270. The Sociology of Sport and Leisure.

2 cr. hrs.

A study of sport sociologically, especially in relation to social organization, culture, socialization deviance, group enrichment, minority groups, demography and the mass media. On demand.

301-302. Seminars.

1-4 cr. hrs.

Special interest areas not included in the regular sociology offerings. To be announced.

304. Social Psychology.

4 cr. hrs.

See course description for Psychology 304.

315. Social Gerontology.

2 or 4 cr. hrs.

An examination of the effect of aging upon the social structure. Attention is given to the changes in the economic, political, religious, family and medical systems resulting from the increase in life expectancy. Alternate years.

322. Criminology.

4 cr. hrs.

A study of the nature, causes and consequences of crime and delinquency; an analysis of the judicial process; an evaluation of various methods of treatment and prevention of crime; a wide variety of field work opportunities. Sophomore standing or consent of instructor. Second semester.

326. Marriage and the Family. 4 cr. hrs.

A cross-cultural study of family structure and functions; significant social characteristics of the American family; changing family roles; family organization, disorganization and reorganization. Junior standing or consent of instructor. Second semester.

334. Cultural Anthropology I: Introduction to Ethnography. 2 cr. hrs.

Through the reading of ethnographies, students are introduced to the principles of cultural anthropology and to the mechanics of three cultures in widely separated parts of the world. Field work in the various cultural communities of Kansas City is an important part of the course. Second semester.

335. Cultural Anthropology II: The Anthropology of Urban Ethnic Communities.

2 cr. hrs.

Primarily a field work course, this class seeks to immerse the student as fully as possible in the daily life of a Kansas City ethnic community, the purpose being to learn about the community's family system, their religious values, their food, music, literature, history, holidays, and general culture. Second semester.

339. Race and Ethnic Relations I:

Introduction to Minority Groups. 2 cr. hrs.

An intensive and in-depth examination of American race relations with special attention to the dynamics of racism, prejudice and discrimination. Students will spend an average of five hours per week in the racial and ethnic communities of Kansas City. First semester.

340. Race and Ethnic Relations II: The Sociology of Black, Indian and Mexican-Americans.

2 cr. hrs.

The life and times of well-known leaders of America's three largest minorities will be closely examined through biographies, census data and other relevant materials. Students will primarily be responsible for learning about one leader. Students will spend an average of five hours per week in the Kansas City community represented by the historical figure about whom they are learning. First semester.

SOCIOLOGY

351. Methods of Social Research. 4 cr. hrs.

Required of all sociology majors, open to other interested students. Topics include: theory of scientific research; research design; survey research techniques—sampling, instrument design, pretesting, interviewing, ethics; data manipulation, data processing, statistical techniques for data analysis, data display; report writing and critique. Prerequisites: 12 hours in Social Sciences (including SOC 211) and MAT 216 (statistics) are strongly recommended. First semester.

412. Advanced Sociology. 4 cr. hrs.

An historical and analytical study of major contributions of social thought, including the origin and development of early social thought, contributions of pioneers in the field of sociology, major types of sociology theory, contemporary social theory. Prerequisite: SOC 211. First semester.

427-428. Readings in Sociology. 1-2 cr. hrs.

Readings are assigned from the works of prominent sociologists. Individual reports are arranged. For seniors.

431-432. Research Seminar. 1-4 cr. hrs.

An intensive study of special areas of

sociological theory and research. Each student is expected to engage in research under the supervision of the department. Prerequisite: SOC 351. Corequisite: MAT 216, Statistics, or equivalent, or consent of instructor.

471-472. Internship. 4-8 cr. hrs.

A one-half to one semester experience with a governmental or private agency, involving practical use of sociological skills. May be combined with internship requirements for other majors (such as public administration).

The student assumes responsibility for a half-time to full-time experience, under the direction of a cooperating administrator and a faculty supervisor. The time, place and responsibilities are determined on an individual basis.

Formal application must be made to the department by the seventh week of the semester prior to beginning the internship. If credit is sought in a department, approval of the internship must be secured from that department prior to application to the sociology department.

Faculty of Instruction, 1986-87

Date after name indicates year of first appointment.

Department of Art

David Busch Johnson, 1970, *Professor of art, and chairman*. BA, 1955, Wheaton College; BAE, 1960, School of Art Institute of Chicago; MS, 1967, Illinois Institute of Technology (Institute of Design); MFA, 1974, University of Kansas.

Department of Biology

Judith A. Dilts, 1975, *Professor of biology, and chairman*. AB, 1968, MA, 1975, PhD, 1976, Indiana University; further study, University of South Dakota.

Daniel L. Mark, 1980, *Associate professor of biology*. BA, 1968, MA, 1970, Drake University; PhD, 1974, University of Illinois.

Charles F.J. Newlon, 1956, *Associate professor of biology*. AB, 1956, William Jewell College; MA, 1962, University of Missouri-Columbia; further study, University of Missouri, University of Puerto Rico, University of Missouri-Kansas City, Kansas City Museum of Science and History, Michigan Technological University.

Burdette L. Wagenknecht, 1968, *Professor of biology*. BA, 1948, MS, 1954, University of Iowa; PhD, 1958, University of Kansas; further study, Syracuse University, Arizona State University, University of Puerto Rico, Oklahoma State University, Harvard University.

Department of Business Administration and Economics

Linda Bell, 1985, *Instructor in accounting*. BS, 1979, Fort Hays State University; MBA, 1984, University of Missouri-Columbia; CPA, Missouri, 1983.

Michael T. Cook, 1978, *Associate professor of economics*. BA, 1969, MA, 1973, University of Chicago; PhD, 1983, Vanderbilt University.

Kimberly H. Harris, 1986, *Instructor in business administration*. BA, 1975, MBA, JD, 1978, University of Kansas.

Jean Hawkins, 1976, *Professor of accounting*. BS, 1968, MA, 1970, Central Missouri State University; CPA (Missouri), 1974.

Elizabeth R. Hoyt, 1981, *Assistant professor of business administration*. BS, 1975, Northwestern University; MBA, 1979, University of Wisconsin.

Lowell R. Jacobsen, Jr., 1981, *Assistant professor of economics*. BA, 1979, Buena Vista College; MIM, 1980, American Graduate School of International Management; PhD, 1986, University of Edinburgh-Scotland; further study, Oxford Centre for Management Studies, Oxford University; The Russian School, Middlebury College.

Otis E. Miller, 1978, *Professor of economics*. BS, 1952, PhD, 1962, University of Missouri-Columbia.

Jerrold L. Stark, 1984, *Associate professor of business administration and economics, and chairman*. BS, 1956, MA, 1957, University of Nebraska; PhD, 1973, University of Missouri-Columbia.

Department of Chemistry

Marvin P. Dixon, 1965, *Professor of chemistry*. AB, 1960, William Jewell College; MS, 1963, PhD, 1965, University of Illinois.

Edwin H. Lane, 1980, *Associate professor of chemistry, and chairman*. BS, 1972, PhD, 1977, University of Oklahoma; further study, University of Oklahoma.

Robert M. Moore, 1986, *Instructor in Chemistry*. BA, 1980, University of Northern Iowa; MS, 1983, PhD, 1987, Iowa State University.

Department of Communication

Kim Bradford Harris, 1979, *Associate professor of communication*. BA, 1968, Carson-Newman College; MS, 1970, PhD, 1975, Southern Illinois University; further study, University of Missouri-Kansas City.

COLLEGE PERSONNEL

Lois Anne Harris, 1979, *Associate professor of communication*. AB, 1968, Carson-Newman College; MS, 1970, PhD, 1974, Southern Illinois University; further study, University of Kansas.

Gina E. Lane, 1985, *Assistant professor of communication*. BS, 1981, Northwest Missouri State University; MA, 1982, University of Arkansas; further study, University of Kansas.

Linda Newton, 1965, *Assistant professor of communication*. AB, 1962, William Jewell College; MA, 1963, University of Missouri; MA, 1981, University of Missouri-Kansas City; further study, University of Kansas Medical Center.

Philip A. Thompson, 1984, *Instructor in communication*. BS, 1981, Northern Arizona University; MS, 1983, University of Southwest Louisiana; further study, University of Kansas.

Tom H. Willett, 1967, *Professor of communication, and chairman*. AB, 1966, Colorado State College, Greeley; MA, 1967, University of Nebraska; PhD, 1976, University of Missouri-Columbia.

Department of Education

Mary Ellen Bleakley, 1977, *Associate professor of education*. BA, 1962, University of Michigan; MA, 1966, PhD, 1977, University of Colorado; further study, Oakland University, Fort Hays State University.

Barbara E. Breier, 1986, *Assistant professor of education*. BA, 1969, Texas Christian University; MA, 1972, Texas A & I University; PhD, 1985, University of Kansas.

Ronilue Beery Garrison, 1980, *Assistant professor of education*. BS, 1963, William Jewell College; MS, 1966, University of Kansas.

Daniel M. Lambert, 1970, *Associate professor of education, and president of CollegeHill, Inc.* AB, 1963, William Jewell College; MA, 1965, Northwestern University; PhD, 1977, University of Missouri-Columbia; further study, Harvard Divinity School, University of Missouri-Kansas City Law School, The Claremont Graduate School.

Faye E. Moore, 1979, *Associate professor of education*. BA, 1955, Bethany Nazarene College; Diploma, The Montessori Training School for Teachers, Lee's Summit, Missouri; MEd, 1973, Northeastern Illinois University, EdD, 1976, Northern Illinois University.

M.J. Stockton, 1972, *Frances S. Evans professor of education, director of teacher certification, and chairman*. BA, 1962, Baylor University; MA, 1967, Sam Houston State University; EdD, 1971, Baylor University; further study, Georgetown University.

Department of English

John A. Canuteson, 1974, *Professor of English*. BA, 1964, University of Texas at Austin; MA, 1965, University of Chicago; PhD, 1975, University of Florida.

D. Dean Dunham, Jr., 1961-1965, 1969, *Professor of English, and chairman, and faculty instructional aide*. BA, 1960, Hastings College; MA, 1962, University of Arkansas; PhD, 1970, University of Nebraska.

Richard L. Harriman, 1962, *Associate professor of English, and director of the Fine Arts Program*. AB, 1953, William Jewell College; MA, 1959, Stanford University; LittD, 1983, William Jewell College; further study, Stanford University, Shakespeare Institute, Oxford University.

Timothy Dane Houghton, 1985, *Instructor in English*. BA, 1977, University of Pennsylvania; MA, 1979, San Francisco State University; PhD, 1984, University of Denver.

J. Gordon Kingsley, Jr., 1969, *Professor of literature and religion, and president*. BA, 1955, Mississippi College; MA, 1956, University of Missouri; BD, 1960, ThD, 1965, New Orleans Baptist Theological Seminary; postdoctoral study (English), 1968-69, University of Louisville; HHD, 1980, Mercer University; further study, University College Galway (Ireland), Northwestern University, Harvard University.

Ian Munro, 1978, 1981, *Associate professor of English*. BA, 1965, University of Victoria, British Columbia, Canada; PhD, 1976, University of Texas-Austin.

Sally Powers, 1983, *Assistant professor of English, director of learning skills, and director of the writing center*. AB, 1971, William Jewell College; MA, 1972, University of Missouri-Kansas City.

Cecelia Ann Robinson, 1979, *Assistant professor of English*. BA, 1969, Prairie View A&M University; MEd, 1971, Ed. Specialist, 1971, University of Missouri-Columbia; EdD, 1986, University of Kansas; further study, University of Missouri-Kansas City, Oxford University, University of Missouri-Columbia.

Ann Marie Woods Shannon, 1974, *Professor of English, and associate dean of the college*. BA, 1951, Agnes Scott College; AM, 1952, Radcliffe College; PhD, 1961, Emory University.

Jimmie E. Tanner, 1980, *Professor of literature, and dean of the college*. BA, 1955, Oklahoma Baptist University; MA, 1957, PhD, 1964, University of Oklahoma.

Myra Cozad Unger, 1961, *Professor of English and coordinator of Foundations program*. AB, 1960, William Jewell College, MA, 1963, Washington University; EdD, 1985, University of Kansas.

Department of History

Kenneth B. Chatlos, 1973, *Professor of history, and chairman*. BA, 1969, University of North Dakota; MA, 1971, PhD, 1976, University of Nebraska, Lincoln; further study, University of Indiana, Yale University, Oxford University.

Elaine A. Reynolds, 1986, *Instructor in history*. BA, 1979, State University of New York-Buffalo; MA, 1982, Cornell University; PhD candidate, Cornell University; further study, Exeter College, Oxford University.

Fredrick M. Spletstoser, 1985, *Assistant professor of history*. BA, 1969, BA, MA, 1971, University of Missouri-Kansas City; PhD, 1978, Louisiana State University.

Department of Languages

Antonio Vera, 1978, *Assistant professor of modern languages*. BA, 1969, MA, 1971, PhD,

1983, University of Missouri-Columbia; further study, St. Louis University.

Catherine Vera, 1974, *Assistant professor of modern languages*. BA, 1966, University of Missouri-Kansas City; MA, 1969, PhD, 1974, University of Missouri-Columbia; further study, Dartmouth College; Andrew W. Mellon Senior Faculty Fellow, University of Kansas, 1983.

Mary M. Walker, 1965, *Assistant professor of German*. AB, 1962, William Jewell College; MEd, 1965, University of Missouri-Kansas City; further study, Phillips Universitat, Marburg An der Lahn, Germany; Goethe Institut Freiburg and Berlin, Murnau, Oberbayern, Germany; University of Munich; University of Kansas.

John Westlie, 1985, *Assistant professor of French, and chairman*. BA, 1970, New College; MA, 1974, University of Minnesota; PhD, 1981, Yale University.

Library Faculty

Kenette J. Harder, 1984, *Reference and government documents librarian*. AB, 1977, William Jewell College; MLS, 1978, Texas Woman's University.

Bonnie Knauss, 1969, *Librarian and assistant professor*. AB, 1968, William Jewell College; MALS, 1969, University of Missouri-Columbia.

Sheila Miller, 1986, *Instructor and catalog/reference librarian*. BA, 1983, University of Wyoming; MS, 1986, Emporia State University.

John P. Young, 1967, *Director of library and assistant professor*. AB, 1964, William Jewell College; MALS, 1967, University of Denver; MPA, 1974, University of Missouri-Kansas City.

Department of Mathematics

Gerald W. Eichhoefer, 1985, *Assistant professor of computer studies*. BA, 1968, Greenville College; MA, 1984, PhD candidate, Rice University; further study, Asbury Theological Seminary, Southern Illinois University, St. Louis University, University of Houston.

COLLEGE PERSONNEL

Joseph Truett Mathis, 1969, *Associate professor of mathematics*. BA, 1963, Howard Payne College; MS, 1965, Texas Christian University; further study, University of Oklahoma.

Sherman W. Sherrick, 1968, *Assistant professor of mathematics*. BS, 1964, Southwest Missouri State; MS, 1968, University of Missouri-Rolla.

Darrel R. Thoman, 1962, *Professor of mathematics, and chairman*. BA, 1960, Hastings College; MA, 1962, University of Kansas; PhD, 1968, University of Missouri-Rolla; further study, University of Missouri-Kansas City.

Department of Music

Donald C. Brown, 1967, *Professor of music, director of church music studies, and chairman*. AB, 1961, University of South Carolina; MCMus, 1964, DMA, 1973, Southwestern Baptist Theological Seminary.

Helen L. Brown, 1968, *Instructor in music*. BME, 1961, Howard College; MCM, 1964, Southwestern Baptist Theological Seminary.

Sandra Emig, 1977, *Associate professor of music*. BMus, 1973, MA, 1975, PhD, 1978, Ohio State University.

W. Arnold Epley, 1982, *Professor of music and director of choral activities*. BM, 1962, Howard College (Samford University); BCM, 1964, MCM, 1965, DMA, 1976, Southern Baptist Theological Seminary.

Calvin C. Permenter, Jr., 1980, *Assistant professor of music*. BM, 1976, University of Cincinnati College-Conservatory of Music; MM, 1979, Drake University; further study, American Conservatory of Music, Fontainebleau, France; Academie Ravel de Musique, St. Jean-de-Luz, France.

Phillip C. Posey, 1965, *Professor of music, and director of instrumental activities*. BME, 1959, Florida State University; MM, 1963, Eastman School of Music of the University of Rochester, N.Y.; DMA, 1974, University of Missouri-Kansas City Conservatory of Music.

Pauline Peck Riddle, 1972, *Professor of music, and director of keyboard studies*. BSEd, 1953, Southwest Missouri State College; MSM, 1956, Southern Baptist Theological Seminary; DME, 1972, University of Oklahoma; further study, University of Kansas.

Janice E. Rogers, 1977, *Assistant professor of music*. BA, 1969, MA, 1977, University of Tennessee.

Phillip Wendell Schaefer, 1976, *Assistant professor of music*. BA, 1968, University of Northern Iowa; MS, 1976, University of Illinois.

Dean Wilder, 1975, *Robert H. McKee professor of music, and director of vocal studies*. BA, 1963, Cascade College; MM, 1970, New England Conservatory of Music.

Ronald K. Witzke, 1984, *Instructor in voice*. BME, 1978, Bethany (Oklahoma) Nazarene College; MM, 1984, University of Texas-Austin.

Department of Nursing

Karen L. Bakewell, 1986, *Assistant professor of nursing*. Diploma, 1976, Nebraska Methodist Hospital School of Nursing; BSN, 1978, Creighton University; MSN, 1982, University of Colorado.

Nora K. Clark, 1986, *Instructor in nursing*. BSN, 1971, Walla Walla College (Washington); MSN, 1986, University of Kansas.

Carolyn Edison, 1977, *Associate professor of nursing*. BA, 1959, Baylor University; MS, 1968, Troy State University; BSN, 1974, William Jewell College; MN, 1977, EdD, 1981, University of Kansas.

Ruth Bax Edwards, 1973, *Professor of nursing*. BSN, 1969, University of Missouri-Columbia; MSN, 1973, University of Texas-Austin; EdD, 1984, University of Kansas.

Nelda Schwinke Godfrey, 1984, *Instructor in nursing*. BSN, 1977, University of Missouri-Columbia; MN, 1980, University of Kansas.

Jeanne Johnson, 1973, *Associate professor of nursing, and chairman*. BSN, 1956, University

COLLEGE PERSONNEL

of Illinois; MA, 1975, University of Missouri-Kansas City; EdD, 1984, University of Kansas.

Joanne Kersten, 1979, *Assistant professor of nursing*. BS, 1974, William Jewell College; MN, 1979, EdD, 1983, University of Kansas.

A. Lorene Massa, 1983, *Assistant professor of nursing*. BSN, 1967, Northeast Missouri State University; MA, 1970, University of Iowa; further study, University of Missouri-Kansas City.

Delois Meyer, 1985, *Instructor in nursing*. BSN, 1983, University of Nebraska; MN, 1985, University of Kansas.

Colleen P. Sullivan, 1984, *Assistant professor of nursing*. BSN, 1972, Keuka College (New York); MSN, 1976, Boston College.

Janet Vincent Thompson, 1978, *Associate professor of nursing*. BSN, 1957, MN, 1973, University of Kansas; EdD, 1984, University of Kansas.

Evangeline M. Webb, 1986, *Assistant professor of nursing*. Diploma, 1958, Presentation School of Nursing, Aberdeen, SD; BA, 1961, Ottawa University; MA, 1964, Eastern Baptist Theological Seminary; MSN, 1980, University of Oklahoma-Oklahoma City.

Department of Philosophy

Keith R. David, 1969, *Professor of philosophy*. BA, 1954, Oklahoma Baptist University; MA, 1962, University of Wichita; PhD, 1969, Southern Illinois University; further study, Regent's Park College, Oxford University, Yale University.

Robert S. Trotter, 1949, *Professor of philosophy, and chairman*. AB, 1944, Mississippi College; BD, 1947, PhD, 1956, Yale University; further study, University of Minnesota.

Department of Physical Education

Fred Flook, 1975, *Assistant professor of physical education, and baseball coach*. BS, 1958; MA, 1971, Kansas State Teachers College of Emporia; further study, University of Utah.

Darrel W. Gourley, 1958, *Associate professor of physical education, and golf coach*. BS, 1949, Northeast Missouri State College; MEd, 1952, University of Missouri; further study, University of Indiana, University of Missouri.

Larry Max Hamilton, 1967, *Assistant professor of physical education, director of athletics, and track coach*. AB, 1961, William Jewell College; MS, 1967, Central Missouri State University.

Larry R. Holley, II, 1979, *Assistant professor of physical education, and head basketball coach*. AB, 1967, William Jewell College; MEd, 1968, University of Missouri-Columbia; further study, University of Missouri-Columbia, Northwest Missouri State University, DePaul University.

Barbara Rose Macke, 1968, *Assistant professor of physical education*. BS, 1963, Southeast Missouri State University; MA, 1972, University of Missouri-Kansas City; PhD candidate, University of Southern Illinois.

James A. Nelson, 1950, *Professor of physical education, and tennis coach*. BS, 1949, Missouri Valley College; MAEd, 1953, University of Missouri-Kansas City; further study, University of Illinois.

Vic Wallace, 1981, *Instructor in physical education and head football coach*. BA, 1965, Cornell College; MA, 1970, University of Northern Iowa.

Raymond E. Webster, Jr., 1985, *Associate professor of physical education, and chairman*. BA, 1960, Franklin College of Indiana; MS, 1963, Indiana State University; PhD, 1976, University of New Mexico.

Department of Physics

Charles Don Geilker, 1968, *Professor of physics, and chairman*. AB, 1955, William Jewell College; MA, 1957, Vanderbilt University; PhD, 1968, Case Institute of Technology.

COLLEGE PERSONNEL

John L. Philpot, 1962, *Professor of physics*. AB, 1957, William Jewell College; MS, 1961, PhD, 1965, University of Arkansas.

Department of Political Science

William W. Adams, Jr., 1955, *Professor of political science*. AB, 1951, MA, 1954, Certificate of Russian Institute, 1960, PhD, 1968, Columbia University; law study, University of Kansas, University of Missouri-Kansas City; further study, University of Oklahoma (Munich program), Georgetown University.

John A. Eilers, 1981, *Professor of political science/public administration, and chairman*. AB, 1954, Lafayette College; MA, 1956, University of Maryland; PhD, 1972, University of Iowa.

Department of Psychology

Donna R. Carroll, 1984, *Instructor in psychology*. BA, 1976, Avila College; MS, 1978, PhD, 1983, University of Missouri-Kansas City.

C. Ray Owens, 1983, *Assistant professor of psychology*. BS, 1975, Houston Baptist University; MA, 1977, University of Houston at Clear Lake City; PhD, 1984, Utah State University.

Robert E. Troutwine, 1980, *Assistant professor of psychology, and chairman*. BS, 1976, Southwest Missouri State University; MS, 1979, PhD, 1980, Tulane University.

Department of Religion

J. Bradley Chance, 1982, *Assistant professor of religion*. AB, 1975, University of North Carolina-Chapel Hill; MDiv, 1978, Southeastern Baptist Theological Seminary; PhD, 1984, Duke University.

Jerry B. Cain, 1978, *Instructor in religion, and chaplain to the college*. BS, 1968, Eastern New Mexico University; MA, 1971, Baylor University; further study, University of New Mexico, New Mexico Highlands University, Midwestern Baptist Theological Seminary.

David N. Duke, 1980, *Associate professor of religion, and chairman*. BA, 1972, Samford University; MDiv, 1975, Southern Baptist Theological Seminary; PhD, 1980, Emory University.

Milton P. Horne, 1986, *Instructor in Religion*. BA, 1979, University of Missouri-Columbia; MDiv., 1983, Midwestern Baptist Theological Seminary; D.Phil candidate, University of Oxford.

Department of Sociology

Edgar Chasteen, 1965, *Professor of sociology and anthropology*. BS, 1957, MA, 1959, Sam Houston State College; PhD, 1965, University of Missouri; further study, University of Kansas.

Earl R. Whaley, 1955, *Professor of sociology, and chairman*. BS, 1949, University of Tennessee; BD, 1952, ThM, 1953, Southern Baptist Theological Seminary; MA, 1954, George Peabody College for Teachers; DM, 1974, Midwestern Baptist Theological Seminary; further study, University of Kansas.

Adjunct and Part-Time Faculty, 1986-87

Larry E. Bernard, 1987, *Adjunct instructor in religion*.

Georgia B. Bowman, 1947-79, 1981, *Adjunct professor of Latin*.

Richard C. Brown, 1987, *Adjunct instructor in communication*.

Randall Cunningham, 1985, *Adjunct instructor in music*.

Andrew DeWitt, 1986, *Adjunct instructor in music*.

Larry Dickerson, 1980, *Adjunct instructor in philosophy*.

Jan Echols, 1981, *Adjunct instructor in English*.

Jackie Edwards, 1985, *Adjunct instructor in music*.

Joel Forthun, 1986, *Adjunct instructor in music*.

Scott Francis, 1987, *Artist in residence*.

COLLEGE PERSONNEL

Neita Geilker, 1971, *Adjunct instructor in English.*

Ben Gowler, 1986, *Adjunct instructor in music.*

Gwen Griffin, 1984, *Adjunct instructor in English.*

Kathryn Griffith, 1965, *Assistant professor of French.*

Cheryl Grosser, 1982, *Adjunct instructor in English.*

James Hammond, 1985, *Adjunct instructor in music.*

Larry D. Harman, 1978, *Adjunct instructor in business law.*

Catherine Heimovics, 1987, *Adjunct instructor in political science.*

Susan S. Hendrix, 1986, *Adjunct instructor in music.*

Joan C. Henson, 1985, *Adjunct instructor in mathematics.*

Juarenne C. Hester, 1973, *Adjunct instructor in education.*

D. Leslie Hollon, 1986, *Adjunct instructor in religion.*

Joy Jobe, 1986, *Assistant instructor in biology.*

Donna Johnson, 1986, *Assistant instructor in biology.*

David R. Jones, 1983, *Director of the Stocksdale Art Gallery.*

Marilyn Propp-Jones, 1980, *Adjunct instructor in art.*

Penny Kievet, 1979, *Adjunct instructor in communication.*

Rebecca Koop, 1980, *Adjunct instructor in art.*

Ed Lakin, 1950, *Adjunct professor of music.*

Adrian Lamkin, 1981, *Adjunct instructor in foundations and religion.*

Holley LaPointe, 1985, *Adjunct instructor in physical education.*

Peter Maas, 1986, *Adjunct instructor in English.*

Leslie Mengel, 1982, *Adjunct instructor in music.*

Elaine Moore, 1977, *Adjunct artist-instructor in music (flute).*

Rebecca Morales, 1987, *Adjunct instructor in music.*

Patrick J. Nickle, 1982, *Adjunct instructor in business administration.*

Gary Phelps, 1985, *Adjunct instructor in philosophy.*

Ann Posey, 1966, *Adjunct instructor in music (piano).*

Betty S. Richert, 1975, *Assistant professor of nursing and clinical laboratory coordinator.*

John Ricker, 1979, *Adjunct instructor in music (guitar).*

Ron Roberts, 1982, *Adjunct instructor in music.*

Marilyn Russell, 1984, *Adjunct instructor in English.*

Don Schoonover, 1986, *Adjunct instructor in physics.*

Leroy Seat, 1987, *Adjunct instructor in religion.*

Patricia Soper, 1986, *Adjunct instructor in biology.*

Terri Teal, 1984, *Adjunct instructor in music.*

Jeanne Tomellari, 1986, *Adjunct instructor in music.*

Doreen B. Voltman, 1982, *Adjunct instructor in music education.*

Kenneth Walker, 1986, *Lecturer in economics.*

Lynda Walker, 1983, *Adjunct instructor in music.*

Michael Willett, 1984, *Adjunct instructor in religion.*

Deanna Winship, 1986, *Adjunct instructor in business administration.*

Emeriti Faculty and Administrators

Georgia B. Bowman, *Professor of communication, and chairman, 1947-1979.*

COLLEGE PERSONNEL

Wilbur J. Bruner, *Professor of modern languages, and chairman, 1936-1978.*

Lotie Chiles, *Professor of education, and director of elementary education, 1950-1977.*

Thomas S. Field, *President, 1970-1980.*

Bernice B. Gonzalez, *Associate professor of modern languages, 1964-1974.*

Wallace A. Hilton, *Professor of physics, and chairman, 1946-1980.*

E.W. Holzapfel, *Vice President of student affairs, 1947-1970; Acting President, 1969-1970.*

D. Vern LaFrenz, *Associate professor of mathematics, 1945-1969.*

Edward Lakin, *Professor of music, 1950-1977.*

David O. Moore, *Professor of religion, and chairman, 1956-1986.*

Virginia D. Rice, *Associate professor of communication, 1930-1975.*

Olive E. Thomas, *Associate professor of biology, 1946-1974.*

Kermit C. Watkins, *Professor of economics, and chairman, 1956-1978.*

Administrative Officers, 1987-88

Susan J. Armstrong, B.A., M.B.A., *Director of Student Financial Planning.*

Elaine Barnes, B.S., *Registrar.*

Suzanne Barrett, B.A., M.L.S., *Learning Resource Center Coordinator.*

Richard P. Bowles, M.D., *College Physician.*

Sylvia L. Bruere, B.A., *Director of Student Activities.*

DeeDee Bruns, B.S., *Associate Director of Admissions.*

Jerry B. Cain, B.S., M.A., *Chaplain to the College and Collegiate Vice President.*

John Cain, B.A., M.A., *Director of Counseling and Testing.*

J. Bradley Chance, A.B., M.Div., Ph.D., *Director of Academic Advising.*

Victor L. Davolt, B.A., *Admissions Counselor.*

Larry Dickerson, B.A., M.Div., *Computer Specialist.*

Greta Engberg, B.S.N., M.S.N., *Director of Skillings Health Center.*

Karen F. Fitzpatrick, B.S., *Regional Director of Admissions.*

Corrine Geabhart, *Assistant Director of Student Financial Planning.*

Helen Gillespie, B.S., *Business Office Manager.*

Sandra M. Hader, B.B.A., *Vice President for Administrative Services.*

Wendla A. Hardy, B.S., *Administrative Assistant to the Director of Fine Arts Program.*

Richard L. Harriman, B.A., M.A., Litt.D., *Associate Professor of English and Director of the Fine Arts Program.*

Susan Heath, B.A., M.S., *Director of Alumni Services.*

R. Melvin Henderson, A.B., M.Th., Ph.D., *Director of Planned Giving.*

Ann L. Hickey, B.A., M.A., M.Div., *Co-Director of Campus Ministries.*

Daniel G. Hickey, B.A., M.Div., *Co-Director of Campus Ministries.*

Mary L. Kelley, L.P.N., *Evening Nurse, Skillings Health Center.*

J. Gordon Kingsley, Jr., B.A., M.A., B.D., Th.D., H.H.D., *President.*

Rodger L. LaBeth, B.A., M.A., *Coordinator of the Mabee Center for Physical Education, and Associate Athletic Director.*

Adrian Lamkin, Jr., B.A., M.Div., Ph.D., *Director, William E. Partee Center for Baptist Historical Studies.*

Marilyn Landers, B.S., *Director of Annual Giving.*

Joan S. Lawrence, *Administrative Assistant to the President.*

COLLEGE PERSONNEL

Charlotte M. Legg, B.A., M.A., *Director of Public Relations.*

Marilyn McConnell, B.S., *Consultant to Development and the Fine Arts.*

Stan McGarvey, B.S., M.S.T., *Admissions Counselor and Head Football Coach.*

Virginia Merrigan, *Administrative Assistant to the Director of Physical Plant.*

Judith M. Michael, B.S., *Assistant Director of Career Development and Placement, and International Student Specialist.*

Ronald C. Mullennix, B.A., J.D., *Trust Counsel and President, CollegeHill Investments, Inc.*

Dean Nay, B.S., *Manager of Food, Housing, and Auxiliary Services.*

Sandy Noland, B.S., M.S., *Assistant Dean of Students.*

T. Edwin Norris, B.A., *Associate Director of Admissions.*

Suzanne Patterson, B.S., *Director of Research and Grants.*

Gary Phelps, B.A., M.S., *Dean of Student Affairs, and Collegiate Vice President.*

Sally Powers, B.A., M.A., *Director of Learning Skills and the Writing Center.*

Aaron M. Reuck, B.S.C.E., *Director of Physical Plant.*

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THEME (F): Faculty—Flook, **D. Johnson**, Knauss, Posey, Robinson, Rogers

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Consultative Committees

CAMPUS ORGANIZATIONS AND SPECIAL EVENTS (A/F): Faculty—Hamilton, Harriman, Hoyt, Massa, Stockton; Administrators—Noland, **Phelps**

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Official Calendar 1987-88

First Semester

August 29
Residence Halls Open

August 29-31
New Student Orientation

September 1
Classes Begin

September 3
Opening Convocation

October 8
Fall Break
Begins (5 p.m.)

October 13
Classes Resume

November 24
Thanksgiving Holiday
Begins (5 p.m.)

November 30
Classes Resume

December 15-18
Final Examinations

December 18
Christmas Holiday
Begins (5 p.m.)

Winterim

January 11
Winterim Begins

January 22
Winterim Ends

Second Semester

January 25
Classes Begin (p.m.)

March 4
Achievement Day

March 11
Spring Break
Begins (5 p.m.)

March 21
Classes Resume

April 1
Good Friday Holiday

May 9-13
Final Examinations

May 15
Baccalaureate and
Commencement

Summer School

May 30
Summer School Begins

July 22
Summer School Ends

1988-89

First Semester

August 27
Residence Halls Open

August 27-29
New Student Orientation

August 30
Classes Begin

September 1
Opening Convocation

September 29
Fall Break
Begins (5 p.m.)

October 4
Classes Resume

November 22
Thanksgiving Holiday
Begins (5 p.m.)

November 28
Classes Resume

December 13-16
Final Examinations

December 16
Christmas Holiday
Begins (5 p.m.)

Winterim

January 9
Winterim Begins

January 20
Winterim Ends

Second Semester

January 23
Classes Begin (p.m.)

March 3
Achievement Day

March 10
Spring Break
Begins (5 p.m.)

March 20
Classes Resume

March 24
Good Friday Holiday

May 8-12
Final Examinations

May 14
Baccalaureate and
Commencement

Summer School

June 5
Summer School Begins

July 28
Summer School Ends

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