

THE COLLEGE OF ARTS AND SCIENCES Advising Offices are Located in:

105 Bowman Hall (330) 672-2062

COLLEGE OF ARTS AND SCIENCES

THE MISSION OF THE COLLEGE

The College of Arts and Sciences offers a wide range of programs and coursework in the liberal arts, including the humanities, the social sciences, and the natural and mathematical sciences. The college is committed to the principles, purposes and values of a liberal arts education. The traditional liberal arts focus on the most fundamental and enduring aspects of human thought and human civilization. For this reason, the liberal arts provide both a rich variety of fields of academic specialization and a vital base for professional, creative and technological study.

Students pursuing degrees in the College of Arts and Sciences are introduced to a variety of disciplinary and intellectual perspectives through the college's General Requirements. These requirements provide a solid foundation in essential communications skills and mathematics; a strong and varied background in the humanities, the social sciences and the natural sciences; and, for most students, study of a foreign language as a tool for approaching another culture. These requirements thus supply a broad acquaintance with the traditional liberal arts and a firm basis for more specialized study.

All students in the college select at least one area of academic specialization. This area of specialization may be within one of the traditional disciplines, it may be interdisciplinary, or it may be self-designed. Students may also pursue a second major area or one or more minor areas of specialization.

In addition to general requirements and the specific requirements within the areas of specialization, students have elective hours that may be used to pursue secondary areas of specialization, to explore areas of general interest, or to take additional coursework within the area of specialization or in related areas. Elective coursework in the liberal arts provides not only a sound basis for more specialized learning but also intellectual enrichment that is of lasting value to any student in the university.

Study in the liberal arts provides a basis for success in a wide variety of careers. In addition to preparing students for later professional study, it provides communication skills, analytical tools and mental flexibility necessary for success in adapting to changing careers in a changing world. Above all, study in the liberal arts prepares students for a lifetime of learning experiences and for personal and intellectual as well as professional growth.

ORGANIZATION OF THE COLLEGE

The college consists of 16 academic departments. The departments in the area of the humanities include English, History, Modern and Classical Language Studies, Pan-African Studies and Philosophy. Departments in the social sciences include Anthropology, Geography, Justice Studies, Political Science, Psychology and Sociology. The natural and mathematical sciences include the Departments of Biological Sciences, Chemistry, Computer Science, Geology, Mathematics and Physics.

In addition to these academic departments, the college also houses the Chemical Physics Interdisciplinary Program and 22 centers and institutes, including the Center for International and Comparative Programs, the Center for Applied Conflict Management, the Lyman L. Lemnitzer Center for NATO and European Community Studies, and the Ethnic Heritage Program. Numerous interdisciplinary curricular programs are also contained within the college.

ACADEMIC PROGRAMS

The college offers three undergraduate degree programs: the Bachelor of Arts, the Bachelor of Science and the Bachelor of General Studies. In addition, the college offers five graduate degree programs: Master of Arts, Master of Public Administration, Master of Science, Master of Liberal Studies and Doctor of Philosophy. Information on these programs can be found in the Kent State University *Graduate Schools Catalog*.

The College of Arts and Sciences also offers premajors in three areas: Humanities, Social Sciences, and Natural Sciences and Math. Students may be admitted to the College of Arts and Sciences by declaring a specific major, as described below. Or, students may select one of the available premajors, as described on Pages 105-106.

Bachelor of Arts

The Bachelor of Arts (B.A.) is the traditional liberal arts degree. It emphasizes a broad background in the liberal arts, with a focus in a major field of study. The college currently offers 30 departmental and interdisciplinary majors within the B.A. degree.

The B.A. degree is designed to impart intellectual breadth and educational diversity. Students who graduate with the B.A. have achieved competence in a major field of specialization within the traditional liberal arts. Such students have also become acquainted with a broad range of human ideas, cultures and institutions.

Program requirements for all majors in the B.A. degree in the College of Arts and Sciences are listed beginning on Page 112.

Departmental Majors

Most students pursuing the Bachelor of Arts degree select one of the traditional departmental majors as their field of specialization. These traditional majors focus on one particular discipline within the humanities, social sciences, or natural and mathematical sciences. Most of the coursework required for a departmental major will be taken within the department that houses the major discipline.

Most B.A. departmental majors allow for a fairly large number of elective hours within the undergraduate program. These elective hours may be effectively used to pursue intellectual interests outside the major or for personal enrichment; study abroad can work well in such programs. Students often find it rewarding to apply their elective hours to a second major or a minor. Such combinations of programs can generally be accommodated within the 121 hours required for graduation. Students may also choose to combine a departmental major within the B.A. degree with another degree program, either the Bachelor of Science in the College of Arts and Sciences or another degree in another college.

Whether students pursue a single field of specialization or a combination of such fields, the liberal arts degree with a departmental major can provide the analytical and communications skills needed for success in a wide range of careers. Students with departmental majors enter the professions, business and industry, government and civil service, and secondary and higher education.

Departmental majors in the Bachelor of Arts program in the College of Arts and Sciences are:

- · Anthropology (Cultural)
- Biology
- · Chemistry
- Economics
- English
- French Geography
- Geology German
- History
- Justice Studies

- Latin
- Mathematics
- · Pan-African Studies
- Philosophy
- Physics
- · Political Science
- Psychology
- Russian
- Sociology
- Spanish

Interdisciplinary Majors

B.A. interdisciplinary majors combine coursework from several traditional disciplines. Although drawn from several disciplines, the courses in any interdisciplinary major will have a common factor that reflects the focus of the program. In the interdisciplinary programs, courses in the various divisions of the college—humanities, social sciences, and natural sciences and math—and courses offered in the other colleges of this university are integrated to provide a comprehensive view of the complexities of the field of specialization. This integration of academic disciplines can provide a more coherent interpretation of certain areas of study than is possible through any one traditional field.

Like the departmental majors, the interdisciplinary majors may be combined with a second major, a minor or a separate degree. With the exception of earth science and the individualized major, the college's interdisciplinary majors require that students combine social

and cultural study. For this reason, the interdisciplinary majors combine particularly well with majors or minors in the humanities, foreign languages and the social sciences.

Such interdisciplinary study provides the same liberalizing qualities as the traditional departmental majors. It also provides a background appropriate to careers in many fields, including government and education.

The interdisciplinary majors with an international focus are particularly adaptable to various forms of study abroad. Kent State University students may participate in a variety of overseas study and foreign exchange programs operated by the university; they may also, with permission, participate in similar programs offered by other colleges and universities.

Because the interdisciplinary majors are not housed within specific departments, students interested in an interdisciplinary major should consult the coordinator of that program. Interdisciplinary majors in the B.A. program in the College of Arts and Sciences are:

- · American Studies
- · The Individualized Major
- Applied Conflict Management International Relations
- Classics
- · Latin American Studies
- Earth Science
- Soviet and East European Studies
- Ethnic Heritage

Bachelor of Science

The Bachelor of Science (B.S.) degree places a somewhat greater and earlier emphasis on specialization in a chosen field. The college offers 20 fields of concentration as well as several preprofessional programs involving coursework in the natural sciences within the B.S. program.

Although it permits a greater degree of specialization than the B.A. degree, the B.S. degree also encourages intellectual breadth and educational diversity. Students who graduate with the B.S. have acquired a firm basis in the traditional liberal arts, along with substantial preparation in a field of concentration. In the process, the students have become acquainted with the content and methodology of these disciplines.

Fields of Concentration

Major areas of study within the B.S. program are referred to as fields of concentration. A field of concentration within the B.S. degree usually encompasses several allied disciplines. It is designed to provide intensive study in one area, with supplemental study in related areas.

Students who intend to pursue graduate study or advanced research in a scientific discipline often choose the B.S. degree because of its intensity of specialization. For some students, however, the B.A. degree may be preferable because of its greater flexibility.

Because of the number of hours required in a field of concentration, students cannot always combine a field of concentration with another area of specialization within the 121 hours required for graduation. In some cases, however, combining areas of specialization can be particularly rewarding. Students who wish to combine programs should seek advice early and plan their schedules carefully.

The program requirements for the departmentally based fields of concentrations in the B.S. program in the College of Arts and Sciences are listed beginning on Page 128.

Departmentally based fields of concentration in the B.S. program in the College of Arts and Sciences are:

- Anthropology (Biological, Archaeology)
 Geology
- Applied Mathematics
- Biology
- Botany
- · Chemistry
- Computer Science
- Conservation
- French Translation

- German Translation
- Mathematics
- Physics
- Russian Translation
- · Spanish Translation
- Zoology

Three-Plus-One Programs

Students who choose to pursue three-plus-one programs take three years of preprofessional study at Kent State University, followed by a year or more of intensive professional training at an accredited professional school or clinical facility. Upon the satisfactory completion of this professional training, the B.S. degree from the College of Arts and Sciences at Kent State University is awarded.

Three-plus-one programs are designed for students with a well-defined, specific, professional career goal. Currently, the College of Arts and Sciences offers a three-plus-one program in Medical Technology. Because of the intensive, professional focus of these programs, students pursuing them should work closely with their faculty advisers. Students who are interested in any of these programs should consult the Department of Biological Sciences, 256 Cunningham Hall, for further information.

The program requirements for the three-plus-one programs offered under the B.S. program in the College of Arts and Sciences are listed beginning on Page 139.

Premedical Programs

The College of Arts and Sciences offers programs for students who wish to pursue professional careers in medicine. These premedical programs are designed to provide a sound basis in biology and chemistry, along with coursework in physics and mathematics. The premedicine, preosteopathy, preveterinary medicine and predentistry programs are intended to prepare students for advanced, professional study in the medical sciences.

These programs meet the coursework requirements for admission to most medical schools. Students who wish to pursue a premedical program would be well advised, however, to check carefully the admissions requirements of the professional schools they wish to enter. Students should also regularly seek advice from their faculty advisers.

Students may pursue premedical programs under the Bachelor of Arts degree, the Bachelor of Science degree or a carefully designed Bachelor of General Studies degree. The premedical program serves as a secondary major for students in the B.A. and B.S. programs. Students who elect the B.A. or B.S. degree must also complete a primary major or field of concentration. A premedical major, along with the primary major, may also be combined with minor programs.

The program requirements for the premedical programs in the College of Arts and Sciences are listed beginning on Page 140.

Integrated Life Sciences (B.S./M.D.)

Kent State University participates in a combined program with the Northeastern Ohio Universities College of Medicine. This is an intensive six-year program that requires study during the summer as well as during the academic year. Admission to the program is highly selective.

Students admitted to the Northeastern Ohio Universities College of Medicine through Kent State University are awarded the B.S. degree in Integrated Life Sciences by the College of Arts and Sciences, as well as the M.D. degree by the NEOUCOM at the completion of their six-year program.

Further details concerning the B.S./M.D. program can be found beginning on Page 143.

Bachelor of General Studies

The Bachelor of General Studies (B.G.S.) degree is intended for students whose educational needs are not met by traditional fields of specialization. The B.G.S. is a nonmajor degree program that provides students with a maximum of freedom and flexibility in developing individualized programs that serve their specific, unique educational goals. The nontraditional nature, purposes and requirements of this degree require students pursuing the B.G.S. to work closely with the college office in planning their academic programs.

The B.G.S. degree has special admission procedures and requirements. This degree may be used to satisfy an interest in a wide range of areas appropriate to a general education, to pursue a broad concentration in an academic area such as the humanities, the social sciences, or the natural and mathematical sciences, or to prepare for further study in a professional area (law, medicine, urban planning, public administration, etc.) by combining courses from different disciplines.

Students who have graduated with the B.G.S. degree have gone on to pursue careers in many fields, ranging from business to law and medicine. Some graduates have pursued further study in a traditional academic discipline. Students often choose the B.G.S. program because it allows them to select an individually tailored set of courses that fulfills needs of a career they are already pursuing.

The B.G.S. may not be combined with a regular major or field of concentration. However, the premedical major may be taken as part of a B.G.S. In addition, any of the minors listed beginning on Page 146 as available to Arts and Sciences students may be taken as minors with the B.G.S.

The program requirements for the B.G.S. program in the College of Arts and Sciences are listed beginning on Page 142.

Minor Programs

Students pursuing a B.A. degree or a B.S. degree in the College of Arts and Sciences may undertake, in addition to the primary major or field of concentration, a secondary area of specialization or minor program. In addition, students pursuing the B.G.S. degree may incorporate minors within their self-designed programs. Minors provide one way of balancing and integrating an undergraduate course of study. Other routes to the same goal include double majors, dual degrees and single majors with carefully selected electives. Because there are many ways of planning an effective undergraduate program, minors are entirely voluntary. If they wish to do so, students may elect a minor, or more than one minor.

A minor is intended to provide an area of specialization that is less detailed and less extensive than a major program. For this reason, minors require less to complete than majors. They usually provide a general introduction to the discipline or field of study, along with a few more specialized upper-division courses. Students should be aware that a minor generally will not prepare them for advanced study or research in the field without further undergraduate coursework.

Minors may be chosen to complement the major field of study; that is, they may be in a field closely related to the major. Students may also choose minors that are in no way related to the major pro-

gram. In such a case, the minor is usually chosen because of serious personal interest in the field. Minors allow students to pursue their own interests within a structured context.

Two types of minor programs are offered within the College of Arts and Sciences. Students may pursue minors within individual departments, or they may elect interdisciplinary minor programs that include coursework from several departments. Certificates of achievement are awarded to students who successfully complete the interdisciplinary minors; these certificates are described more fully below.

All of the minor programs offered by the College of Arts and Sciences are available to any student pursuing a baccalaureate degree at Kent State University. Students who are pursuing a major degree program outside the College of Arts and Sciences should contact their school or college for further details and to declare these minors.

Program requirements for all minors in the College of Arts and Sciences are listed beginning on Page 147.

Departmental Minors

In a departmental minor, coursework is taken entirely or almost entirely within a single department. Students pursuing such a minor will take many of the same courses that majors in the discipline take, but the courses will be fewer in number and may be different in their distribution. Departmental minors provide a detailed introduction to a traditional discipline, but they do not provide the depth supplied by a major program. A departmental minor may be combined with any major or field of concentration within the college except for the major and/or field of concentration that bears the same title.

Departmental minors in the College of Arts and Sciences are:

- · Anthropology
- Applied Conflict Management
- · Applied Mathematics
- Biological Sciences
- Chemistry
- Computer Science
- Economics
- English
- French
- Geography
- Geology
- German
- Greek

- History
- Justice Studies
- Latin
- Mathematics
- · Pan-African Studies
- Philosophy
- Physics
- · Political Science
- Psychology
- Russian
- Sociology
- Spanish

Interdisciplinary Minors

Like departmental minors, interdisciplinary minors may be elected in addition to the required major or field of concentration. They may also be incorporated within a B.G.S. program. Like departmental minors, interdisciplinary minors provide a limited specialization in a particular field of study. Interdisciplinary minors require coursework drawn from several disciplines. These courses have an element in common that reflects the focus of the program. Because the interdisciplinary minors include coursework from several disciplines, they can provide a clearer view of certain areas of study than is possible through any one traditional field. The interdisciplinary minors may be combined with any major or field of concentration within the college.

A certificate is awarded upon completion of an interdisciplinary minor indicating that the students have completed a focused course of study in the area. The certificate does not indicate the equivalent of preprofessional training, nor does it imply that the students have met the standards for professional certification of an external professional body.

Certain interdisciplinary minors may be incorporated as the core studies emphasis area within the ethnic heritage interdisciplinary major in the Bachelor of Arts program.

Interdisciplinary minors in the College of Arts and Sciences are:

- · African Studies
- · American Studies
- Asian Studies
- British Studies
- Cartography
- Classics
- Climatology
- · Comparative Literature
- German Studies
- · Health-Care Ethics
- Hellenic Studies
- Jewish Studies

- Lesbian, Gay, Bisexual and Transgendered Studies
- · Lithuanian Studies
- North Atlantic Security Studies
- Paralegal Studies
- Pre-Law
- Religion Studies
- · Romanian Studies
- · Russian Studies
- · Urban Studies and Planning
- · Women's Studies
- The Writing Minor

Minors in Other Colleges

In addition to the minors available within the college, Arts and Sciences students may also select from a large number of minor programs offered by the other colleges and independent schools at Kent State University. Information concerning the minors available to Arts and Sciences students in the College of Business Administration, the College of Education, and the College of Fine and Professional Arts can be found beginning on Page 166. It is essential that students interested in these programs seek advice from both the office of the College of Arts and Sciences and the office of the college responsible for the minor. To successfully complete a minor in another college, Arts and Sciences students must meet the cumulative GPA requirement for that minor.

Associate's Degree Programs

The college cooperates with the Division of Regional Campuses in making available associate's degrees in General Studies to students enrolled at the university's seven Regional Campuses. These two-year degree programs may be either technical or general in nature. The technical associate degrees provide technical skills that focus on specialized areas of employment, while the general associate of arts and associate of science provide a basis for the future study of a bachelor's degree. They are available only at the Regional Campuses. Specific information concerning these degrees is contained in the "Regional Campuses" section of this *Catalog*.

Nondegree Programs

Those who wish to take coursework for personal enrichment or to enhance professional skills but who do not seek a degree may be admitted to the university as a special "nondegree student." Nondegree students may enroll for one year or 32 hours. If nondegree students wish to become candidates for a degree in the College of Arts and Sciences, they must formally declare their intended major and promptly begin to complete requirements omitted from the previous coursework.

The college also provides some nondegree preprofessional programs for students planning to transfer to professional schools. These programs are described in the section titled "The Liberal Arts as a Career Base."

ACADEMIC ADVISING

The College of Arts and Sciences provides a comprehensive advising system that is designed not only to help students reach their academic goals but also to assist them in achieving the greatest benefit from their academic programs. Appropriate academic advice can make a major contribution to students' academic success. Students should actively seek out and use the advising resources available.

Premajors

Many students decide upon a major at the time of admission to the College of Arts and Sciences. Those students enter directly into a major program and do not begin as a premajor. Other students decide upon a major sometime after beginning their college study. During the time when they are more clearly discovering their interests, students in the College of Arts and Sciences will become premajors. Students will select one of three premajors areas: 1) Humanities, 2) Social Sciences, or 3) Natural Sciences and Math. Specific disciplines within each of these areas are:

Humanities
English
History
Modern and Classical Languages
Pan-African Studies
Philosophy

Social Sciences
Anthropology
Economics
Geography
Justice Studies
Political Science
Psychology
Sociology

Natural Sciences and Math Biological Sciences Chemistry Computer Science Geology Mathematics Physics

Each of the three Arts and Sciences areas—Humanities, Social Sciences, and Natural Sciences and Math—offers students opportunities for developing strong critical thinking and communication skills, qualities valued by all prospective employers. These qualities provide the individual with the flexibility and adaptability needed for new and changing professional responsibilities. These skills are important, too, when a departmental major leads to further study in a research, education or law school program.

It often happens that preparation in one Arts and Sciences area may provide a good background for a career on what appears to be a different path. While the characteristics of each Arts and Sciences area cross over into the other two areas, students might discover that their interests match best with one of the following broadly described areas:

<u>Humanities</u>. Students and professionals in the humanities study the scope and aspirations of human experience, often as these find expression through the literatures, languages, religions and cultures of diverse peoples or are given expression in their histories. Specialists in this area examine the experience of peoples in their time and probe questions of aesthetics, the use and misuse of language, ethics, values, cultural myths and more. Majors in one of the humanities disciplines may be found pursuing a wide range of careers, including professional and creative writing, library and museum services, interpreting and tourism, government service, international relations, banking and business.

Social Sciences. The social sciences are for those interested in the ideas and behaviors of both individuals and societies, as well as their institutions, such as families, communities and governments. Social scientists examine people in their environments and pay particular attention to how cultural and social factors affect individual and group behavior. How people interact with each other and with their environments is of particular interest. Students interested in becoming city planners, administrators, counselors, paralegals, police officers, politicians, or entering other human service professions will find themselves well prepared with a major in one of the social sciences.

Natural Sciences and Math. Natural scientists and mathematicians pursue inquiry aimed at further understanding of our natural world and the mechanisms, processes and systems that lie behind how things work. Through experimentation, observation and interpretation, these professionals may predict outcomes and develop applications useful for addressing significant problems. Career paths for majors in the natural sciences and math include medical sciences, pharmaceutical cosmetics, chemical industries, wildlife conservation, government agencies, computer programming, nanotechnology, cryptography and engineering.

Declaring a premajor in the Humanities, Social Sciences or Natural Sciences and Math links students to a web of advising services that helps them discover more about the focus of Arts and Sciences disciplines; make connections to departments; find a more direct path to successful completion of a bachelor's degree; and develop the skills and knowledge that meet their individual and professional goals. Services for premajors include focused advising during the PASS program, specialized University Orientation classes and departmental activities, all aimed at helping students find their interests and enroll in courses that will lead to successful completion of a degree that meets their career goals.

Students may elect a College of Arts and Sciences premajor in one of several ways: on the Kent State application form, while attending the PASS program or by meeting with an adviser in the College of Arts and Sciences office, 105 Bowman Hall. Advisers in the college office may be seen on a walk-in basis, Monday through Friday, 8:30 a.m. to 4:30 p.m.

Student Success

The *Undergraduate Catalog* is the authoritative advising document for academic programs at Kent State University. In addition to being familiar with this chapter that focuses on Arts and Sciences programs, students in the College of Arts and Sciences are expected to familiarize themselves with the general university regulations and procedures described in the preceding chapter titled General Information. Further general information about all programs offered through the College of Arts and Sciences is available in the college office (105 Bowman Hall). Students who do not complete their requirements in a timely fashion

may find their graduation delayed. For these reasons, students are urged to check their progress regularly with their major faculty advisers and with the college office. The initiative for checking requirements and the responsibility for meeting them rests with the students.

Advising for Transfer Students

Students transferring into the college from another university should consult with the college office for information on the applicability of their transfer coursework to the general requirements of the college and the program requirements of their major and minor programs of study.

Advising for General Requirements

Each of the undergraduate degree programs in the College of Arts and Sciences requires the completion of both general and program-specific requirements. Students with questions regarding the general requirements of the College of Arts and Sciences should visit the college office in 105 Bowman Hall to meet with an adviser.

Advising for Majors

General information about programs and college degree requirements is available to all students in the college office, along with help in planning class schedules, advising for students on probation, and help in developing appropriate study skills and habits. Students may also seek advice from the advising coordinators in the various departments and from the coordinators in the interdisciplinary programs. These coordinators can provide information about requirements, programs and other matters pertaining to the academic departments.

Students who have chosen a major in the College of Arts and Sciences must visit the college office to formally declare that major. All students in the College of Arts and Sciences are expected to formally declare a major no later than the beginning of their junior year (60 semester hours). Students are encouraged to declare a major as early as possible. After this formal declaration, students are assigned faculty advisers by their major departments. In addition to their assigned faculty advisers, students may also seek academic advice from departmental chairpersons, departmental advising coordinators, and the coordinators of the various interdisciplinary programs.

Students who select the individualized major within the B.A. or the B.G.S. are advised exclusively in the college office. Both of these programs require that students design their own courses of study; students who wish to pursue these programs must work closely with the college office in preparing to apply for admission to the programs.

Major advisers are members of the faculty. They can provide a wide range of information and help for undergraduate students. Students are urged to see their faculty advisers regularly, not only for schedule planning but also for advice about the discipline in general and for help in preparing for graduate study and eventual career advice.

Students should contact their faculty advisers at least once each semester to ensure that they are making adequate progress, to learn about changes in programs, and to discuss their ongoing education with an interested and knowledgeable person in the field.

Advising for Minors

Although minors are not required in the College of Arts and Sciences, undergraduate students may include one or more minors in their academic program. All of the minor programs available to Arts and Sciences students are listed beginning on Page 147. Some of these programs also award certificates of completion. Information about these programs is available from the college office. Minors as well as majors must be formally declared in the college office.

Students who elect an interdisciplinary minor should seek advice from the coordinator of that interdisciplinary program. Students who choose a departmental minor should seek advice from the advising coordinator of that department. Students pursuing a degree in Arts and Sciences who choose a minor in another college of the university (see the section "Minors in Other Colleges") should first visit the office of the College of Arts and Sciences for information; they will then be referred to the appropriate college for further advice. In any case, students who elect minors should consult with their major advisers to select courses that will best complement their major programs.

GENERAL INFORMATION

Lower-Division/Upper-Division Coursework

Students are required to take a certain number of courses in specific categories to meet University and College General Requirements. These requirements vary according to the degree sought; they are described in the section below titled "Degree Program Requirements." During the freshman and sophomore years, most of the courses students take will be at the lower-division level. Lower-division courses are numbered 10000-29999 and generally presume that the students have little or no specific background in the discipline. The principle purpose of the lower-division coursework is to lay the foundation of the students' general education and to introduce students to the field of specialization. Transfer students admitted to the college with 64 or more semester hours of credit should complete all remaining freshman and sophomore requirements within one academic year following their first registration.

Most undergraduate specialization is pursued through upper-division coursework. Upper-division courses are numbered 30000-49999. These courses require both greater familiarity with the subject matter and greater intellectual sophistication. Students are required to have completed the appropriate prerequisites in specified lower-division courses before entering upper-division courses. All degree programs in the College of Arts and Sciences require the successful completion of at least 42 upper-division hours of coursework.

Double Majors/Dual Degrees

A program that combines two major fields of study in the same degree program is referred to as a double major program. An example of a double major program would be the combination of the English and history majors in the B.A. program in Arts and Sciences. Completion of a double major requires that students complete a minimum of 121 hours.

A program combining two majors in distinct degree programs is referred to as a dual degree program. An example of a dual degree program would be the combination of a philosophy major in the B.A. program with a chemistry major in the B.S. program in Arts and Sciences. Any combination involving degree programs in more than one college is considered to be a dual degree program even if both degrees bear the same title. For example, the combination of an English major in the B.A. program in Arts and Sciences with an art history major in the B.A. program in Fine and Professional Arts is considered a dual degree program. Completion of a dual degree program requires that students complete a minimum of 140 total hours.

The College of Arts and Sciences will generally approve double majors and dual degrees within the college as long as there are at least 21 hours of coursework exclusively applied to each major or field of concentration. Certain major and degree combinations are specifically prohibited based upon departmental recommendations.

The option to pursue double majors and dual degrees continues subsequent to earning a B.A. or B.S. degree in the College of Arts and Sciences. For example, students who have earned a B.A. degree with an English major at Kent State University can have the completion of a second major such as sociology added to their transcript at a later time.

Requests for dual degrees between Arts and Sciences programs and programs in other colleges are considered on a case-by-case basis by the college office in consultation with the departmental units involved. Combinations involving programs in Arts and Sciences with related programs in the College of Education are generally restricted.

Elective Credits

For most programs in the College of Arts and Sciences, general requirements plus field of specialization requirements will not exhaust the 121 hours required for graduation. The remaining hours are elective credits and may be chosen at will, including courses in other colleges of the university, provided students possess the necessary prerequisites for the courses selected. Students may, of course, elect to take more than the minimum 121 hours required.

Electives should be carefully chosen to satisfy the students' intellectual interests or to complement and enhance the field or fields of specialization. Students are urged to seek faculty advice in selecting elective courses.

IP Grades

The grade of IP ("In Progress") indicates that work for the course will be completed after the end of the term and that the final grade will be entered when the work is completed. This grade may be awarded only in specified courses (such as continuing research, honors, or individual investigation projects or field placement/internships that do not correspond to the university calendar), which by their nature are such that students may not be expected to complete course requirements within the term of registration. The grade of IP is given at the discretion of the instructor; students desiring an IP grade should make arrangements with the instructor before the end of the term.

Study Abroad

Study in a foreign country can provide a breadth of experience and understanding that reflects the most central purpose of a liberal arts education. For this reason, the college encourages qualified students to incorporate foreign study in their undergraduate programs. Such study may be pursued through the university's own semester programs in England, Italy and Switzerland. Additionally, there are exchange programs available in France, Israel, Japan, Northern Ireland, Nova Scotia, Spain and Russia. Students may also study through similar programs offered by other institutions. Information about study abroad may be obtained from the Center for International and Comparative Programs, 124 Bowman Hall.

Students may also study in Washington, D.C., through the Department of Political Science's Washington Program. Field study at locations outside the university is also available through several other departments. Information about such programs is available in the offices of the departments concerned.

Prerequisites

In areas where learning is sequential, courses often have required prerequisites. These prerequisites exist to protect students from attempting coursework for which they are not properly prepared. It is the responsibility of the individual students to make certain that they have met all prerequisites before entering any course. Students who enroll in courses without the specified prerequisites are subject to being deregistered.

On occasion, exceptionally well-prepared students may be given special permission to take a course without having met the prerequisites. In such a case, the students should be prepared to face possible difficulties in the course.

Sequential Coursework

In certain subject fields, such as mathematical sciences, foreign languages, English composition, and some of the basic natural sciences, knowledge is sequential or cumulative at the lower levels of study, and courses are structured in clear sequences. Students who already have received credit for, or established proficiency at, one

level in such a sequence of courses may not receive academic credit counting toward graduation for a prior course in the sequence or for a course in a lower sequence.

ENGLISH COMPOSITION, MATHEMATICS AND LOGIC, FOREIGN LANGUAGE *

The following sections contain specific information concerning the English composition, mathematics and logic, and foreign language requirements in the College of Arts and Sciences. Students who are uncertain as to the applicability of sequential coursework in these or other areas should consult the office of the College of Arts and Sciences, 105 Bowman Hall.

English Composition

All programs in the College of Arts and Sciences require the successful completion of the basic College English sequence. The College English sequence consists of ENG 10000, Introduction to College English; followed by ENG 10001, College English I; and ENG 10002, College English II. The initial placement in the College English sequence is determined by proficiency as established by ACT English or SAT verbal scores. Students must begin the sequence with the course into which they are placed. Students may not receive credit for a course prior in the sequence to the one into which they are placed, nor may students receive credit for a course prior in the sequence to one that has already been completed satisfactorily.

Alternative Means of Fulfillment

Students admitted into the Honors College are required to take the 8-hour Freshman Honors Colloquium, regardless of ACT/SAT placement scores. Satisfactory completion of this 8-hour sequence also constitutes fulfillment of the College English requirement.

Students may earn College English credit through the subject examination in English Composition of the College Level Examination Program (CLEP); students who earn credit equivalent to ENG 10001 through this program are then placed into ENG 10002. Credit may also be earned through the university's Credit-By-Examination (CBE) Program, described elsewhere in this *Catalog*.

*Throughout this *Catalog*, the term *foreign language* includes American Sign Language.

International Students

Students whose native language is other than English are required to complete the special sequence ENG 10100, Introduction to College English for Foreign Students; ENG 10101, College English I for Foreign Students; and ENG 10002, College English II (the concluding course in the basic College English sequence).

Entering international students must register for ENG 10100. During the first week of the semester, the Michigan Test of English Language Proficiency will be administered and the results compared to the students' scores on the Test of English as a Foreign Language (TOEFL). Based on these scores, the students will either remain in ENG 10100 or be immediately advanced to ENG 10101.

Students who are placed into ENG 10100 must receive passing grades both in the course and on a final test of language competency before being eligible to enroll in ENG 10101. Upon satisfactory completion of ENG 10101, the students will proceed to ENG 10002 in order to complete the College English requirement.

Progress Toward Fulfillment

Because College English involves basic skills that are essential to academic progress and academic success, students must begin their College English coursework in the first semester of full-time enrollment and continue taking College English until the full requirement is completed. Entering transfer students with junior standing must undertake outstanding portions of the requirement within two semesters.

Mathematics and Logic

Students pursuing the B.A. or B.S. in the College of Arts and Sciences must satisfactorily complete a minimum of 3 hours in mathematics or logic. Entering freshmen are placed in mathematics coursework based on a mathematics placement test, their ACT math scores, and their mathematics coursework in high school. The courses that may be taken to fulfill this requirement are listed under the individual degree requirements. In addition, many programs require that students complete a sequence of courses in mathematics. Because the various introductory mathematics sequences overlap somewhat in content, and because specific programs require specific sequences, students should carefully examine their program requirements before enrolling in mathematics. Arts and Sciences students are referred to the college general requirements for restrictions on the applicability of MATH 14001 and 14002 toward LER credit.

Students with previous credit in mathematics earned at another institution, through CLEP, or through the Advanced Placement Program, may enter the next higher mathematics course in the sequence required in their majors.

In some cases, students may be given a mathematics placement examination on entering the university. Students may not receive credit for a prior course in any mathematics sequence to one which has already been completed satisfactorily.

Further information about appropriate entry courses may be obtained from the Department of Mathematics in Room 233 in the Mathematics and Computer Science building, (330) 672-2430.

Foreign Language

The College of Arts and Sciences' foreign language requirement is stated in terms of *proficiency*. Students seeking the B.A. degree must demonstrate proficiency equivalent to Intermediate II (up to 14 hours of coursework) in one foreign language; students seeking the B.S. degree must demonstrate proficiency equivalent to Elementary II (up to 8 hours of coursework) in one foreign language. Successful completion of a course at a higher level than the minimum required will also satisfy the requirement.

In general, students may elect any foreign language taught through the Department of Modern and Classical Language Studies or the Department of Pan-African Studies. However, certain majors, fields of concentration, and minors require specific languages or limit the languages from which students may choose. In addition, students who plan to pursue graduate study may need particular languages for that study. In such cases, the students should seek the advice of the appropriate department before selecting a language.

Placement and Credit

Students arrive at Kent State with varying types of foreign language experience: Some come from other countries and are fluent in their native language, others have grown up in America with a first language other than English, but most have learned a second language in a formal classroom setting.* All students should begin foreign language study at the appropriate level in their first semester and continue with the appropriate sequence of courses in consecutive semesters and/or summer sessions. Those who qualify to begin at an advanced level can complete the requirement in less time and apply the remaining hours to their major, a minor or one or more electives.

*For definition of the terms "native language" and "first language," above, see Page 31, under Foreign Languages.

Students may qualify for advanced placement with or without college credit in any of the following ways: CLEP examination, Credit-By-Examination, proficiency examination or a placement test. The CLEP and the university's Credit-By-Examination program, available in certain languages, do award credit that will count toward fulfillment of the language requirement and as hours toward graduation.

Proficiency tests administered by the Center for International and Comparative Programs provide no credit and are part of the requirements for the international relations major.

Placement tests are regularly available in French, German, Russian and Spanish. Administered by Academic Testing Services, these tests do not award credit but merely establish the level at which a student should begin study. By achieving an appropriate score, however, a student may fulfill the University LER, Category II and degree program requirements.

For students who do not receive placement or credit through testing, proficiency level and placement can be established through appropriate documentation of school coursework in that language or in the home/ foreign country. As a general rule, a year of high school study is roughly equivalent to a semester of college-level study of a foreign language. Whether through tests or other documentation, placement does *not* award academic credit; the credit hours which have been exempted by such placement are still required for graduation and may be applied to coursework in the student's major, minor or elective courses.

Additional information regarding foreign language placement and study can be obtained from the department offering that language.

Students With a Native or First Language Other Than English*
A student with a native language other than English may fulfill the language requirement by demonstrating the appropriate level of proficiency on a proficiency test in his or her own language; in the case of languages for which no examiner or examination is available, proficiency can be established through documentation of previous school work in the native land and language. The student must still meet the College English requirement.

A student with a native language other than English may not register for, or receive credit in, coursework on the elementary or intermediate level in that language or a closely related one as determined by the chairperson of the appropriate department.

Students with a first (not native) language other than English may be permitted to enroll in, and receive credit for, coursework on the elementary and/or intermediate level. Permission will be granted on a case-by-case basis by the chairperson of the appropriate department after evaluation of the student's skills in that language.

*For definition of the terms "native language" and "first language," above, see Page 31, under Foreign Languages.

Progress Toward Fulfillment

Arts and Sciences students are required to begin meeting the foreign language requirement by their third semester of full-time enrollment (that is, no later than upon completing 30 semester hours) and are required to continue to enroll for foreign language courses until the requirement has been completed. Students who transfer to the College of Arts and Sciences from other universities or from other programs at Kent State University with sophomore status are required to begin meeting the foreign language requirement by their second semester of full-time enrollment in the college and must continue to enroll for foreign language courses until the requirement has been completed. Students who fail to meet these stipulations risk unnecessary delays in the completion of their degree programs. The stipulation that Arts and Sciences students begin meeting the foreign

language requirement by their third semester of full-time study applies not only to students with declared majors but also to undeclared students. This includes those students seeking admission to selective programs in other colleges who do not achieve admission to the selective program at the time they achieve sophomore status.

LIMITATIONS ON APPLICABILITY OF CREDIT

The following policies impose restrictions on the applicability of credit earned in certain categories of coursework toward meeting graduation requirements for Arts and Sciences students. Hours restricted under these policies will not be counted toward the 121 total hour or 42 upper-division hour graduation requirements.

Foreign Language Study

Students with a native language* other than English may not register for, or receive credit in, coursework on the elementary or intermediate level in that language or in a closely related language as determined by the chairperson of the appropriate department. Students with a first (not native) language* other than English may be permitted to enroll in, and receive credit for, coursework on the elementary and/or intermediate level. Permission will be granted on a case-by-case basis by the chairperson of the appropriate department after evaluation of the student's skills in that language.

*For definition of the terms "native language" and "first language," above, see Page 31, under Foreign Languages.

Pass-Fail Option

A maximum of 12 hours of pass-fail credit (Y and Z grades) may be attempted. Courses graded S/U are not counted in this 12-hour maximum. All courses listed under the university's LERs or College General Requirements are excluded from the pass-fail option. Courses in the major, field of concentration and minor are also excluded. Only free electives—courses not used to satisfy any specific requirement—may be taken on a pass-fail basis. See the Pass-Fail Policy on Page 70 of this *Catalog*.

Variable Title Courses

Students may earn credit toward graduation through special topics courses, Honors colloquia, seminars and other variable title courses. Such coursework may not be applied toward the general requirements of the college's degree programs. Variable title coursework may not be counted toward major, field of concentration or minor program requirements unless specifically and formally allowed by the academic unit responsible for the program.

Physical Education and ROTC

No more than four hours of physical education activity (PEB) courses, lower-division ROTC (ASTU and MSCI) coursework, or of the two combined may be counted toward the 121 hours required for graduation. A

maximum of 12 upper-division hours in ROTC (ASTU and MSCI) may be counted toward the 121 hours required for graduation by students actively pursuing the university's Army and Air Force ROTC programs. These 12 upper-division hours may be counted in addition to the four lower-division hours permitted for ROTC/PEB courses.

Applied Music and Music Ensembles

A maximum of 8 hours of credit for courses in Applied Music and Music Ensembles (MUS courses with a second digit of 5, 6 or 7) combined may be counted toward the 121 total hour or 42 upper-division hour graduation requirement. There is no limit on other music coursework.

Nontraditional Coursework

A maximum of 16 total hours of coursework from the following categories may be applied toward the 121 total hour and 42 upper-division-hour graduation requirements. Moreover, no more than 8 hours of workshop credit may be applied toward this 16-hour limit. Hours earned in HONR 40099, Senior Honors Thesis/Project, are not included within this 16-hour limit.

· Internships, Field Placements, Practica

Credit earned in internships, field placements, practica or courses with a similar experiential/applied nature is included within this 16-hour limitation. Such coursework may not be applied toward the General Requirements of the college's degree programs. The year of clinical training required in the Medical Technology program, similar training in other three-plus-one programs, student teaching and other experiential components of the education minor, and study abroad programs are exempted from this limitation.

· Individual Study

Credit earned in individual study and research coursework is included within this 16-hour limitation. Individual study and research credits may not be applied to major, field of concentration or minor program requirements unless specifically and formally allowed by the department responsible for the major, field of concentration or minor.

Workshops

Credit earned in workshop courses (course numbers ending in XXX93) is limited to no more than 8 hours and is included within this 16-hour limitation. Workshop credit may not be applied to major, field of concentration or minor program requirements unless specifically and formally allowed by the academic unit responsible for the program.

GENERAL GRADUATION REQUIREMENTS

1. Total Hour Requirement

A minimum of 121 hours of applicable coursework must be successfully completed to qualify for graduation. Credit earned in certain developmental coursework (MATH 10004, US 10003 and US 10006) and hours in excess of the restrictions listed above

under "Limitations on Applicability of Credit" do not count toward the 121 required hours. Depending upon the students' major and high school preparation, students may need to complete additional hours of prerequisite coursework. There are a limited num ber of major programs in the College of Arts and Sciences that require more than 121 hours for completion. Further information on these majors can be obtained in the college office.

Upper-Division Hour Requirement

The College requires a minimum of 42 hours of upper-division coursework (coursework at the 30000 and 40000 level). Transfer coursework is considered upper-division only if the coursework was taken as upper-division at the transfer institution. Community college coursework is classified as lowerdivision.

College General Requirements

The General Requirements of the college include the university Liberal Education and Diversity Requirements as well as any conditional coursework prescribed upon admission, University Orientation, and additional coursework in mathematics/logic, foreign language, social sciences and basic sciences. Detailed discussions of the General Requirements for each of the degree programs offered in the college are listed below in the section "Degree Program Requirements."

Major/Minor Requirements

The particular requirements of all of the major and minor programs offered in the College of Arts and Sciences are described in detail in the sections "Degree Program Requirements" and "Minor Program Requirements." Requirements for minors offered by the other colleges are described in the appropriate college's section of the Catalog.

5. Writing-Intensive Requirement Refer to Pages 64 and 84-85 of this Catalog for specific information on the Writing-Intensive Course Requirement.

Grade Point Average Requirements

Students must achieve a cumulative GPA of at least 2.00 in all coursework taken at Kent State University including Regional Campus coursework. Students must also achieve a 2.00 cumulative average in the fields of specialization, including majors, fields of concentration and minors. Some minors offered by other colleges may stipulate a higher cumulative average requirement.

Students may need to take additional coursework beyond the specified requirements in the major or field of specialization in order to raise the cumulative average in the major or field of concentration to 2.00. In such a case, the course(s) to be

used for this purpose must be selected in consultation with the faculty adviser and approved by the dean prior to registration for the course(s). It is generally required that such additional coursework be taken at the upper-division level.

Residence Requirement

The university's residence requirement may be met by completing the first 91 semester credit hours or the final 30 semester credit hours at Kent State University. Summer and junior year study abroad may be taken as part of the 91 credit hours. Students must complete at least three upper-division courses in the major at Kent State on a graded basis (A-F). If a minor is elected, at least two upper-division courses in the minor must be completed at the university on a graded basis.

Mandatory Outcomes Assessment

In addition to the other General Requirements of the college, candidates for an undergraduate degree in the College of Arts and Sciences are required, as a condition of graduation, to participate in an outcomes assessment. These outcomes assessments are conducted by each undergraduate degree program in the College of Arts and Sciences.

DEGREE PROGRAM REQUIREMENTS BACHELOR OF ARTS

General Requirements

The university's Liberal Education and Diversity Requirements (see Pages 77-83) are included in the College of Arts and Sciences' General Requirements. Students should consult the college office if they have questions concerning the applicability of specific coursework to the General Requirements. None of the courses listed as part of the college's General Requirements may be taken pass-fail.

For the purposes of the General Requirements, students' major departments are defined as the departments that house the major, field of concentration or interdisciplinary program. For students in double major and dual degree programs, the restrictions on the applicability of major coursework toward the General Requirements are applied to only one of their majors (generally the primary major).

The following General Requirements apply to all B.A. degree programs in the College of Arts and Sciences.

ENG 10001 College English I (3)

10002 College English II (3)

Placement by ACT/SAT English composition scores; students may be required to take ENG 10000.

Mathematics, Logic and Foreign Languages One foreign language or American Sign Language or

	equivalent in proficiency14		D21405, The Roman Achievement (3)
	The requirement may be fulfilled by:	ENC	G 21054, Intro. to Shakespeare (3)
,	A. Passing the first four semesters of any foreign language or		22071, Great Books I (3)
	American Sign Language (students who receive advanced place-		22072, Great Books II (3)
	ment will meet the requirement by passing the fourth semester		22073, Major Modern Writers (3)
	of a language).	HIS	T D11050, History of Civilization I (3)
1	B. Placement in courses beyond intermediate II level on the place-		D11051, History of Civilization II (3)
	ment examination administered by Academic Testing Services.		D*12070, History of the U.S.: The Formative Period (3)
	Consult with the language departments for further information.		D*12071, History of the U.S.: The Modern Period (3)
(C. Passing a course beyond intermediate II level.	PAS	· · · · · · · · · · · · · · · · · · ·
	D. Receiving credit for intermediate II or beyond from CBE, CLEP		D*23002, Black Experience II: 1865 to Present (3)
	or transfer.	PHI	L D11001, Intro. to Philosophy (3)
Note	te: The requirement may be met with fewer than 14 hours if stu-		D21001, Intro. to Ethics (3)
	dents receive advanced placement. In this case, students are		D21020, Comp. Religious Thought I (3)
	required to complete the remaining hours with "free" electives.		D21021, Comp. Religious Thought II (3)
	Mathematics or Logic	Hur	manities: Fine and Professional Arts
	A student must pass one of the courses listed below or establish		MM15000, Theory and Practice of Oral Discourse (3)
	proficiency.	0.0	D*26000, Criticism of Public Discourse (3)
	MATH 10041, Elementary Probability and Statistics (3)	JM	
	11008, Explorations in Modern Mathematics (3)		e Arts: Fine and Professional Arts
	11011, College Algebra (4)		CH 10001, Understanding Architecture (3)
	11012, Intuitive Calculus (3)	71100	10011, Survey of Architectural History I (3)
	12001, Algebra and Trigonometry (4)		10012, Survey of Architectural History II (3)
	12002, Analytic Geometry and Calculus I (5)	AR ⁻	
	PHIL 11009, Principles of Thinking (3)	AIX	22006, Art History I: Ancient and Medieval Art (3)
	21002, Intro. to Formal Logic (3)		22007, Art History II: Renaissance to Modern Art (3)
	31045, Formal Logic (3)	DAI	D22020, Art of Africa, Oceania, and the Americas (3)
	Restrictions:	DAI	
	Since MATH 12001 covers the same content as 11011 plus	MU	ů ,
	11022, credit is not allowed for both 12001 and 11011 or for	TUE	D22121, Music as a World Phenomenon (3)
	both 12001 and 11022.		A D11000, The Art of the Theatre (3)
	Note: MATH 14001 and 14002 may be used to meet the require-		ial Sciences
	ment provided both courses were completed while the student		quired:
	was enrolled in another college.		ursework must be selected from at least two curricular areas
II.	Humanities and Fine Arts		n., ANTH, ECON, etc.). Twelve hours are required in the Social
	Required:		ences. At least 9 hours must be selected from the courses
	All 9 required hours in the Humanities and Fine Arts must be select-		ed below. The remaining 3 hours may optionally be selected
	ed from the courses listed below. At least one course must be		n courses in JUS, ECON, GEOG, POL, PSYC, SOC and (cultur-
	selected from Humanities: Arts and Sciences. At least one course	,	ANTH or from selected courses in CACM and PAS.
	must be selected from Fine Arts: Fine and Professional Arts.	Res	strictions:
	Restrictions:	No	coursework from the major department may be counted toward
	No coursework from the major department may be counted	the	9 hours that must be selected from the courses listed below.
	toward the Humanities and Fine Arts.	Not	e: Any course marked with a "D" that is taken to satisfy the
	Note: Any course marked with a "D" that is taken to satisfy the	Soc	cial Sciences will also satisfy a Diversity requirement provided
	Humanities and Fine Arts will also satisfy a Diversity requirement	thai	t course is not in the student's major department. Diversity
	provided that course is not in the major department. Diversity	cou	rses marked additionally with an asterisk (*) have a domes-
	courses marked additionally with an asterisk (*) have a domestic	tics	perspective.
	perspective.	AN	ΓΗ D18210, Intro. to Cultural Anthropology (3)
	Humanities: Arts and Sciences		18420, Prehistoric Archaeology (3)
	CLAS D21404, The Greek Achievement (3)	ECC	DN 22060, Principles of Microeconomics (3)

		22061, Principles of Macroeconomics (3)
	GEOG	10160, Intro. to Geography (3)
D17063, World Geography (3)		D17063, World Geography (3)
		17064, Geography of U.S. and Canada (3)
	JUS	26704, Law and Society (3)
	POL	D10004, Political Institutions (3)
		D*10100, American Politics (3)
		D*10301, Diversity in American Public Policy (3)
		D10500, World Politics (3)
	PSYC	11762, General Psychology (3)
		20651, Child Psychology (3)
		21211, Psychology of Adjustment (3)
		D*22221, Multicultural Psychology (3)
	SOC	D*12050, Intro. to Sociology (3)
		D22778, Social Problems (3)
۷.		Sciences
	Requi	
		ours are required in the Basic Sciences. At least 6 hours
		ne selected from the courses listed below or from begin-
	U	major sequence" courses in (biological) ANTH (ANTH
), BSCI (BSCI 10110, 10120), CHEM (CHEM 10060, , 10062, 10063, 10960, 10961) and PHY (PHY 23101,
). The remaining 3 hours may optionally be selected from
		courses in BSCI, CHEM, GEOL and PHY.
		ctions:
		re than two courses from any curricular area (not counting
		tories) may be counted toward the Basic Sciences.
		rsework from the major department may be counted toward
		nours that must be selected from the courses listed below.
	Credit	toward the Basic Sciences is not allowed for:
	• both t	he PSCI 11660 series and either the CHEM 10050 series,
	the Ch	IEM 10060 series or the PHY 13001 series.
	• both t	he CHEM 10050 series and the CHEM 10060 series.
	• more	than one of the PHY 13001, PHY 13011 or PHY 23101
	series.	
	• comb	inations of BSCI 10001, the BSCI 10110 series and/or the
	BSCI 2	20020 series.
	ANTH	18630, Human Evolution (3)
	BSCI	10001, Human Biology (3)
		10002, Ecology, Evolution and Society (3)
		20020, Biological Structure and Function (5)
	CHEN	l 10030, Chemistry in Our World (3)
		10050, Fundamentals of Chemistry (3)
		10052, Intro. to Organic Chemistry (2)
		10053, Organic and Inorganic Lab (1)
		10054, General and Elementary Organic Chemistry (5)
	CS	10051, Introduction to Computer Science (4)
	GEOL	
		11041 Farth Dynamics Lab (1)

11042, Earth History (3)

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11043, Earth History Lab (1)
            21062, Environmental Geology (3)
            21080, Oceanography (3)
     PHY 11030, Seven Ideas that Shook the Universe (3)
            13001, General College Physics I (5)
            13002, General College Physics II (5)
            13011, College Physics I (3)
            13012, College Physics II (3)
            21430, Frontiers in Astronomy (3)
     PSCI 11660, Physical Science (3)
            11661, Physical Science (3)
Required: two courses
      The selection of these two courses is subject to the following
     constraints.
      1.) One course must be selected from the courses marked with a
      "D" in section III or IV above. This course may not be from the
     major department.
     2.) The second course may be selected from either the courses
     marked with a "D" in section III or IV above or from the full list of
     diversity courses on Pages 81-83. This course may be from the
     major department, but if so it might not apply toward the
     Humanities, Fine Arts or Social Sciences.
     3.) One of the above two courses must address domestic (U.S.)
     issues. These courses are marked with an asterisk (*). The other
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The program requirements for majors in the College of Arts and Sciences are listed below:

course must address global issues. These courses are not

marked with an asterisk (*).

*See Page 102 for lists of departmental and interdisciplinary majors.

American Studies

(Dean's Office, College of Arts and Sciences, 105 Bowman Hall)

Drawing on coursework in history, literature, the arts and the social sciences, the American studies major offers a broad perspective for students seeking to understand American culture. This program takes an interdisciplinary approach to American life and thought while permitting considerable emphasis on a particular field of analysis chosen by the student.

A graduate with an American studies major and a minor in education may be licensed to teach in the Ohio Public School System. Students with degrees in American studies may pursue

instand	ce, students would be well advised to pursue a second	
major in the related field.		
AMST	10001, Intro. to American Studies	
	40197, Senior Colloquium	
	Choose from History:	
HIST	31070, History of American Business Enterprise (3)	
	31078, African American History (3)	
	41056, History of Colonial America, 1492-1714 (3)	
	41057, 18th-Century America, 1714-1789 (3)	
	41069, Recent America, The United States,	
	1929-Present (3)	
	41070, American Social and Intellectual	
	History, 1790-1876 (3)	
	41071, American Social and Intellectual	
	History, 1876-Present (3)	
	41074, American Economic History (3)	
	41079, History of the Immigrant in America (3)	
	41083, U.S. Foreign Relations through World War I (3)	
	41084, U.S. Foreign Relations from 1920 (3)	
	Choose from English:	
ENG	33001, U.S. Literature to 1865 (3)	
	33002, U.S. Literature from 1865-1945 (3)	
	33003, U.S. Literature from 1945-Present (3)	
	33011, African American Literature (3)	
	34021, Women's Literature (3)	
	36001, Literary Criticism (3)	
	39695, Topics in Ethnic Literature of the U.S. (3)	
	Choose from Social Sciences:	
ANTH	18210, Intro. to Cultural Anth. (3)	
	48270, Native Peoples of North America (3)	
ECON	32083, The Economics of Poverty (3)	
GEOG	17064, Geography of the United States and Canada (3)	
	42064, Historical Geography of the	
	United States and Canada (3)	
POL	40112, Politics and the Mass Media (3)	
	40116, Public Opinion and Political Behavior (3)	
	40510, U.S. Foreign Policy (3)	
	Choose from Humanities:	
ART	42056, American Art: 1607-1860 (3)	
	42057, American Art and Architecture: 1860-1940 (3)	
	42058, American Film, Photography, Art and Ideas (3)	
A&S	30000, Colloquium in Women's Studies (3)	
JMC	40008, History of American Mass Communication (3)	
MUS	42131, America's Music (3)	
	42161, History of Jazz (3)	
PAS	33110, The Black Woman: Historical Perspectives (3)	
	35100, African American Social, Political and	
	Economic Systems (3)	

graduate work in American studies or a related field. In the latter

Anthropology

(see also B.S. program)

ANTH 18210, Intro. to Cultural Anthropology	. 3
18420, Prehistoric Archaeology	. 3
38630, Principles of Biological Anthropology	3
plus 21 additional ANTH hours	21
of which 12 must be upper-division electives	
Choose one from:	3
ANTH 38050, Theory in Cultural Anthropology (3)	
48212, Kinship and Social Organization (3)	
TOTAL	33

(Center for Applied Conflict Management, Department of Political Science, 302 Bowman Hall)

Applied Conflict Management

The major in applied conflict management is offered through the Center for Applied Conflict Management in cooperation with the College of Arts and Sciences. Upon satisfying the college's General Requirements and the major requirements, students receive the Bachelor of Arts degree from the College of Arts and Sciences.

The Center for Applied Conflict Management offers an undergraduate major that prepares students for careers or graduate study in the field of conflict management and dispute resolution. Core courses offered by the department give students a solid background in the theory and skills of conflict management while allowing the flexibility to concentrate in a particular area of professional interest. The field of conflict management is interdisciplinary in focus and draws on a base of knowledge and scholarly research in the social sciences, humanities, ethics, education and law. Students are provided with opportunities to utilize and enhance their knowledge of conflict management as they engage in research in the field or work as interns with professionals in the courts, schools, businesses, government and human services.

Core courses:

CACM 11001, Introduction to Conflict Management $\dots \dots 3$
11002, Solving Problems vs. Transforming Conflicts 3
21010, Cross-Cultural Conflict Management3
22020, Conflict Theory3
35092, Internship in Conflict Management 3-12
37070, Nonviolence: Theory and Practice3
43030, Mediation: Theory and Training3
49091, Seminar in Conflict Management
Electives:9-18

An additional 9-18 hours from one of the following five concentration areas, chosen in consultation with an adviser from CACM:

- 1. Community Education and Training
- 2. Human Needs and Human Services
- 3. Public Policy
- 4. Social and Political Change
- 5. General Concentration in Conflict Management

Advisory sheets listing recommended courses for each of these concentrations are available from CACM advisers.

CACM 32020, Strategic Planning (3)

34040, Negotiation (3)

35050, Public Sector Dispute Resolution (3)

36060, Conflict Analysis & Intervention Ethics (3)

TOTAL 48

At least 24 hours taken for the major must be upper-division.

Biology

(see also B.S. program)

Also see "Note" under "Biological Sciences" entry in "Courses of Study" section of this Catalog.

BSCI	10110, Biological Diversity4
	10120, Biological Foundations
	20140, Cell Biology
	30156, Elements of Genetics
	30360, General Ecology
	40163, Organic Evolution
MATH	12001. Algebra and Trigonometry4

CHEM	1 10060, 10061, 10062, 10063,		
	General Chem. I, II and Labs	10	
	Choose one from:		
BSCI	20275, Local Flora (4)		
	20560, Invertebrate Zoology (4)		
	30171, General Microbiology (4)		
	Choose one from:		
BSCI	30267, Plant Physiology (4)		
	40430, General Physiology (4)		
		TOTAL	44

Chemistry

(see also B.S. program)

CHEM 30475, 30476, Organic Chemistry Lab 4
30100, Aqueous Equilibrium 2
30101, Quantitative Analysis
30102, Solution Chemistry Lab 2
30284, Intro. Biological Chem 4
40361, Intermediate Inorganic Chem 2
40567, Basic Concepts of Physical Chem 4
PHY 13001, 13002, General College Physics I, II 10
MATH 12001, Algebra and Trigonometry
12002, Analytic Geometry and Calculus I 5
Choose one from:
CHEM 30481, 30482, Organic Chemistry (6)
20481, 20482, Basic Organic Chemistry (6)
Choose Group One or Group Two:
Group One
CHEM 10060, 10061, General Chemistry I, II (4 each)
10062, 10063, Gen. Chem. I, II Labs (1 each)
Group Two
CHEM 10960, 10961, Honors Gen. Chemistry (5 each)

TOTAL

55

Classics

(Jennifer Larson, Coordinator, 304-B Satterfield Hall)

Offered through the Department of Modern and Classical Language Studies, the major in classics is a comprehensive program that combines courses in Greek and Latin languages and literatures, with classics courses in English translation. It affords students a broad background in the language, literature, history, art, architecture and culture of the ancient classical world. By carefully choosing electives, classics majors may prepare for graduate work in classics, history or philosophy.

Students wishing a major in classics must choose a program with an emphasis in either Greek or Latin.

	Latin	
LAT	16201, 16202, Elem. Latin I, II	8
	26201, 26202, Inter. Latin I, II	6
GRE	14201, 14202, Elem. Greek I, II	8
Choos	se one of:	
LAT	36170, Cicero (3)	
	36171, Vergil (3)	
		25
	Greek	
	Crook	
GRE	14201, 14202, Elementary Greek I, II	8
	24201, 24202, Intermediate Classical	
	Greek I and II: Readings	6
LAT	16201, 16202, Elem. Latin I, II	
Choos	se one of:	
GRE	34370, Plato Apology and Phaedo (3)	
	34371, Homer (3)	
	•	25
Both 6	emphases:	
	Select 18 hours from the following:	18
CLAS	21404, The Greek Achievement (3)	
	21405, The Roman Achievement (3)	
	41301, Classical Mythology (3)	
	41401, Greek Archaeology and Art (3)	
	41402, Roman Archaeology and Art (3)	
	41503, Greek Literature in Translation (3)	
	41097, Colloquium in Classics (3)	
HIST	41003, History of Ancient Greece (3)	
CLAS/	HIST 41006, Roman History (3)	
		TOTAL 4
Flecti	ves from the following courses are strong	lv recommended:
	18420, Intro. to Archaeology (3)	,
	38480, Archaeological Analysis (3)	
ART	22006, 22007, Art History I, II (3 each)	
HIST	11050, History of Civilization I (3)	
	41004, Hellenic Contributions to Western	Civilization (3)
PHIL	31001, Ancient Greek Philosophy (3)	
	onal courses in Latin or Greek literature.	

Earth Science

(Department of Geology)

The earth science program, taken in conjunction with a minor in education, is designed to prepare students to teach earth science at the junior or senior high school level. The minor in education is required for licensure for high school teaching in this field.

Earth Science Core:

GEOL	11040, Earth Dynamics
	11041, Earth Dynamics Lab
	11042, Earth History
	11043, Earth History Lab
	21080, Oceanography
	23063, Mineralogy 4
	31070, Petrology
	32066, Geomorphology 4
	34061, Invertebrate Paleontology 4
Plus 3	elective hours
GEOG	31062, Fundamentals of Meteorology
	31064, Principles of Climatology $\dots \dots 3$
	41073, Conservation—Natural Resources $\ldots \ldots 3$
	41082, Geography of Soils $\dots \dots 3$
Plus 3	upper-division elective hours
in geol	ogy or geography (GIS recommended).
CHEM	10060, General Chemistry I 4
	10062, General Chemistry Lab
MATH	12001, Algebra and Trigonometry \hdots 4
PHY	24001, Astronomy $\dots 3$
	<i>Choose one from:</i>
BSCI	10120, Biological Foundations (4)
	20560, Invertebrate Zoology (4)
	<i>Choose one from:</i>
PHY	13001, General College Physics I (5)
	23101, General University Physics (5)

TOTAL

66

Economics

ECON	22060, Principles of Microeconomics
	22061, Principles of Macroeconomics 3
	32040, Intermed. Microeconomic Theory
	and Applications
	32041, Intermed. Macroeconomic Theory and Policy $\boldsymbol{3}$
M&IS	24056, Fundamentals of Business Statistics
	34056, Intermediate Statistics
Elective	es15

Fifteen (15) hours of electives from 30000-40000 level economics courses, with the advice of the undergraduate adviser in the Department of Economics and the approval of the Department of Economics chairperson.

Choose one of the following sequences: 7-9

MATH 11011, College Algebra (4)

11012, Intuitive Calculus (3)

or

Ele Di 12001, Algebra and Trigonometry (4)

12002, Analytic Geometry and Calculus (5)

TOTAL 40-42

Note: Students interested in pursuing graduate study in economics are encouraged to take ECON 42040 (Econometrics), MATH 12002 and 12003 (Calculus I and II), and other mathematics and statistics courses. Interested students with the appropriate prerequisites may also want to substitute MATH 40011 and 40012 for M&IS 24056 and 34056, with departmental approval.

A major in economics is also offered in the College of Business Administration.

English

re	course	s (required)
	ENG	25001, 25002, Literature in English I, II 6
		30001, Introduction to English Studies
ect	ives .	
str	ibution	requirements
	Histor	ical courses:
		Choose two courses
	ENG	33001, American Literature to 1865 (3)
		33002, American Literature from 1865 to 1945 (3)
		33003, American Literature from 1945 to the Present (3)
		34001, British Literature to 1500 (3)
		34002, British Literature from 1500 to 1660 (3)
		34003, British Literature from 1660 to 1800 (3)
		34004, British Literature from 1800 to 1900 (3)
		34005, British and Irish Literature from 1900 - Present (3)
		34055, Shakespeare (3)
		34065, Chaucer (3)
		34095, Topics: Major Author Studies (3)
		39095 Topics in Literary History (3)
	Genre	Studies, Cultural Studies, Literary Theory:
		Choose two courses
	ENG	33011, African American Literature (3)
		34011, World Literature in English (3)
		34021, Women's Literature (3)
		34031, Short Story (3)

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35101, Literature and other Disciplines (3)
           35201, The Bible as Literature (3)
           36001, Literary Criticism (3)
           39195, Topics in Drama (3)
           39295, Topics in Poetry (3)
           39395, Topics in Fiction (3)
           39995, Topics in Cultural Studies (3)
     Writing and Language Studies
           No more than one lower-division course will count toward the major.
           20001, Business Writing (3)
           20002, Introduction to Technical Writing (3)
           20003, Intermediate Exposition (3)
           20021, Introduction to Creative Writing (3)
           30064, Argumentative Prose (3)
           30065, Expository Prose (3)
           30067, Writer's Workshop in Fiction I (3)
           30068, Writer's Workshop in Fiction II (3)
           30069, Writer's Workshop in Poetry I (3)
           30070, Writer's Workshop in Poetry II (3)
           31001, Fund. of English Grammar (3)
           31002, History of English Language (3)
           31003, Introduction to Linguistics (3)
           39895, Topics in Rhetoric, Composition and Writing (3)
49091, Senior Seminar (3)
                                               TOTAL
                                                               39
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Students must complete a minimum of 39 hours. Of those hours, no more than 12 may be lower-division courses. Prerequisites for any course numbered 33001 or above are 1) completion of 25001 or 25002 plus 30001 or 2) permission of the instructor.

Ethnic Heritage

(David Brenner, Director, 314 Satterfield Hall)

The ethnic heritage major is designed to examine the role played by ethnic groups in American society and the influences upon those groups. It seeks to engender an understanding of ethnicity in the development of the distinctive American national character and of the background, experiences and forces acting upon ethnic groups and their communities.

Students pursuing the ethnic heritage major may emphasize British, German, Hellenic, Jewish, Lithuanian, Romanian or Russian studies in their programs. These areas of emphasis are also available as interdisciplinary minors, described elsewhere in this Catalog. The curriculum of the ethnic heritage major is divided into five curricular cores, some of the coursework required in these cores may also be counted toward the college's General Requirements.

Each year a \$1,000 Latvian Scholarship will be awarded to a student who is proficient in the Latvian language. For more information, contact the Student Financial Aid Office, Michael Schwartz Center.

Core I	(Methods/Perspectives)
SOC	12050, Intro. to Sociology
ANTH	18210, Intro. to Cultural Anthropology
	Choose one from:
SOC	32570, Inequality in Societies (3)
	32569, Minorities in America (3)
	32673, Urban Processes and Life Styles (3)
	<i>Choose one from:</i>
ANTH	38210, Culture and Social Relations (3)
	38240, Culture and Personality (3)
	38260, Patterns of Peasant Life (3)
	Choose two from:
HIST	12071, History of the United States:
	The Modern Period (3)
	31061, History of Ohio (3)
	41068, U.S.—1900-1929 (3)
	41069, U.S.—1929-Present (3)
Core I	l (Appropriate Foreign Language)* 14
Core II	II (Applications/Expressions)
HIST	41079, Immigrant in America
ENG	21001, Intro. to Ethnic Literature of the U.S
Approp	oriate upper-division course in literature or philosophy . 3-4
	Choose one from:
GEOG	32061, Cultural Geography (3)
	36065, Cities and Urbanization (3)
POL	40116, Public Opinion and Political Behavior (3)
Core I	V (Studies Emphasis Area)**
Core V	(Synthesis)
	Choose either:
Under	graduate seminar, colloquium or special topics course (2-3)
offered	d by a humanities or social sciences department plus 3-
hour II	ndividual Investigation
	or
Acader	mic Term of Study Abroad (3-5)
(or app	proved field experience/practicum in U.S.), producing an
individ	lual investigation project of 3-5 hours.
	TOTAL 67-72

French

(see also B.S./Translation Program)

Students interested in teacher licensure must contact the departmental pedagogy coordinator for advising to complete the required education minor listed under "Minors in other Colleges."

Any portion of the 14-hour basic course sequence may be waived by demonstrated proficiency; however, under no circum stances may the coursework taken toward the major drop below 30 credit hours.

	TOTAL
Frenc	ch electives at the 40000 level
Frenc	ch culture and literature courses at the 30000-40000 level . 6
	33421, French Civilization
	33337, Intro. to French Novel
	33336, Intro. to French Poetry
	33335, Intro. to French Theatre
	33215, French Phonetics and Diction
	33212, French Composition
	33211, French Conversation
	23201, 23202, Intermediate French I, II 6
FR	13201, 13202, Elementary French I, II

Geography

Core Requirements

GEOG D17063, World Geography	
17064, Geography of the U.S. and Canada 3	
21062, Physical Geography	
39002, Statistical Methods in Geography3	
39161, Introduction to Cartography 3	
39162, Introduction to Cartography Lab	
40191, Seminar in Geography	
One upper-division regional course	
plus 21 hours in one of the three concentrations	
TOTAL	43

Environmental Geography

31064, Principles of Climatology (3)

^{*}Determined by choice of ethnic studies emphasis.

^{**}See available "Emphasis" programs under Minors: British studies, German studies, Hellenic studies, Jewish studies, Lithuanian studies, Romanian studies, Russian studies.

41050, Polar & Alpine Environments (3)	Plus the following courses
41062, Advanced Physical Geography (3)	One course from Social Geography concentration
41073, Conservation of Natural Resources (3)	One course from Environmental Geography concentration3
41074, Resource Geography (3)	One Course from Social or Environmental concentration 3
41082, Geography of Soils (3)	
41265, Urban Climatology (3)	Geology
Other appropriate courses may also count in this concentration.	
Plus the following courses	(see also B.S. program)
GEOG 49080, Advanced Geographical Information Systems3	
One other course from Geographical Information Sciences 3	GEOL 11040, Earth Dynamics
One course from Social Geography concentration	11041, Earth Dynamics Lab
	11042, Earth History
Social Geography	11043, Earth History Lab
	23063, Mineralogy 4
Choose 12 hours	31070, Petrology 4
At least one of the following courses must be at the 40000 level.	31080, Structural Geology 4
GEOG 31070, Population and Environment (3)	32066, Geomorphology 4
D 32061, Cultural Geography (3)	34061, Invertebrate Paleontology 4
D 32080, Politics and Place (3)	44070, Principles of Stratigraphy 4
34070, Economic Geography (3)	plus 3 upper-division hours 3
35065, Geography of Transportation and	MATH 12001, Algebra and Trigonometry4
Spatial Interaction (3)	Choose one from:
D 36065, Cities and Urbanization (3)	BSCI 10120, Biological Foundations (4)
42052, Medical Geography (3)	20560, Invertebrate Zoology (4)
42064, Historical Geography of the U.S. & Canada (3)	CHEM 10060, 10062, Gen. Chemistry I and Lab5
44010, Advanced Economic Geography (3)	TOTAL 4
45085, Urban Transportation (3)	TOTAL
46065, Advanced Urban Geography (3)	Although not required in fulfillment of the major, GEOL 41092,
46070, Urban and Regional Planning (3)	Summer Field Camp, is strongly recommended. Additional
Other appropriate courses may also count in this concentration.	coursework beyond the major requirements in chemistry, mathe-
Plus the following courses	matics, or biology and coursework in physics are also suggested
Two courses from Geographical Information Sciences6	in fulfilling elective hours.
One course selected from Environmental Geography $\ \ldots \ 3$	
Geographic Information	German
Choose 12 hours	(see also B.S./Translation Program)
At least one of the following courses must be at the 40000 level.	
GEOG 39080, Introduction to Geographical	Students interested in teacher licensure must contact the depart-
Information Systems (3)	mental pedagogy coordinator for advising to complete the
44070, Spatial Analysis & Location Theory (3)	required education minor listed under Minors in Other Colleges.
49006, Spatial Programming (3)	
49080, Advanced Geographical Information Systems (3)	(Any portion of the 14-hour basic course sequence may be
49162, Advanced Cartography (3)	waived by demonstrated proficiency; however, under no circum
49163, Advanced Cartography Lab (1)	stances may the coursework taken toward the major drop below
49165, GeoMapping (3)	30 credit hours.)
49210, Earth Imagery (3)	
49211, Earth Imagery Lab (1)	GER 11201, 11202, Elementary German I, II 8
49230, Remote Sensing (3)	21201, 21202, Intermediate German I, II 6
	21201, 21202, Intermediate German 1, II

TOTAL	4
MCLS 21417, Multiculturalism in Today's Germany	
GER literature or culture electives at 30000-40000 level6	,
41216, Contemporary German Culture	
and Conversation3	•
41211, Advanced German Composition	
31421, German Civilization	,
31303, Introduction to German Literature	,
31215, German Phonetics and Diction	,
31211, Composition and Conversation	

Greek

The Department of Modern and Classical Language Studies offers courses of study beyond the minimum needed to meet the foreign language requirement in Greek (classical and modern). However, no major is available at this time. The courses are listed under the departmental course offerings in the back of the Catalog.

History

		TOTAL	33
plus 21 upper-division hours21			
	12071, History of the U.S.: The Modern	Period3	
	12070, History of the U.S.: The Formativ	e Period3	
HIST	11050, 11051, History of Civilization I, II	6	

The 21 additional hours required for a major shall include at least 6 hours of United States history, 6 hours of European history since 1500 (including English and Russian), and 3 hours in the fields of African, ancient, medieval, Latin American or Far Eastern history.

The Individualized Major

(College of Arts and Sciences, 105 Bowman Hall)

The individualized major is designed to allow students to pursue a self-constructed course of study leading to a Bachelor of Arts degree. The major is intended for students with focused educational objectives that cannot be met through standard majors offered by the college.

The program, with a core of related and clearly articulated courses, must be planned in consultation with the dean of the college or the dean's designee; the program must be approved by the Curriculum Committee of the college or its designee. Courses in

other colleges in the university may be included in the individualized major, with the limitation that two-thirds of the hours counted for the major must be within the College of Arts and Sciences.

Formal application for this major must be made by the beginning of the junior year. Transfer students with junior standing or beyond must make application immediately upon entrance to Kent State University. Revisions in the program after its approval may be made by the dean or the dean's designee.

The requirements for an individualized major are as follows:

- 1. 121 hours required for graduation.
- 2. 42 hours of upper-division coursework.
- 3. The General Requirements for the B.A. degree in the College of Arts and Sciences.
- 4. A coherent program of at least 35 hours that the students design to fit their needs. At least half of this program must be in upperdivision coursework. This program must be presented to the Curriculum Committee of the college or its designee for recom mendations and final approval.

Students considering the individualized major should seek advice from the college office at the earliest possible time, but in any case well before submitting a proposed program.

International Relations

(Center for International and Comparative Programs, 124 Bowman Hall)

The international relations major combines language skills with a theoretical background in economics, politics, geography and history. The ability to use one foreign language fluently is a requirement for graduation. This program provides a basis for work in government, diplomacy or related fields. Students in the international relations major are encouraged to participate in Kent State and other university study abroad programs.

Economics

ECON	22060, Principles of Microeconomics
	22061, Principles of Macroeconomics 3
	Choose one from:
	32075, Intro. to International Trade (Geneva) (3)
	42073, Comparative Economic Systems (3)
	42075, International Economic Relations (3)
Politi	cal Science
POL	10500, World Politics
	10004, Political Institutions

	Choose two from:
	30510, International Organization and Law (3)
	30511, Problems of International
	Organization (Geneva) (3)
	30551, U.SLatin American Relations (3)
	40510, U.S. Foreign Policy (3)
	40520, Comparative Foreign Policy (3)
	Choose two from:
	30520, European Politics (3)
	30530, Asian Politics (3)
	30540, African Politics (3)
	30550, Latin American Politics (3)
	40540, Politics of Development (3)
Geogr	aphy
	Choose one from:
GEOG	37040, Geography of Africa (3)
	37050, Geography of Russia and the
	Commonwealth States (3)
	37066, Geography of Europe (3)
	37079, Geography of South Asia (3)
	37084, Geography of South America (3)
	37085, Geography of Central America and Mexico (3)
Histor	у
	Choose two from:
HIST	31024, World War II (3)
	31029, Hist. of British Empire and
	Commonwealth Since 1815 (3)
	31112, Chinese Civilization (3)
	31125, Zionism and Israel (3)
	31126, History of the Middle East (3)
	31128, Late Medieval and Modern Jewish History (3)
	31130, Hist. of African Civilization (3)
	31141, Early Latin America (3)
	31140, Modern Latin America (3)
	41020, 19th-Century Europe (3)
	41024, Modern European History, 1914 to 1945 (3)
	41025, Modern European History: 1945 to Present (3)
	41041, History of Germany, 1871 to Present (3)
	41044, Russia from its Origins to 1801 (3)
	41045, Russia, 1801 to Present (3)
	41049, History of the Balkans:
	18th Century to 1914 (3)
	41050, History of the Balkans: 1914 to Present (3) 41112, History of Modern China (3)
	41114, Economic History of East Asia in Modern Times (3)
	41116, History of Japan (3)
	41132, History of Africa, 1880-Present (3)
	41135, History of West Africa (3)
	41142, Independence in Latin America (3)
	41143 20th-Century Mexico (3)

42297, Colloquium: China and Japan (3) 45697, Colloquium in Social History of Latin America (3) 45797, Colloquium in Comparative Latin American Revolutions (3) 46597, Colloquium in 20th-Century European Diplomacy (3) 47597, Colloquium on NATO (3)

1. One course beyond the intermediate II level in French, German, Russian or Spanish.*

2. Satisfactory performance in a language proficiency test which covers speaking, listening, reading and writing. The test will be administered by CICP in cooperation with the language department. This requirement may also be satisfied through completion of two additional approved courses in the same or a closely related language with a grade of A or B. Prior approval for courses used in this connection must be given in writing by student's adviser.

TOTAL

39

*Students may appeal to their adviser for substitution of another language, when justified by special circumstances.

Italian

The Department of Modern and Classical Language Studies offers courses of study beyond the minimum needed to meet the foreign language requirement in Italian. However, no major is available at this time. The courses are listed under the departmental course offerings in the back of the Catalog.

Justice Studies

Core F	Requirements
JUS	12000, Intro. to Justice Studies
	22300, Police Role
	26701, Corrections
	26702, Criminology
	32400, Research Methods in Justice Studies $\ldots\ldots3$
	33200, Criminal Law
	47211, Court Functions
	Choose one from:
JUS	37311, Minorities in Crime and Justice (3)
	37411, Women in Crime and Justice (3)
Substa	antive Areas:
	Choose one course from: Police Studies3
JUS	22301, Investigative Process (3)
	32200, Police and Community (3)

44400, Justice Administration (3)

	44411, Varieties of Police Work (3)
	Plus one course from: Corrections
JUS	22100, Basic Interviewing (3)
	32500, Crisis Intervention (3)
	46705, Community Corrections (3)
	46707, Correctional Institutions (3)
	46708, Treatment Methods (3)
	Plus two courses from: Justice and Law
JUS	26704, Law and Society (3)
	27311, Victimology (3)
	33300, Dev. of Justice in America (3)
	34200, Criminal Procedures and Evidence (3)
	36703, Juvenile Delinquency (3)
	46706, Juvenile Justice (3)
	47111, Civil Law and Procedure (3)
	47311, Comparative Justice Systems (3)
Major	r Electives9
The re	emaining 9 hours needed to complete the major can be
select	ted from any course listed in the Justice Studies curriculum
or froi	m the following list of courses:
PSYC	40111, Abnormal Psychology (3)
	40383, Psychological Interventions (3)
POL	30130, Courts (3)
	30301, Intro. to Public Administration (3)
	40183, Constitutional Law: Civil Rights and Liberties (3)
PHIL	31035, Philosophy and Justice (3)
	TOTAL 45
Note:	Twelve (12) of the 21 required hours (beyond the core)

Note: Twelve (12) of the 21 required hours (beyond the core) must be upper-division courses. A total of 6 hours of 46792, Internship; 45093, Variable Title Workshop; or 45096, Individual Investigation, can be used toward the fulfillment of the 9 remaining hours. JUS 36792 cannot be used as a major elective.

Latin

Students interested in teacher licensure must contact the departmental pedagogy coordinator for advising to complete the required education minor listed under Minors in Other Colleges.

One 10000-level course may be waived for each unit of high school Latin, with departmental permission.

LAT	16201, 16202, Elementary Latin I, II 8
	26201, 26202, Inter. Latin I, II: Readings 6
	36170, Cicero
	36171, Vergil3
CLAS	21201, English Words from Classical Elements $\ldots3$
CLAS/	HIST 41006, Roman History

	Select 9 hours of upper-division courses from: 9
LAT	36211, Latin Prose Composition (3)
	36372, Lyric Poetry (3)
	36351, Latin Comedy (3)
,	36373, Advanced Prose Authors (3)
,	46095, Selected Topics in Latin (3)
	46352, Elegiac Poets (3)
	46374, Juvenal and Martial (3)
	46375, Lucretius (3)
	Select 9 hours from:
CLAS	21404, The Greek Achievement (3)
	21405, The Roman Achievement (3)
	41301, Classical Mythology (3)
	41402, Roman Archaeology and Art (3)
	41503, Greek Literature in Translation (3)
	41097, Colloquium in Classics (3)
	TOTAL

^{*}May be repeated if different authors are read.

Latin American Studies

(Dean's Office, College of Arts and Sciences, 105 Bowman Hall)

The Latin American studies program provides a broad academic background with a regional focus on Latin America. The curriculum allows students to cross departmental lines to pursue an integrated program that includes the study of Portuguese and Spanish.

To allow students to move with ease from this program into such pursuits as teaching at the secondary level or into a departmental M.A. program, LAS encourages its majors to pursue a second major from such disciplines as anthropology, economics, geography, history, political science, sociology and Spanish.

41142, Independence in Latin America (3)

41143, 20th-Century Mexico (3)

45697, Colloquium: Social History of Latin America (3)

45797, Colloquium: Comparative Latin American Revolutions (3)

HONR 30497, Colloquium: International Study ((1-4) SOC 12050, Intro. to Sociology (3)
MCLS 28404, The Latin American Experience (3	32569, Minorities in America (3)
37143, African-Brazilian Experience in	32610, Birth, Death and Migration (3)
Culture and Literature (3)	32673, Urban Processes and Life Styles (3)
PAS 33508, Caribbean Social and Political Dir	rections (3) TOTAL 51-52
37143, African-Brazilian Experience in	
Culture and Literature (3)	
POL 30551, U.SLatin America Relations (3)	Mathematics
30550, Latin American Politics (3)	
PORT 37330, Early Brazilian Literature (3)	(see also B.S. program)
37331, Recent Brazilian Literature (3)	
37421, Luso-Brazilian Civilization (3)	MATH*12002, 12003, Analytic Geometry and Calculus I, II 10
SPAN 38334, Early Spanish American Literature	e (3) 21001, Linear Algebra with Applications
38335, Recent Spanish American Literatu	ure (3) 22005, Analytic Geometry and Calculus III 3
38424, Culture and Civilization of Latin A	merica (3) CS 10051, Intro. to Computer Science
48366, The Novel of the Mexican Revolut	tion (3) plus 9 additional hours9
48372, Spanish American Novel I (3)	of approved 40000-level MATH or CS courses
48373, Spanish American Novel II (3)	plus one of the following two sequences: 6
48374, Modern Spanish American Drama	a (3) MATH 41001, 41002, Intro. to Modern Algebra I, II (6)
48376, Contemporary Spanish American	Short Story (3) 42001, 42002, Intro. to Analysis I, II (6)
Selected Topics	TOTAL 35
appropriate offerings on Latin America. Individua	al Investigation,
individual research on Latin America.	*MATH 12001, which is a prerequisite for MATH 12002, should be
22 hours of language by following: Plan A or Pl	lan B 21-22 bypassed by students with sufficient background.
Plan A: 13 hours of Portuguese and 8 hours of S	Spanish.
Plan B: 14 hours of Spanish and 8 hours of Porto	
Plan B: 14 hours of Spanish and 8 hours of Portugential Plan B: 14 hours from the following recommended ancil	Day African Chadica
, and the second se	llary courses: . 9 Pan-African Studies
9 hours from the following recommended ancil	llary courses: . 9 Pan-African Studies
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3	Pan-African Studies
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3)	Pan-African Studies Required Courses: PAS 13001, Foundations in Pan-African Studies I
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9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3)	Required Courses: . 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
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9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3)	Required Courses: . 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492	Required Courses: . 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3)	Required Courses: . 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3)	Required Courses: 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3) 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3) 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3) 42095, Special Topics in the Literature of	Required Courses: . 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3) 42095, Special Topics in the Literature of PHIL 31006, 19th-Century Philosophy (3)	Required Courses: 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancill ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3) 42095, Special Topics in the Literature of PHIL 31006, 19th-Century Philosophy (3) 31010, 20th-Century Philosophy (3)	Required Courses: 9 Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3) 42095, Special Topics in the Literature of PHIL 31006, 19th-Century Philosophy (3) 31010, 20th-Century Philosophy (3)	Required Courses: PAS 13001, Foundations in Pan-African Studies
9 hours from the following recommended ancil ANTH 18210, Intro. to Cultural Anthropology (3 18420, Prehistoric Archaeology (3) 28210, Primitive Art (3) 38250, Religion: A Search for Meaning (3 38260, Patterns of Peasant Life (3) 48230, Socio-Cultural Change (3) 48420, Archaeology of North America (3) ECON 32083, Economics of Poverty (3) 42075, International Economic Relations GEOG 32061, Cultural Geography (3) 36065, Cities and Urbanization (3) HIST 31078, African American History (3) 41056, History of Colonial America: 1492 MUS 42111, African Music and Cultures (3) PAS 24407, Caribbean Studies (3) 42095, Special Topics in the Literature of PHIL 31006, 19th-Century Philosophy (3) 31010, 20th-Century Philosophy (3) POL 10500, World Politics (3)	Required Courses: PAS 13001, Foundations in Pan-African Studies

		Adviser Approved Electives:
African Diaspora Studies		· ·
Choose from the courses listed below:	0.12	TOTAL 45
PAS 23171, The African American Community (3)	9-12	Major electives are selected with the approval of an adviser.
33110, The Black Woman: Historical Perspect	tivos (3)	iviajor electives are selected with the approval of an adviser.
33120, The African Am. Man in Contem. Socie		12 of the 24 hours in the concentration must be upper-division
24407, Caribbean Studies I (3)	ety (3)	courses.
33508, Caribbean Social and Political Directio	nns (2)	Courses.
37143, The African-Brazilian Experience in) (3)	PAS majors are recommended to satisfy their college language
Culture and Literature (3)		requirement with the study of an African language, such as
43395, ST: African Diaspora Studies (3)		Kiswahili or Yoruba.
Choose from the courses listed below:	0-3	Kiswaiiii oi Toruba.
HIST 31140, Modern Latin America (3)		
31141, Early Latin America (3)		Philosophy
PORT 37421, Luso-Brazilian Civ. (3)		· messpin
MCLS 28404, The Latin American Experience (3)		PHIL 11001, Intro. to Philosophy
Adviser Approved Electives:	12	11009, Principles of Thinking
Auvisci Approved Licenves		21001, Intro. to Ethics
Pan-African Literature, Arts and Cultu	ire	21020, Comparative Religious Thought I
		plus 15 upper-division hours
Choose from the courses listed below:	9-12	at least 9 of which must be at the 40000 level
PAS 22000, African World Creative Writing (3)	/ 12	Choose one from:
22101, African American Visual Artists (3)		PHIL 21002, Intro. to Formal Logic (3)
22200, Introduction to African Arts (3)		31045, Formal Logic (3)
22201, Expressivity in African Arts (3)		Choose four of the following courses:
31092, Practicum in African Theatre Arts (3)		PHIL 31001, Ancient Greek Philosophy (3)
32010, The Pan-African Essay (3)		31002, Medieval Philosophy (3)
33200, Ancient African Cultures (3)		31003, Continental Rationalism (3)
42095, ST: PA Literature, Arts & Culture (3)		31004, British Empiricism (3)
Choose from the courses listed below:	0-3	31005, German Critical Philosophy (3)
MUS 42111, African Music and Cultures (3)		31006, 19th-Century Philosophy (3)
42161, History of Jazz (3)		31010, 20th-Century Philosophy (3)
45231, Jazz Ensemble (3)		31020, American Philosophy (3)
Adviser Approved Electives:		
		TOTAL 42
Theoretical and Applied Research		
Change from the sources listed helpur	0.12	Physics
Choose from the courses listed below: PAS 34000, Intro. to African World View (3)	9-12	(con also B.C. program)
		(see also B.S. program)
37010, Research Methods in PAS (3)		DUV 22101 22102 Can Univ Dhyciae I II 10
37020, Pan-Africanism and Model OAU (3)		PHY 23101, 23102, Gen. Univ. Physics I, II
47010, The Underground Pailroad (2)		30020, Intermediate Physics Lab
47150, The Underground Railroad (3)	2)	35101, Mechanics I
47095, ST: Theoretical & Applied Research (3	•	36001, Introductory Modern Physics
Choose from the courses listed below:		40020, Advanced Physics Lab
PAS 30010, African & African American Philosophy	iy (ə)	45201, Electromagnetic Theory I
POL 30001, Political Methods (3)		45301, Thermodynamics
		plus 7 approved elective hours
		MATH*12002,12003, Analytic Geometry and Calculus I, II 10

	21001, Linear Algebra with Applications		40182, Constitutional Law: Government
	22005, Analytic Geometry and Calculus III 3		Structures and Functions (3)
	32044, Introduction to Ordinary Differential Equations3		40183, Constitutional Law: Civil Rights
	TOTAL 52		and Liberties (3)
	TOTAL 32		40440, U.S. Environmental Politics and Policies (3)
*MATH	H 12001, which is a prerequisite for MATH 12002, should be		21
bypas	ssed by students with sufficient background. MATH 12001		21
may b	pe waived by obtaining permission from the Department of		Public Policy
Mathe	ematics or by passing the placement exam given by Acade-		
	esting Services.	POL	10300, Foundations of Public Policy
			40391, Seminar in Public Policy
Cours	ses that do not count toward the major:	Plus a	at least 6 hours selected from
PHY	11030, Seven Ideas that Shook the Universe (3)	POL	30300, Public Policy Theory (3)
	11115, Hands-On Energy (2)		30301, Introduction to Public Administration (3)
	21030, Energy and the Environment (3)		30310, Qualitative Political Analysis (3)
	21040, Physics in Entertainment and the Arts (3)		30320, Institutional Analysis (3)
	21430, Frontiers in Astronomy (3)		30330, Intergovernmental Policymaking (3)
	24001, Astronomy (3)		30340, Nongovernmental Organizations (3)
	32551, Applied Engineering Mechanics (3)		30810, Politics of the Global Economy (3)
	32331, Applied Engineering Mechanics (3)	Dluc	at least 6 hours selected from
	Political Science	POL	
	T STRIBUT CSTOTISC	FUL	40310, Political Economy of Public Policy (3)
DOL	10001 Introduction to Political Colones		40320, Ethics and Public Policy (3)
POL	10001, Introduction to Political Science		40350, Cultural Diversity in Public Policy (3)
	10002, Political Thought		40440, U.S. Environmental Politics and Policies (3)
	10003, Political Economy		40810, Government-Business Relations (3)
	10004, Political Institutions		40820, Politics of Social Movements (3)
	30001, Political Methods3		21
	15		International Delations Comparative Delities
			International Relations-Comparative Politics
plus 2	21 hours* in one of the three concentrations	501	40500 W 110 W
	TOTAL 36	POL	10500, World Politics
			40591, Seminar in International Relations-
	American Delitica		Comparative Politics
	American Politics	Plus a	at least 3 hours selected from**3-6
		POL	30500, International Relations Theory (3)
POL	10100, American Politics		30501, Comparative Theory & Concepts (3)
	40191, Seminar in American Politics	Plus	at least 9 hours selected from
Plus	15 hours selected from:15	POL	30510, International Organization and Law (3)
POL	30100, American Political Theory (3)		30520, European Politics (3)
	30110, The Congress (3)		30530, Asian Politics (3)
	30120, Presidency and Executive Bureaucracy (3)		30540, African Politics (3)
	30130, Courts (3)		30550, Latin American Politics (3)
	30140, State Government (3)		30551, U.SLatin American Relations (3)
	30150, Metropolitan Governance (3)		30810, Politics of the Global Economy (3)
	30160, Federalism and Intergovernmental Relations (3)		40510, U.S. Foreign Policy (3)
	40111, Political Campaign Management (3)		40520, Comparative Foreign Policy (3)
	40112, Politics and the Mass Media (3)		40530, Politics of War (3)
	40116, Public Opinion and Political Behavior (3)		40540, Politics of Development (3)
	40118, Political Parties and Interest Groups (3)		40560, Human Rights and Social Justice (3)
	40170. Women and Politics (3)		40810. Government-Business Relations (3)

40820, Politics of Social Movements (3)

21

*The combined, total number of hours in the concentration is 21.

**POL 40996, Individual Investigation, and POL 40992, Public Service, may not be applied toward the upper-division hour requirement; POL 40991, Washington Program in National Issues and POL 30991, Sem: Columbus Program in Intergovernmental Issues, may be applied to meet the upper-division hour requirement; POL 40995, Special Topics, may be applied to meet the upper-division hour requirement as approved by the department.

Portuguese

The Department of Modern and Classical Language Studies offers courses of study beyond the minimum needed to meet the foreign language requirement in Portuguese. However, no major is available at this time. The courses are listed under the departmental course offerings in the back of the Catalog.

Psychology

PSYC 11762, General Psychology3
21621, Quantitative Methods in Psych. I 3
31574, Research Methods in Psychology3
41990, Writing in Psychology1
plus 8 hours of upper-division credit in Psychology8
Choose one from:
20651, Child Psychology (3)
21211, Psychology of Adjustment (3)
Choose one from:
31043, Basic Learning Processes (3)
41363, Biopsychology (3)
Choose one from:
30445, Cognitive Psychology (3)
31141, Perception (3)
Choose one from:
41282, Personality (3)
41532, Social Psychology (3)
TOTAL 30

Note: No more than 6 credit hours of PSYC 31498, 41498, 41495 and 41574 combined may be applied toward major requirements in psychology.

Note: Students following the premedical or predentistry options must take PSYC 41363, 40111, 40383 and 40231.

Russian

(see also B.S./Translation Program)

Students interested in teacher licensure must contact the departmental pedagogy coordinator for advising to complete the required education minor listed under Minors in Other Colleges.

Any portion of the 14-hour basic course sequence may be waived by demonstrated proficiency; however, under no circum stances may the coursework taken toward the major drop below 30 credit hours.

		TOTAL	45
RUSS	elective at 40000 level	3	
RUSS	literature or culture electives at 30000-4000	00 level 6	
	42351, Survey: Russian and Soviet Literat	ture4	
	42211, Adv. Composition and Conversation	on 3	
	32421, Russian Civilization	4	
	32303, Introduction to Modern Writers .	3	
	32215, Russian Phonetics and Diction	3	
	32211, Russian Composition and Convers	sation 3	
	32207, Russian Conversation	2	
	22201, 22202, Intermediate Russian I, II	6	
RUSS	12201, 12202, Elementary Russian I, II .	8	

Sociology

SOC	12050, Intro. to Sociology
	32210, Researching Society
	32220, Data Analysis
	32221, Data Analysis Laboratory
	42126, Sociological Theories
	42991, Senior Seminar in Sociology
plus 1	8 additional hours of SOC courses
at leas	st 12 of these to be upper-division hours

Soviet and East European Studies

TOTAL

34

(Department of History, 305 Bowman Hall)

The Soviet and East European program provides a basis for the development of a comprehensive understanding of the peoples

of the former Soviet Union and Eastern Europe, including Albania, Bulgaria, Czechoslovakia, East Germany, Greece, Hungary, Poland, Romania and former Yugoslavia. It investigates the historical, economic, geographic, governmental, linguistic and literary elements that have contributed to the rise and maintenance of the Russian Empire and its successor state, the U.S.S.R., and the course of the development of the peoples of Eastern Europe.

Prerequisites:

ECON	22060, Principles of Microeconomics (3)
	22061, Principles of Macroeconomics (3)
GEOG	10160, Intro. to Geography (3)
RUSS	12201, 12202, Elementary Russian I, II (8)
	plus
	22201, 22202, Intermediate Russian I, II,
	or
	14 hours of an East European language (6-14)
Requi	rements:
A&S	40197, Russian Area Studies Colloquium 3
HIST	45597, Colloquium in Russian History $\dots 3$
GEOG	37050, Geography of Russia and the
	Commonwealth States
	47075, Resource Geography of U.S.S.R 3
POL	40438, International Relations of Europe3
	<i>Choose one from:</i>
HIST	41044, Russia from its Origins to 1801 (3)
	41049, Balkans: 18th Century to 1914 (3)
	<i>Choose one from:</i>
HIST	41045, Russia, 1801 to Present (3)
	41050, Balkans: 1914 to Present (3)
	<i>Choose one from:</i>
HIST	31050, History and Society of Modern Greece (3)
	31051, Romanian Civilization (3)
RUSS	32421, Russian Civilization (4)

The following courses, as they can be fitted into a student's program, would also be valuable as supportive elective selections:

TOTAL

27-28

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HIST 11050, 11051, Hist. of Civilization I, II (6)

ECON 42073, Comparative Econ. Systems (3)

POL 10004, Political Institutions (3)

RUSS 32303, Modern Writers (3)

32325, Russian Poetry and Folklore (3)

32350, Russian Prose (3)

32354, Russian Drama (3)
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Spanish

(see also B.S./Translation Program)

Students interested in teacher licensure must contact the departmental pedagogy coordinator for advising to complete the required education minor listed under Minors in Other Colleges.

Any portion of the 14-hour basic course sequence may be waived by demonstrated proficiency; however, under no circum stances may the coursework taken toward the major drop below 30 credit hours.

		TOTAL	47
	38335, Recent Spanish-American Litera	ature (3)	
	38334, Early Spanish-American Literatu	ure (3)	
	38331, Recent Spanish Literature (3)		
	38330, Early Spanish Literature (3)		
	Choose 9 hours from:	9	
	Conversation—Advanced	3	
SPAN	48215, Spanish Composition and		
SPAN	elective at the 40000-level	3	
SPAN	literature or culture elective at 30000-40	000 level 3	
	38424, Culture and Civilization of Latin	America 3	
	38421, Civilization of Spain	3	
	38215, Spanish Phonetics and Diction	3	
	38213, Spanish Reading and Conversat	tion	
	38211, Spanish Grammar and Composi	ition	
	28201, 28202, Intermediate Spanish I,	II6	
SPAN	18201, 18202, Elementary Spanish I, II	8	

Note: Students may wish to expand their acquaintance with Spain or Latin America by investigating the Latin American studies program.

BACHELOR OF SCIENCE

General Requirements

The university's Liberal Education Requirements (see Pages 77-80) are included in the College of Arts and Sciences' General Requirements. Students should consult the college office if they have questions concerning the applicability of specific coursework to the General Requirements. None of the courses listed as part of the college's General Requirements may be taken pass-fail.

For the purposes of the General Requirements, students' major departments are defined as the departments that house the major, field of concentration or interdisciplinary program. For students in

double major and dual degree programs, the restrictions on the applicability of major coursework toward the General Requirements are applied to only one of their majors (generally the primary major).

The following General Requirements apply to all B.S. degree programs in the College of Arts and Sciences.

I.	Comp	Composition		
	ENG	10001, College English I (3)		
		10002, College English II (3)		
	Placei	ment by ACT/SAT English composition scores; students		
	may b	pe required to take ENG 10000.		
	Math	and the state and Familian Languages		

The requirement may be fulfilled by:

- A. Passing the first two semesters of any foreign language or American Sign Language (students who receive advanced placement will meet the requirement by passing the second semester of a language).
- B. Placement in courses beyond elementary II level on the placement examination administered by Academic Testing Services. Consult with the language departments for further information.
- C. Passing a course beyond elementary II level.
- D. Receiving credit for elementary II or beyond from CBE, CLEP or transfer.

Note: The requirement may be met with fewer than 8 hours if students receive advanced placement. In this case, students are required to complete the remaining hours with "free" electives.

Students must pass one of the courses listed below or establish proficiency.

MATH 10041, Elementary Probability and Statistics (3)

11008, Explorations in Modern Mathematics (3)

11011, College Algebra (4)

11012, Intuitive Calculus (3)

12001, Algebra and Trigonometry (4)

12002, Analytic Geometry and Calculus I (5)

PHIL 11009, Principles of Thinking (3)

21002, Intro. to Formal Logic (3)

31045, Formal Logic (3)

Restrictions:

Since MATH 12001 covers the same content as 11011 plus 11022, credit is not allowed for both 12001 and 11011 or for both 12001 and 11022.

Note: MATH 14001 and 14002 may be used to meet the requirement provided both courses were completed while students were enrolled in another college.

All 9 required hours in the Humanities and Fine Arts must be selected from the courses listed below. At least one course must be selected from Humanities: Arts and Sciences. At least one course must be selected from Fine Arts: Fine and Professional Arts.

Restrictions:

No coursework from the major department may be counted toward the Humanities and Fine Arts.

Note: Any course marked with a "D" that is taken to satisfy the Humanities and Fine Arts will also satisfy a Diversity Requirement provided that course is not in the major department. Diversity courses marked additionally with an asterisk (*) have a domestic perspective.

Humanities: Arts and Sciences

CLAS D21404, The Greek Achievement (3) D21405, The Roman Achievement (3)

ENG 21054, Intro. to Shakespeare (3)

22071, Great Books I (3)

22072, Great Books II (3)

22073, Major Modern Writers (3)

HIST D11050, History of Civilization I (3)

D11051, History of Civilization II (3)

 $\ensuremath{\mathsf{D^*12070}}$, History of the U.S.: The Formative Period (3)

D*12071, History of the U.S.: The Modern Period (3)

PAS D23001, Black Experience I: Beginnings to 1865 (3)

D*23002, Black Experience II: 1865 to Present (3)

PHIL D11001, Intro. to Philosophy (3)

D21001, Intro. to Ethics (3)

D21020, Comp. Religious Thought I (3)

D21021, Comp. Religious Thought II (3)

Humanities: Fine and Professional Arts

COMM15000, Theory and Practice of Oral Discourse (3)

D*26000, Criticism of Public Discourse (3)

JMC D*20001, Media, Power and Culture (3)

Fine Arts: Fine and Professional Arts

ARCH 10001, Understanding Architecture (3)

10011, Survey of Architectural History I (3)

10012, Survey of Architectural History II (3)

ART 12001, Art Survey (3)

22006, Art History I: Ancient and Medieval Art (3)

22007, Art History II: Renaissance to Modern Art (3)

D*22020, Art of Africa, Oceania, and the Americas (3)

DAN D27076, Dance as an Art Form (3)

MUS 22111, Understanding of Music (3)

D22121, Music as a World Phenomenon (3)

THEA D11000, The Art of the Theatre (3)

• both the PSCI 11660 series and either the CHEM 10050 series,

• both the CHEM 10050 series and the CHEM 10060 series.

• more than one of the PHY 13001, PHY 13011 or PHY 23101

the CHEM 10060 series or the PHY 13001 series.

series.

IV.	Social Sciences9		combinations of BSCI 10001, the BSCI 10110 series and/or the
	Required:		BSCI 20020 series.
	Coursework must be selected from at least two curricular areas		ANTH 18630, Human Evolution (3)
	(e.g., ANTH, ECON, etc.). All 9 required hours in the Social Sci-		BSCI 10001, Human Biology (3)
	ences must be selected from the courses listed below.		10002, Ecology, Evolution and Society (3)
	Restrictions:		20020, Biological Structure and Function (5)
	No coursework from the major department may be counted		CHEM 10030, Chemistry in Our World (3)
	toward the Social Sciences.		10050, Fundamentals of Chemistry (3)
	Note: Any course marked with a "D" that is taken to satisfy the		10052, Intro. to Organic Chemistry (2)
	Social Sciences will also satisfy a Diversity Requirement provid-		10053, Organic and Inorganic Lab (1)
	ed that course is not in the major. Diversity courses marked		10054, General and Elementary Organic Chemistry (5)
	additionally with an asterisk (*) have a domestic perspective.		CS 10051, Introduction to Computer Science (4)
	ANTH D18210, Intro. to Cultural Anthropology (3)		GEOL 11040, Earth Dynamics (3)
	18420, Prehistoric Archaeology (3)		11041, Earth Dynamics Lab (1)
	ECON 22060, Prin. of Microeconomics (3)		11042, Earth History (3)
	22061, Prin. of Macroeconomics (3)		11043, Earth History Lab (1)
	GEOG 10160, Intro. to Geography (3)		21062, Environmental Geology (3)
	D17063, World Geography (3)		21080, Oceanography (3)
	17064, Geography of U.S. and Canada (3)		PHY 11030, Seven Ideas that Shook the Universe (3)
	JUS 26704, Law and Society (3)		13001, General College Physics I (5)
	POL D10004, Political Institutions (3)		13002, General College Physics II (5)
	D*10100, American Politics (3)		13011, College Physics I (3)
	D*10301, Diversity in American Public Policy (3)		13012, College Physics II (3)
	D10500, World Politics (3)		21430, Frontiers in Astronomy (3)
	PSYC 11762, General Psychology (3)		PSCI 11660, Physical Science (3)
	20651, Child Psychology (3)		11661, Physical Science (3)
	21211, Psyc. of Adjustment (3)	VI.	Diversity
	D*22221, Multicultural Psychology (3)		Required: two courses
	SOC D*12050, Intro. to Sociology (3)		The selection of these two courses is subject to the following
	D22778, Social Problems (3)		constraints.
٧.	Basic Sciences		1.) One course must be selected from the courses marked with a
	Required:		"D" in section III or IV above. This course may not be from the
	Nine hours are required in the Basic Sciences. At least 6 hours		major department.
	must be selected from the courses listed below or from begin-		2.) The second course may be selected from either the courses
	ning "major sequence" courses in (biological) ANTH (ANTH		marked with a "D" in section III or IV above or from the full list of
	38630), BSCI (BSCI 10110, 10120), CHEM (CHEM 10060,		diversity courses on Pages 81-83. This course may be from the
	10061, 10062, 10063, 10960, 10961) and PHY (PHY 23101,		major department, but if so it might not apply toward the
	23102). The remaining 3 hours may optionally be selected from		Humanities, Fine Arts or Social Sciences.
			2) One of the above two sources must address democitie (U.C.)
	other courses in BSCI, CHEM, GEOL and PHY.		3.) One of the above two courses must address domestic (U.S.)
			issues. These courses are marked with an asterisk (*). The other
	other courses in BSCI, CHEM, GEOL and PHY.		,
	other courses in BSCI, CHEM, GEOL and PHY. Restrictions:		issues. These courses are marked with an asterisk (*). The other
	other courses in BSCI, CHEM, GEOL and PHY. Restrictions: No more than two courses from any curricular area (not counting	VII.	issues. These courses are marked with an asterisk (*). The other course must address global issues. These courses are not marked with an asterisk (*).
	other courses in BSCI, CHEM, GEOL and PHY. Restrictions: No more than two courses from any curricular area (not counting laboratories) may be counted toward the Basic Sciences. No	VII.	issues. These courses are marked with an asterisk (*). The other course must address global issues. These courses are not marked with an asterisk (*).

DISCIPLINARY FIELDS OF CONCENTRATION*

Students pursuing the B.S. degree are required to study a foreign language or American Sign Language on at least the elementary level (8 hours of coursework or the equivalent in proficiency). A particular field of concentration may require that students study one of the sev-

eral modern languages that contain large scientific literatures (usually French, German or Russian). Even when particular languages are not specified, students should consult the department responsible for the field of concentration before choosing a language to study. This consultation is especially important for students who plan to pursue graduate work or a professional career in the field or a related area.

Within the field of concentration, no more than 64 hours may be required in a single department, and students may take no more than 64 hours for credit in a single department. If 64 hours are taken in one department, no more than 16 hours may be taken in any one other department. A B.S. candidate must earn a cumulative GPA of at least 2.00 in all work taken in the field of concentration and a 2.00 cumulative average in work within that department in which the most hours are required.

*See Page 103 for a list of disciplinary fields of concentration.

Anthropology

(see also B.A. program)

ANTH 18210, Intro. to Cultural Anthropology
18420, Intro. to Archaeology3
38630, Prin. of Biological Anthropology 3
38480, Archaeological Analysis3
38490, Quantitative Anthropology
Upper-division ANTH electives
CHEM 10060, 10061, General Chemistry I, II8
10062, 10063, Gen. Chemistry Lab I, II
CS 10061, Intro. to Computer Programming
MATH 11022, Trigonometry*2
12002, Analytic Geometry and Calculus I5
Choose one from:
ANTH 38050, Theory in Cultural Anthropology (3)
· · · · · · · · · · · · · · · · · · ·
48212, Kinship and Social Organization (3)
, 3, 1,
48212, Kinship and Social Organization (3)
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:
48212, Kinship and Social Organization (3) Choose one from:

Student Elects Either Biology (Biological Anthropology) or Geology/Geography (Archaeology) Concentration:

Biological Anthropology 10120, Biological Foundations 4 30171, General Microbiology (4) 30518, Vertebrate Anatomy (4) 40430, General Physiology (4) 18 Archaeology 29160, Introduction to Maps and Map Analysis 3 GEOG 39161, Intro to Cartography (3) and 39162, Intro to Cartography Lab (1) 49080, Advanced Geographical Information Systems (3) 49165, GeoMapping (3) GEOL 21061, Glacial Geology (3) 23063, Mineralogy (4) 32066, Geomorphology (4) 16-18 TOTAL 72-74

Applied Mathematics

CS	10051, Intro. to Computer Science 4
	23021, Intro. to Object-Oriented Programming3
MATH	*12002, Analytic Geometry and Calculus I
	12003, Analytic Geometry and Calculus II5
	21001, Linear Algebra with Applications
	22005, Analytic Geometry and Calculus III 3
	32044, Intro. to Ordinary Differential Equations $\ldots\ldots3$
	40011, Intro. to Probability Theory and Applications $\ldots3$
	40012, Intro. to Statistical Concepts
	41021, Theory of Matrices
	42031, Mathematical Models and Dynamical Systems 3
	42091, Seminar: Modeling Projects

	٦	TOTAL	72-73
**Allie	ed area electives		. 9
	40042, Sampling Theory (3)		
MATH	40041, Statistical Methods for Experiments	s (3)	
	e one from:		.3
	Stochastic Processes		
MATH	40051, Topics in Probability Theory and		
	Probability and Statistics		
AIIIE	au ai ea eiectives		. 9
	ed area electives		
CS	33001, Data Structures		
	Computational Mathematics		
	O		
**Allie	ed area electives		. 6
	42048, Intro. to Complex Variables		. 3
	42045, Intro to Partial Differential Equation	s	. 4
MATH	42041, Advanced Calculus		. 3
	Applied Mathematics		
pius o	ne of the following concentrations	15-	16
	23102, Gen. Univ. Physics II		
PHY	23101, Gen. Univ. Physics I		
	42202, Numerical Computing II		
	42201, Numerical Computing I		

Biology

(see also B.A. program)

Also see "Note" under "Biological Sciences" entry in "Courses of Study" section of this Catalog.

BSCI	10110, Biological Diversity4
	10120, Biological Foundations
	20140, Cell Biology
	30156, Elements of Genetics3
	30171, General Microbiology
	30360, General Ecology

	TOTAL 8	30
	30481, 30482, Organic Chemistry (6)	
CHEM	20481, 20482, Basic Organic Chemistry (6)	
	Choose one pair from:	
	40277, Morphology of Lower Plants (4)	
	40275, Systematic Botany (4)	
BSCI	40272, Plant Anatomy (4)	
	Choose one from:	
	40556, Vertebrate Zoology (4)	
	30582, Ornithology (4)	
BSCI	30580, Entomology (4)	
	Choose one from:	
	40430, General Physiology (4)	
BSCI	30267, Plant Physiology (4)	
	Choose one from:	
	20560, Invertebrate Zoology (4)	
BSCI	20275, Local Flora (4)	
	Choose one from:	
MATH	*12002, 12003, Analytic Geometry and Calculus I, II 10	
	30475, 30476, Organic Chemistry Lab	
	10062, 10063, General Chemistry Lab I,II	
	10060, 10061, General Chemistry I, II	
plus 8 l	hours upper-division BSCI electives 8	
	40163, Organic Evolution	

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

Botany

Also see "Note" under "Biological Sciences" entry in "Courses of Study" section of this Catalog.

BSCI	10110, Biological Diversity	.4
	10120, Biological Foundations	4
	20140, Cell Biology	4
	20275, Local Flora	4
	30156, Elements of Genetics	3
	30171, General Microbiology	4
	30267, Plant Physiology	4
	30360, General Ecology	4
	40163, Organic Evolution	3
	40272, Plant Anatomy	4
	40275, Systematic Botany	4
	40277, Morphology of Lower Plants	4
plus 4	hours upper-division Botany electives	4
CHEM	10060, 10061, General Chemistry I, II	8
	10062, 10063, General Chemistry Lab I, II	2
	30475 30476 Organic Chemistry Lah	1

^{*}MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

^{**}Selected from approved upper-division courses for majors in BSCI, CHEM, CS, MATH or PHY in consultation with the student's major adviser.

MATH *12002, 12003, Analytic Geometry and Calculus I, II 10	
Choose one pair from:	
CHEM 20481, 20482, Basic Organic Chemistry (6)	
30481, 30482, Organic Chemistry (6)	
TOTAL 8	80
*MATH 12001, which is a prerequisite for MATH 12002, should be	
bypassed by students with sufficient background.	
Chemistry	

(see also B.A. program)

CHEM 30100, Aqueous Equilibrium
30101, Quantitative Analysis
30102, Solution Chemistry Lab2
30475, 30476, Organic Chemistry Lab4
30481, 30482, Organic Chemistry6
MATH*12002, 12003, Analytic Geometry and Calculus I, II 10
Choose either
CHEM 10060, 10061, General Chemistry I, II (8)
10062, 10063, General Chemistry Lab I, II (2)
or
10960, 10961, Honors General Chemistry (10)
Choose one concentration:

Chemistry Concentration

(This program meets the minimum requirements for the American Chemical Society certification. For information with regard to the five-year "Industrial Co-op" option, consult the Department of Chemistry.)

CHEM	30113, Instrumental Analysis 4
	30284, Introductory Biological Chemistry $\dots\dots 4$
	40361, 40362, Intermed. Inorganic Chemistry $\ \ldots \ \ldots \ 4$
	40364, Intermed. Inorganic Chem Lab
	40555, 40556, Elem. Physical Chemistry 6
	40557, Physical Chemistry Lab2
plus 4	hours from approved CHEM 40000-level courses 4
PHY	23101, 23102, Gen. University Physics I, II $\ \ldots \ 10$
MATH	22005, Analytic Geometry & Calculus III3

Biological Chemistry Concentration

BSCI	10120,	Biological Foundations
	20140,	Cell Biology4
	30156,	Elements of Genetics
	30171,	General Microbiology
CHEN	140245,	Biochemical Foundations of Medicine4

	TOTAL 74-81
	or approved upper-division Chemistry electives
	40796, Individual Investigation (1-2)
	40362, Intermediate Inorganic Chemistry (2)
	40361, Intermediate Inorganic Chemistry (2)
CHEM	1 30113, Instrumental Analysis (4)
BSCI	40143, Eukariotic Cell Biology (3)
	Choose 4 hours from the following: 4
PHY	13001, 13002, General College Physics I, II
	40567, Basic Concepts of Physical Chemistry 4
	40263, Physical Biochemistry
	40251, Advanced Biological Chemistry Lab2
	40248, Advanced Biological Chemistry

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

Computer Science

MATH	*12002, 12003, Analytic Geometry and Calculus I, II 10
	21001, Linear Algebra With Applications
CS	10051, Intro. to Computer Science 4
	23021, Introduction to Object-Oriented Programming 3
	31011, Discrete Mathematics
	33001, Data Structures
	33003, Computer Organization and Assembly Language 3
	33005, Symbolic Programming Languages 3
	33006, Social and Ethical Issues in Computing3
	43101, Structure of Programming Languages 3
	43111, Structure of Compilers
	43201, Operating Systems
	45101, Computer Architecture
	46101, Design and Analysis of Algorithms
plus a	pproved 40000-level CS courses
plus a	pproved upper-division CS courses** 5
•	Choose one from:
CS	42201, Numerical Computing I (3)
	46201, Automata, Formal Languages
	and Theory of Computability (3)
	TOTAL 70
	TOTAL /U

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

^{**}With the adviser's prior permission, computer-related upper-division courses, normally from MATH, PHY or M&IS, may replace some of these hours.

Conservation

BSCI	10110, Biological Diversity 4
DOCI	10120, Biological Foundations
	20275, Local Flora
	20560, Invertebrate Zoology
	30156, Elements of Genetics
	30360, General Ecology
	40439, Environmental Physiology 4
CEOL	11040, 11041, Earth Dynamics and Lab
GLUL	21062, Environmental Geology
	32066, Geomorphology
CHEM	10060, 10061, General Chemistry I, II
CITLIV	10062, 10063, General Chemistry Lab I, II
MATH	12001, Algebra and Trigonometry
	15000, Theory and Practice of Oral Discourse
ENG	20002, Introduction to Technical Writing
ENG	Select any 11 hours from these groups:
Rotani	r Group
BSCI	30274, Forestry (2)
DOCI	40269, Biology of the Algae (4)
	40275, Systematic Botany (4)
	40276, Plant Taxonomy (4)
	40277, Morphology of Lower Plants (4)
Fcolor	ny Group
BSCI	40163, Organic Evolution (3)
	40170, Stream Biology (3)
	40363, Microbial Ecology (3)
	40364, Limnology (4)
	40369, Lake Management (3)
Zooloo	y Group
BSCI	30580, Entomology (4)
	30582, Ornithology (4)
	40515, Animal Behavior (3)
	40525, Wildlife Resources (3)
	40556, Vertebrate Zoology (4)
	Select 9 hours:
GEOG	21062, Physical Geography (3)
	39080, Introduction to Geographical Information Systems (3)
	41073, Conservation of Natural Resources (3)
	41082, Geography of Soils (3)
	49080, Advanced Geographical Information Systems (3)
	Choose one from:
CS	10051, Intro. to Computer Science (4)
	39002, Statistical Methods in Geography (3)
	TOTAL 81

Students who intend to enter a Master of Science (M.S.) program should take BSCI 20140, Math 12002 and the organic

chemistry requirements of the B.S. in Biology. An M.A. program may not require these. Upper-division elective hours should be used to specialize in an area of interest.

French Translation

I.	Specif	ic LER and Non-MCLS Courses
	ENG	10001, College English I
	ENG	10002, College English II
	MATH	11011, College Algebra 4
		Choose one from:
	ENG	20002, Introduction to Technical Writing (3)
		30063, Adv. Business and Professional Writing (3)
		Choose one from:
	M&IS	24070, Principles of Systems Development (3)
		24053, Intro. to Computer Applications (3)
	CS	10001, Computer Literacy (3)
		10061, Intro. to Computer Programming (3)
	Other I	LER/University Required Courses
	It is sti	rongly recommended that students in this program take
	ECON	22060 and 22061 as part of their Social Sciences require-
	ment,	and that they fulfill their Basic Sciences requirement with
	BSCI 1	0001, CHEM 10050 and GEOL 21062.
II.	Langua	age Core Requirements:
	FR	23201, Intermediate French I
		23202, Intermediate French II
		33211, French Conversation
		33212, French Composition
		33215, French Phonetics & Diction
		33421, French Civilization
	Any FR	R 30000-level literature course
	,	Choose one from:
	FR	43213, French Composition Advanced (3)
		43216, Contemporary French Culture (3)
	Anv FR	2 40000-level literature course
	,	sumed that students will begin language study at the inter-
		te level.
III.		ation/Business Language Requirements:
	FR	33240, Conversation for Business &
		Special Purposes
		43240, Business and Special Texts
	MCLS	30230, Approaches to Translation
	FR	33231. Translation Practice
		43230, Advanced Translation Practice
	MCLS	40420, Foreign Language and Culture Studies
		purses listed under Section III are on a two-year rotation.
		ess language courses are offered in one academic year, and
	u di iSla	tion courses in the other. Majors should always enroll in

. .16

. .31

. .27

. .16

the courses	that are currently being offered. MC	LS 30230 and FR				
33231 are taken concurrently.				German Translation		
Subject Are	a Specialty					
The Subject	he Subject Area Specialty is a departmentally approved coher-		I.	Specif	ic LER and Non-MCLS Courses	
ent sequence of courses in one or more other disciplines (i.e.,				ENG	10001, College English I	
not in the Department of Modern and Classical Language Stud-				ENG	10002, College English II	
ies). In order to be approved, the Subject Area Specialty must				MATH	11011, College Algebra	
include courses in an area or areas that are currently marketable,					Choose one from:	
such as business, legal studies, international relations, political				ENG	20002, Introduction to Technical Writing (3)	
science, computer science, chemistry, physics or other "hard"					30063, Adv. Business and Professional Writing (3)	
sciences.					Choose one from:	
The Subject Area Specialty may include up to 17 hours of a dif-				M&IS	24070, Principles of Systems Development (3)	
ferent language in the sequence through composition/conversa-					24053, Intro. to Computer Applications (3)	
tion. It may also optionally include MCLS 23217, The				CS	10001, Computer Literacy (3)	
Francophone Experience.					10061, Intro. to Computer Programming (3)	
TOTAL		TOTAL 120		Other I	LER/University Required Courses	
		TOTAL 129			rongly recommended that students in this program take	
					22060 and 22061 as part of their Social Sciences require-	
Geology					and that they fulfill their Basic Sciences requirement with	
	3,				10001, CHEM 10050 and GEOL 21062.	
(see also B.A. program)			п	II. Language Core Requirements:		
(300 0.7	i. program			GER	21201, Intermediate German I	
GEOL 1104	0, Earth Dynamics	3		OLIX	21202, Intermediate German II	
	11, Earth Dynamics Lab				31201, Intensive German Grammar	
	2, Earth History				31211, German Composition/Conversation	
	3, Earth History Lab				31215, German Phonetics & Diction	
	•				31303, Introduction to German Literature	
	3, Mineralogy					
	70, Petrology				31421, German Civilization	
	30, Structural Geology				41211, Advanced German Comp./Conversation	
	6, Geomorphology			H !	41216, Contemporary German Culture	
34061, Invertebrate Paleontology				sumed that students will begin language study at the inter-		
	22, Summer Field Camp				te level.	
	'0, Principles of Stratigraphy		III.		ation/Business Language Requirements	
	r-division hours			GER	31240, Conv. for Bus. & Special Purposes	
	50, 10061, General Chemistry I, II				41240, Business and Special Texts	
	2, 10063, General Chemistry Lab I,				30230, Approaches to Translation	
MATH 1200	2, Analytic Geom. and Calculus I	5		GER	31231, Translation Practice	
	1, Basic Probability and Statistics .				41230, Advanced Translation Practice	
	13001, 13002, Gen. College Physics I, II10			MCLS	40420, Foreign Lang. & Culture Studies	
Choo	Choose one from:			The co	ourses offered under Section III are on a two-year rotation.	
GEOL 4304	0, Principles of Geochemistry (3)			Busine	ess language courses are offered in one academic year, and	
4102	41025, General Geophysics (3)			transla	ation courses in the other. Majors should always enroll in	
Choo	Choose one from:			the cou	urses that are currently being offered. MCLS 30230 and	

GER 31231 are taken concurrently.

sequence of courses in one or more other disciplines (i.e., not in

courses in an area or areas that are currently marketable, such as

the Department of Modern and Classical Language Studies). In order to be approved, the Subject Area Specialty must include

MATH 12003, Analytic Geom. and Calculus II (5)

TOTAL

85-87

21001, Linear Algebra (3)

BSCI 10120, Biological Foundations (4)

20560, Invertebrate Zoology (4)

business, legal studies, international relations, political science, computer science, chemistry, physics or other "hard" sciences.

The Subject Area Specialty may include up to 17 hours of a different language in the sequence through composition/conversation. It may also optionally include MCLS 21417, Multiculturalism in Today's Germany.

TOTAL 129

Mathematics

(see also B.A. program)

		TOTAL	67
CS, EC	CON, GEOL or PHY; or from PHIL 31045,	41 <u>035, 41045</u>	
from u	upper-division courses for majors in M&IS	S, BSCI, CHEM,	
of app	roved coursework from upper-division M.	ATH courses; or	
plus 1	8 additional hours		
of app	roved 40000-level MATH or CS courses		
plus 9	additional hours	9	
PHY	23101, General University Physics I \ldots	5	
CS	10051, Introduction to Computer Science	e 4	
	42001, 42002, Introduction to Analysis I	, II 6	
	41021, Theory of Matrices	3	
	41001, 41002, Introduction to Modern A	Algebra I, II 6	
	22005, Analytic Geometry and Calculus	III3	
	21001, Linear Algebra with Applications	3	
MATH	*12002, 12003, Analytic Geometry and Ca	alculus I, II 10	

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

Physics

(see also B.A. program)

PHY	23101, 23102, Gen. Univ. Physics I, II
	35101, Mechanics I
	36001, Introductory Modern Physics
	45201, Electromagnetic Theory I3
	45301, Thermodynamics
	46101, Quantum and Atomic Physics 4
MATH	*12002, 12003, Analytic Geometry and Calculus I, II10
	21001, Linear Algebra with Applications
	22005, Analytic Geometry and Calculus III 3
	32044, Introduction to Ordinary Differential Equations 3
CHEN	M 10060, 10061, General Chemistry I, II8
	10062, 10063, General Chemistry Lab I, II2

plus an option in one of the following concentrations $\dots 30$

Physics Concentration

		TOTAL	8
Physic	s electives*	9	
MATH	42045, Introduction to Partial Differenti	al Equations4	
	45501, Fundamentals of Modern Optics		
	42512, General Electronic Instrumentat	ion	
****	42020, Applied Physics Lab	2+2	
***	35402, Scientific Computing	2	
PHY**	**32511, Electronics	4	
С. Арр	olied Physics Option		
Upper-	-division physics electives**	7	
	45612, Microprocessor-Based Design I	13	
	42513, Computer Systems Design	3	
	40020, Advanced Physics Lab	2	
	35611, Microprocessor-Based Design I	3	
	32511, Electronics	4	
	30020, Intermediate Physics Lab		
PHY	12411, Introduction to Computer Hardy	9	
CS	10061, Introduction to Computer Progr	amming 3	
-	mputer Hardware Systems Option		
Physic	es electives**	8	
MATH	42045, Introduction to Partial Differenti	al Equations4	
	46401, Introduction to Solid State		
	46301, Introduction to Nuclear Physics		
	45202, Electromagnetic Theory II	3	
	40096, Individual Investigation	2	
	40020, Advanced Physics Lab	2	
	35102, Mechanics II	3	
PHY	30020, Intermediate Physics Lab	2	

The general physics option is designed to prepare physics majors for further study at the graduate level. The emphasis of the computer hardware systems option is on preparing physics majors for industrial work that involves specifying, implementing and using computer systems for measurement and control processes. The applied physics option emphasizes applications of physics, particularly in modern optics, including electro-optic devices and lasers.

*MATH 12001 is a prerequisite which students with sufficient background should bypass. MATH 12001 may be waived by obtaining permission of the Department of Mathematics or by passing the placement exam.

^{**}These courses may be replaced with physics-related electives selected from mathematics or the natural sciences with adviser's permission.

- ***Proficiency in a high-level computer language is required. Students may obtain a waiver of this requirement by obtaining permission from the Department of Physics or by obtaining a passing grade in CS 10061.
- ****PHY 32511 and 35402 may be replaced by PHY 12411 and PHY 35611 with adviser's permission.
- *****PHY 42020 may be replaced by PHY 30020 and PHY 40020 with adviser's permission.

Physics Interdisciplinary Concentration

A. Ch	emistry 0 _i	ption
PHY	30020, I	Intermediate Physics Lab
	32511, E	Electronics4
	40020, A	Advanced Physics Lab2
Physic	cs elective	s6-7
CHEN	Л 30100, А	Aqueous Equilibrium
	30101, 0	Quantitative Analysis2
	30102, 9	Solution Chemistry Lab2
	30475, 0	Organic Chemistry Lab
Plus 4	4 hours fro	om the following:
CHEN	Л 20481, E	Basic Organic Chemistry (4)
	30481, 0	Organic Chemistry (4)
Plus 3	3-4 hours	from the following:
CHEN	∕†20482, E	Basic Organic Chemistry (2)
,	* 30482, 0	Organic Chemistry (2)
	30476, 0	Organic Chemistry Lab (2)
	30113, I	Instrumental Analysis (4)
	30284, I	Introductory Biological Chemistry (4)
*	* 40555, E	Elementary Physical Chemistry (3)
*	* 40556, E	Elementary Physical Chemistry (3)
*	* 40567, E	Basic Concepts of Physical Chemistry (4)
B. Bio	ological S	ciences Option
PHY	30020, I	Intermediate Physics Lab
	40020, A	Advanced Physics Lab2
BSCI	10110, E	Biological Diversity4
	10120, E	Biological Foundations4
	20140, (Cell Biology4
	30156, E	Elements of Genetics3
	40163, 0	Organic Evolution
	40430, 0	General Physiology4
Plus 4	4 hours fro	om the following:
PHY*	**32511,	Electronics (4)
MATH	42045, I	Introduction to Partial Differential Equations (4)
CHEN	/l 20481, E	Basic Organic Chemistry (4)
	30481, (Organic Chemistry (4)

Kecon	illicilucu auditioliai courses.
****	30284, Introductory Biological Chemistry (4)
****	30475, Organic Chemistry Lab (2)
CS	10061, Introduction to Computer Programming (3)
С. Арр	lied Mathematics and Computer Science Option
PHY	30020, Intermediate Physics Lab 2
	40020, Advanced Physics Lab 2
Physic	s electives
CS	10051, Introduction to Computer Science
	23021, Introduction to Object-Oriented Programming3
	33001, Data Structures
Upper-	division Computer Science electives
	hours from the following:
MATH	31011, Discrete Mathematics (3)
CS	42201, Numerical Computing I (3)
	42202, Numerical Computing II (3)
Recon	mended additional course:
MATH	42045, Introduction to Partial Differential Equations (4)
D. Mai	hematics Option
PHY	30020, Intermediate Physics Lab 2
	40020, Advanced Physics Lab 2
Physic	s electives
CS	10051, Introduction to Computer Science
MATH	41001, Introduction to Modern Algebra I
	42001, Introduction to Analysis I
	42045, Introduction to Partial Differential Equations4
40000-	level Mathematics electives

Recommended additional courses:

The chemistry option is designed for students with a strong interest in both physics and chemistry who may wish to prepare for graduate study in chemical physics, or for work in a hightechnology materials-related research and development laboratory. This program satisfies requirements for a minor in chemistry. The biological sciences option is designed for students with a strong interest in both physics and biological sciences who may wish to prepare for graduate study in biophysics, or for work in a biotechnology company. This program satisfies requirements for a minor in biological sciences. The emphasis of the applied mathematics and computer science option is on preparing physics majors to become computer professionals in scientifically oriented organizations. This program satisfies requirements for both a minor in applied mathematics and a minor in computer science. Physics majors who may wish to become part of a technical team in a research and development laboratory should consider the mathematics option. This program satisfies requirements for a minor in mathematics.

TOTAL

*Students may complete either Organic Chemistry sequence, CHEM 20481 and 20482 or CHEM 30481 and 30482.

*	*CHEM 40555 covers primarily thermodynamics; many physics
	majors may benefit more from choosing CHEM 40556 (prerequi-
	site CHEM 40555 or PHY 45301). Students who choose CHEM
	40567 should not also take CHEM 40555 or 40556.

***PHY 32511 may be replaced by other upper-level physics courses with adviser's permission.

****CHEM 20481 or 30481 is a prerequisite for CHEM 30284 and a corequisite for CHEM 30475.

Courses that do not count toward the major:

PHY 11030, Seven Ideas that Shook the Universe (3)

11115, Hands-On Energy (2)

21030, Energy and the Environment (3)

21040, Physics in Entertainment and the Arts (3)

21430, Frontiers in Astronomy (3)

24001, Astronomy (3)

32551, Applied Engineering Mechanics (3)

Russian Translation

١.	Specif	ic LER and Non-MCLS Courses
	ENG	10001, College English I
	ENG	10002, College English II
	MATH	11011, College Algebra
		Choose one from:
	ENG	20002, Introduction to Technical Writing (3)
		30063, Adv. Business and Professional Writing (3)
		<i>Choose one from:</i>
	M&IS	24070, Principles of Systems Development (3)
		24053, Intro. to Computer Applications (3)
	CS	10001, Computer Literacy (3)
		10061, Intro. to Computer Programming (3)
	Other I	LER/University Required Courses
	It is sti	rongly recommended that students in this program take
	ECON .	22060 and 22061 as part of their Social Sciences require-
	ment, a	and that they fulfill their Basic Sciences requirement with
	BSCI 1	0001, CHEM 10050 and GEOL 21062.
II.	Langua	age Core Requirements:
	RUSS	22201, Intermediate Russian I
		22202, Intermediate Russian II
		32207, Russian Conversation
		32211, Composition & Conversation
		32215, Russian Phonetics & Diction
		32303, Modern Writers
		32421, Russian Civilization4
		42211, Advanced Comp./Conversation
	Any Rl	JSS 30000-40000-level literature course

It is assumed that students will begin language study at the intermediate level.

The courses offered under Section III are on a two-year rotation. Business language courses are offered in one academic year and translation courses in the other. Majors should always enroll in the courses that are currently being offered. MCLS 30230 and RUSS 32231 are taken concurrently.

The Subject Area Specialty is a departmentally approved coherent sequence of courses in one or more other disciplines (i.e., not in the Department of Modern and Classical Language Studies). In order to be approved, the Subject Area Specialty must include courses in an area or areas that are currently marketable, such as business, legal studies, international relations, political science, computer science, chemistry, physics or other "hard" sciences.

The Subject Area Specialty may include up to 17 hours of a different language in the sequence through composition/conversation. It may also optionally include MCLS 22217, Diversity in Today's Russia.

TOTAL

129

Spanish Translation

I.

Specifi	c LER and Non-MCLS Courses
ENG	10001, College English I
ENG	10002, College English II
MATH	11011, College Algebra 4
	Choose one from:
ENG	20002, Introduction to Technical Writing (3)
	30063, Adv. Business and Professional Writing (3)
	Choose one from:
M&IS	24070, Principles of Systems Development (3)
	24053, Intro. to Computer Applications (3)
CS	10001, Computer Literacy (3)
	10061, Intro. to Computer Programming (3)
Other L	ER/University Required Courses
It is str	rongly recommended that students in this program take
ECON 2	22060 and 22061 as part of their Social Sciences require-
ment, a	and that they fulfill their Basic Sciences requirement with
RSCI 1	0001 CHEM 10050 and GEOL 21062

II.	Langu	age Core	e Requireme	ents:			27
	SPAN	28201,	Intermediate	e Spanish I			3
		28202,	Intermediate	e Spanish I	I		3
		38211,	Spanish Gra	ammar & C	ompositior	1	3
		38213,	Spanish Rea	ading & Co	nversation		3
		38215,	Spanish Pho	onetics & D	oiction		3
		38421,	Civilization of	of Spain			3
		38424,	Culture & C	iv. of Latin	America .		3
		48215,	Spanish Cor	mposition-	-Advanced		3
	Any SI	PAN 3000	00-40000-le	vel literatur	e course .		3
	It is as	ssumed ti	hat students	will begin	language s	tudy at the inter-	
		te level.					
III.	Transl	lation/Bu	siness Lang	guage Requ	uirements:		16
	SPAN	38240,	Conv. for Bu	usiness & S	Special Pur	poses	3
		48240,	Business an	nd Special T	exts		3
	MCLS	30230,	Approaches	to Transla	tion		3
	SPAN	38231,	Translation	Practice: S	panish		1
		48230,	Advanced T	ranslation F	Practice		3
	MCLS	40420,	Foreign Lan	g. & Cultur	e Studies		3
	The co	ourses of	fered under	Section III	are on a tv	o-year rotation.	
	Busine	ess langu	iage courses	s are offere	d in one ac	ademic year and	
	transla	ation cou	rses in the c	other. Major	rs should a	lways enroll in	
	the co	urses tha	at are curren	tly being o	ffered. MCI	S 30230 and	
			re taken con	-			
IV.	Subje	ct Area S	pecialty				39
	The Si	ubject Are	ea Specialty	is a depart	mentally a	oproved coher-	
	ent se	quence o	of courses in	one or mo	re other di	sciplines (i.e.,	
						anguage Stud-	
	ies). Ii	n order to	o be approve	ed, the Subj	iect Area S	pecialty must	
	includ	le course:	s in an area	or areas tha	at are curre	ently marketable,	
	such a	as busine	ss, legal stu	dies, intern	national rela	ations, political	
			-			r other "hard"	
	scienc	es.		-			
	The St	ubject Are	ea Specialty	may includ	de up to 17	hours of a dif-	
	ferent	language	e in the sequ	ence throu	gh compos	sition/conversa-	
					-	The Spanish	
	Experi	,	. ,			•	
	•					TOTAL	120

Languago Caro Doquiromonto

Zoology

(Also see "Note" under "Biological Sciences" entry in "Courses of Study" section of this Catalog.)

BSCI	10110, Biological Diversity4
	10120, Biological Foundations
	20140, Cell Biology
	30519, Vertebrate Embrol/Dev. Anat 4
	30156, Elements of Genetics

	TOTAL 80
···	30481, 30482, Organic Chemistry (6)
CHEM	20481, 20482, Basic Organic Chem. I, II (6)
	Choose one pair from:
5501	40434, 40445, Mammalian Physiology II and Lab (4)
BSCI	40433, 40444, Mammalian Physiology I and Lab (4)
	Choose one from:
	40556, Vertebrate Zoology (4)
DOCI	30582, Ornithology (4)
BSCI	30580, Entomology (4)
	30518, Vertebrate Anatomy (4) Choose one from:
BSCI	20560, Invertebrate Zoology (4)
DCCI	Choose one from:
MAIH*	12002, 12003, Analytic Geometry and Calculus I, II 10
	30475, 30476, Organic Chemistry Lab
	10062, 10063, General Chemistry Lab I, II
CHEM	10060, 10061, General Chemistry I, II 8
	upper-division Zoology electives 4
	40430, General Physiology 4
	40163, Organic Evolution
	30360, General Ecology 4
	30171, General Microbiology 4

^{*}NOTE: MATH 12001 is a prerequisite course that students with appropriate preparation should bypass.

THREE-PLUS-ONE PROGRAM

General Requirements

Students pursuing a three-plus-one program must earn 97 hours of credit in the university. Appropriate transfer credit from other institutions may be included in these 97 hours, but the students must complete at least 42 hours in residence at Kent State University, including the last 32 hours of the 97-hour requirement.

Students must have a GPA of 2.00 or better in all work taken at Kent State University. They must also complete with at least a 2.00 average all off-campus work taken to fulfill fourth-year requirements. In some fields, students may also be required to present other evidence of the satisfactory completion of the off-campus professional training.

Students must satisfy all degree requirements, including the B.S. General Requirements and field of concentration requirements, by a combination of credits earned at Kent State University and the professional school. The only exception is that the college's foreign language requirement is waived for students who successfully complete a three-plus-one program.

Medical Technology

The medical technology program consists of 97 semester hours of undergraduate study at Kent State University followed by 12 months of professional training at an approved hospital.

Students who wish to pursue their professional education in an accredited program other than the approved affiliates must obtain permission to do so from the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) and from the dean of the College of Arts and Sciences at Kent State University at least one semester before beginning such training.

Students must complete all coursework at Kent State University before beginning their clinical training. However, clinical training at an approved hospital affiliate is not an automatic event that occurs after completion of Kent State coursework. Students are required to make application with the hospital affiliates who then select appropriate student candidates through a highly competitive process. While there is often no required GPA for acceptance into a hospital training program, applicants with higher GPAs are given preference in the selection process. Selection of applicants for clinical training is based upon successful completion of all Kent State coursework, strong letters of reference and a solid interview with the hospital program admissions committee. Because of the unique nature of this three-plus-one program, completion of the B.S. in Medical Technology is dependent upon a student's ability to secure placement with one of the hospital affiliates. The university does not assume responsibility or liability for completion of the major in cases of student dismissal from a hospital program or loss of hospital training sites due to program closures beyond university control. For their professional study, students register through Kent State University for the CLS courses taught in the hospital facility.

Students who successfully complete the clinical (professional study) year are eligible to take a certification examination such as those offered by the National Certification Agency for Medical Laboratory Personnel (NCA) and the Board of Registry of the American Society of Clinical Pathologists (ASCP). The Kent State University degree, however, is not contingent upon passing the Registry Examination.

Years 1-3

US	10001, University Orientation	. 1
BSCI	10110, Biological Diversity	. 4
	10120, Biological Foundations	. 4
	20140, Cell Biology	. 4
	30030 Human Physiology	4

	49034, Clinical Hematology: Applications
	03 11
	49034, Clinical Hematology: Applications 2
	49033, Clinical Hematology: Theory 2
	49032, Coagulation: Theory and Applications 1
	49031, Immunohematology: Applications
	49030, Immunohematology: Theory 2
	49023, Urinalysis: Applications
	49022, Urinalysis: Theory
	49021, Clinical Chemistry: Applications 4
	49020, Clinical Chemistry: Theory 4
	49015, Clinical Parasitology: Theory and Applications 1
	49014, Clinical Mycology: Theory and Applications 1
	49013, Clinical Immunology: Applications
	49012, Clinical Immunology: Theory
	49011, Clinical Microbiology: Applications 4
CLS	49010, Clinical Microbiology: Theory 4
Profes	ssional Study (4th year):
300	42563, Sociology of Health and Health Care (3)
SOC	42563, Sociology of Health and Health Care (3)
F316	31773, Industrial Psychology (3)
	30821, Psychology of Motivation (3)
	sitywide electives 5 f the following: 3
	•
	to the General Requirements for the B.S.
Divers	, ,
	Liberal Education and Diversity course requirement.
	S selected from 6.3. General Requirements list. One Humanities or Fine Arts course may be used to satisfy
	rs selected from B.S. General Requirements list.
	nities and Fine Arts9
	*12050, Intro. to Sociology
PSYC	11762, General Psychology
171171111	30011, Basic Probability & Statistics
	12001, Algebra and Trigonometry 4
ENG	10001, Introduction to computer Frogramming 6
CS	10061, Introduction to Computer Programming 3
	30284, Introductory Biological Chemistry
	20481, Basic Organic Chemistry
	20112, Elem. Quantitative Lab
	20111, Elem. Quantitative Analysis
OTTEN	10062, 10063, General Chemistry Lab I, II
CHEM	1 10060, 10061, Gen. Chemistry I, II
	40581, Animal Parasitology
	40174, Immunology
	30171, General Microbiology 4
	30050, Human Genetics

PREMEDICAL PROGRAMS

Program Requirements

Students pursuing a premedical program must complete all of the General Requirements for the degree elected. They must also com plete all the requirements for the primary major or field of concentration. Students often choose to pursue the primary major in the biological sciences, chemistry or psychology; they may, however, pursue any major in the college along with the premedical program. The first major must be in the College of Arts and Sciences. It is not necessary to have a major in the medically related sciences in order to be admitted to medical school, but it is necessary to complete the appropriate premedical program. Students who elect to design their own B.G.S. degree must include the appropriate premedical program within their degree program.

Students pursuing a B.G.S. or a primary major in a nonscience field should also seek advice from the premedical advisers in the Departments of Biological Sciences and Chemistry. Premedical program requirements are given below, along with recommended coursework that may be taken as elective coursework or as part of a primary major.

Predentistry

BSCI	10120, Biological Foundations 4
	20140, Cell Biology
CHEM	130475, 30476, Organic Chemistry Lab4
MATH	12001, Algebra and Trigonometry 4
	Choose Group One or Group Two:
Group	One
CHEM	1 10060, 10061, Gen. Chemistry I, II (4 each)
	10062, 10063, General Chemistry Labs I, II (1 each)
Group	Two
CHEM	110960, 10961, Honors Gen. Chemistry (5 each)
	Choose one from:
CHEM	120481, 20482, Basic Organic Chemistry (6)
	30481, 30482, Organic Chemistry (6)
	Choose one from:
PHY	13001, 13002, Gen. College Physics I, II (10)
	23101, 23102, Gen. University Physics I, II (10)
	Choose two from:
BSCI	30518, Vertebrate Anatomy (4)
	30519, Vertebrate Embryol./Develop. Anatomy (4)
	30156, Elements of Genetics (3)
	30171, General Microbiology (4)
	40430, General Physiology (4)
	TOTAL 49-5

Some dental schools may also require the following strongly recommended courses: CHEM 30100, 30101, 30102, 30113, Quantitative Analysis; 30284, Introductory Biological Chemistry; MATH 12002, Analytic Geometry and Calculus I. Distributive requirements in the social sciences should be taken in the behavioral science areas (sociology and psychology).

Premedicine, Preosteopathy, Preveterinary Medicine

BSCI	10120, Biological Foundations 4
	20140, Cell Biology
CHEM	30475, 30476, Organic Chemistry Lab 4
MATH*	12002, Analytic Geometry and Calculus I 5
	Choose Group One or Group Two:
Group	One
CHEM	10060, 10061, Gen. Chemistry I, II (4 each)
	10062, 10063, General Chemistry Labs I, II (1 each)
Group	Two
CHEM	10960, 10961, Honors Gen. Chemistry (5 each)
	Choose two from:
BSCI	30518, Vertebrate Anatomy (4)
	30519, Vertebrate Embryol./Develop. Anatomy (4)
	30156, Elements of Genetics (3)
	30171, General Microbiology (4)
	40430, General Physiology (4)
	Choose one from:
CHEM	20481, 20482, Basic Organic Chemistry (6)
	30481, 30482, Organic Chemistry (6)
	Choose one from:
PHY	13001, 13002, General College Physics I, II (10)
	23101, 23102, General University Physics I, II (10)
	TOTAL 50-51

* MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

Some medical schools may also require the following strongly recommended courses: CHEM 40245, Biochemical Foundations of Medicine, or 40247, Principles of Biochemistry; MATH 30111, Basic Probability and Statistics. Distributive requirements in the social sciences should be taken in the behavioral science area (SOC 12050 plus 42563, Medical Sociology; PSYC 11762 plus 40111, Abnormal Psychology, recommended).

Veterinary Medicine. The current "Admission Guidelines" of The Ohio State University (OSU) College of Veterinary Medicine indicate that, in order to be eligible for "admission without condition," students pursuing the Kent State premed program should select BSCI 30156, Elements of Genetics, and 30171, General Microbiology, from among the biological sciences options and should add either CHEM 30284, Introductory Biological Chem

istry, or 40247, Principles of Biochemistry, to the chemistry requirements above if neither is already being taken as part of the second major. In addition, OSU recommends coursework in economics, sociology and psychology to fulfill the social sciences requirement. Speech (communications), history, classical studies and/or comparative literature are recommended for the humanities. A course in statistics also is encouraged: MATH 30111, Basic Probability and Statistics, is recommended.

Bachelor of General Studies

General Requirements

The Bachelor of General Studies requires a total of 121 semester hours of successfully completed credits. In addition, 42 of those 121 hours must be at the upper-division (30000-40000) level. Students must complete the degree with at least a 2.00 accumulative average.

Students pursuing the B.G.S. must complete the university's Liberal Education, Diversity and Writing-Intensive Course Requirements as described on Pages 77-85 of this Catalog. Courses taken to satisfy the Social Sciences must be taken in at least two curricular areas (e.g., ANTH, ECON, etc.). Courses taken to satisfy the LERs should be carefully chosen to fit in with the overall B.G.S. program. University and college requirements apply to this degree.

Coursework Restrictions

All of the limitations on the applicability of credit described on Pages 111-112 apply to the B.G.S. These limitations affect applied and nontraditional coursework, applied music and music ensembles, native languages other than English, physical education activity courses and ROTC courses.

No more than 24 semester hours in any one department may be counted toward the 121 hours required for graduation. When two or more disciplines are housed in one department (such as French and Spanish), they may be counted separately.

Students who have already completed the course or hour requirement for another Arts and Sciences major may not be admitted to the B.G.S. program unless given special permission by the Curriculum Committee of the college or its designee. Students who have already earned a baccalaureate degree are not eligible to pursue the B.G.S. degree.

No more than 42 semester hours from other colleges combined will be counted toward graduation. Of these 42 hours, no more than 24 hours in any one department may be counted.

No credit will be allowed for duplication of courses. No credit will be allowed for duplication of certain series of courses as stated elsewhere in this Catalog.

Admission

Students who wish to become candidates for the B.G.S. must make a special application. Students should begin their formal application for admission to the B.G.S. program at or near the time they achieve junior standing. The formal application must be completed before students begin the last 30 credit hours of academic work.

To be admitted to candidacy for the B.G.S. degree, follow the steps listed below:

- 1. First, visit the college office, 105 Bowman Hall, for an initial conference. This conference will be followed by an evaluation of course credit and further advising as appropriate.
- 2. After appropriate consultation, submit a letter to the College of Arts and Sciences requesting admission to the B.G.S. degree program. This letter should express the following: reasons for seeking the degree; expectations concerning the usefulness of the degree for employment or for further education; acknowledgement of the nontraditional nature of the degree with its opportunities for freedom of choice and recognition that the degree falls outside the pattern of standard degrees; and a statement declaring full responsibility for one's B.G.S. program.

The letter should be accompanied by a proposed program of study. This plan should show the specific courses to be completed before graduation, arranged by department, with course numbers, titles and credit hours listed. The date of expected graduation should also be listed. In planning the proposed program of study, allowance should be made for the total number of credit hours and the total number of upper-division hours needed to complete the degree.

3. When the proposed program of study and letter have been approved by the college, complete a Change of Program form in the college office. The signing of this form completes admission to the program.

Advising

Because the B.G.S. is a nontraditional degree program, it is essential that students pursuing this degree plan their programs with care. Careful planning demands close consultation with advisers in the college office and with faculty advisers in the departments where the student plans to concentrate coursework. Extensive advising is especially important for students who plan to pursue advanced studies after completing the B.G.S.

Students pursuing the B.G.S. degree are officially advised in the college office. All decisions regarding students' programs are made

in the college office, including the approval of changes in a program that has been accepted. Course substitutions in an accepted program must be approved before those classes are begun.

Integrated Life Sciences Six-Year Medical Program (B.S./M.D.)

Northeastern Ohio Universities College of Medicine

The Northeastern Ohio Universities College of Medicine was established in 1973 by an act of the Ohio General Assembly. The college is a consortium of The University of Akron, Kent State University and Youngstown State University. NEOUCOM is fully accredited by the Association of American Medical Colleges and the Council on Medical Education of the American Medical Association. It graduated its first class in the spring of 1981.

The college was established to provide new opportunities in medical education. Its purpose is to prepare well-qualified physicians who are oriented to the practice of medicine at the community level, especially primary care and family medicine. The medical training required in the program is combined and integrated with university coursework in order to produce physicians who are well-grounded in the sciences, humanistic in their approach to patients, and liberally educated.

This program requires that students be enrolled for 11 months in each of the six academic years. Phase I of the program is spent on one of the three university campuses. Phase I begins with a sum mer term and continues through two academic years and two additional summer terms. During this period, coursework is focused on studies in the behavioral and basic premedical sciences. It also includes orientation to clinical medicine and work in the humanities.

Phase II of the program involves intensive medical training and may be accompanied by summer coursework in the humanities. In the first year of Phase II, students study the basic medical sciences, including anatomy, physiology and microbiology, at the NEOUCOM Basic Medical Sciences Campus in Rootstown. Students may return to the university campus for the summer term following this year to complete any requirements for the Bachelor of Science degree.

In the remaining three years of Phase II (years four, five and six of the overall program), students develop competence in the clinical aspects of medicine through instruction provided principally at one or more of the community hospitals associated with the program.

Phase I Curriculum (B.S. in ILS) Year 1 Summer 1: US Humanities or Electives 6 13 Fall 1: BSCI 20001, Zoological Foundations of Medicine I 4 CHEM 10960, Honors Gen. Chem. I 5 MATH 12021, Calculus for Life Sciences 4 HONR 10197, Fresh. Colloquium I 4 19 Spring 1: CHEM 10961, Honors General Chemistry II 5 42563, Sociology of Health and Health Care 3 HONR 10297, Fresh. Colloquium II 4 18 Year 2 Summer 2: 32592, Soc. Perspectives of Public Health 3 Fall 2: BSCI 30171, Gen. Microbiology 4 CHEM 30481, Organic Chemistry 4 ILS 13001, Gen. College Physics I (5) PHY 23101, Gen. University Physics I (5) Spring 2: BSCI 30519, Vertebrate Embryology and Dev. Anatomy 4 CHEM 40245, Biochem. Found. of Medicine 4 MATH 12022, Prob. and Statistics for Life Sciences 3 ILS PHY 13002, Gen. College Physics II (5) 23102, Gen. University Physics II (5) 18

30392, Psychological Helping Skills for Medicine 3

Summer 3:

40392, Med. Psych. Practicum	3
PSYC 40111, Abnormal Psychology	3
Humanities or Electives	3

12

Humanities and Electives

THE HUMANITIES COMPONENT (16):

Objective: Within the constraints imposed and the opportunities afforded by summer academic scheduling, to provide disciplined experience in and exposure to the differing modes of thought, perception/perspectives, and methodologies of the disciplines usually classified as the "humanities" in arriving at informed critical analyses of the human experience.

Requirement: 16 semester hours of academic credit. At least one of the courses taken to satisfy the Humanities must also satisfy the Diversity Requirement. The humanities requirements may be fulfilled in the following fashion during the students' fourth and fifth summers (fourth and sixth summers for students who begin core clerkships in fifth summer, rather than in the fall) in the joint six-year B.S./M.D. Program offered by the university in conjunction with the Northeastern Ohio Universities College of Medicine:

I—ILS 49997-Humanities Colloquium (1)

An integrative colloquium taken during the eight-week term of first summer of enrollment in humanities component of the ILS Program; this colloquium is designed to explore the nature of—and establish the interrelationships among—the various perspectives on the human condition/experience and on the nature of knowledge and of "truth" offered by the several academic disciplines classified as the "humanities." Depending on the orientation of a given offering, the colloquium will attempt to provide a perspective on the relationship of the humanities to medical science, to the practice and profession of medicine, and to related issues, concerns and "applications."

II—Fine Arts (3)

Students are to take at least one approved course from the list of LER Fine Arts courses.

III—History, Literature, Philosophy (12)

Students are to take at least two courses apiece (at least one of each pair must be upper division) in each of two of the following fields from the list of suitable courses provided each summer: History

Literature

Philosophy

ELECTIVES (6):

During the time devoted to fulfillment of the humanities requirements of the ILS Program, students also will be taking "elective" hours sufficient to complete the 121 semester hours of satisfactorily completed academic credits required for the B.S. degree as offered through the College of Arts and Sciences of Kent State University. Humanities hours in excess of the 16 semester hours minimum of the humanities requirements will be applied toward these "elective" hours. Up to 4 credit hours earned through the NEOUCOM "Human Values in Medicine" program may be applied toward elective requirements of the Kent curriculum but not toward the 16-hour requirement of the humanities component of the ILS program.

Diversity (0-3):

Students must also satisfy the 6-hour Diversity Requirement of the university. At least one of the courses taken to satisfy the Humanities must also satisfy the Diversity Requirement. (See Pages 81-83.)

Admission and Advancement

Eligibility for Admission

High school seniors and recent high school graduates, having demonstrated appropriate academic competence and motivation toward a career in medicine, will be considered for admission into the first year of this program by one or more of the three sponsoring consortium universities.

Interested students should apply directly to the Office of Student Affairs, Northeastern Ohio Universities College of Medicine, Rootstown, OH 44072, following completion of the preliminary AMCAS medical school application process.

Evaluation of Progress

Progress through the first two years of this program will be based on academic performance and development of personal maturity appropriate to assumption of professional responsibility. An Academic Review and Promotion Committee including University and College of Medicine faculty will assess these factors and will recommend students for promotion and formal admission to the third year of the program.

How to Apply

To apply to the program, write to Kent State University, Admissions Office, 204 Kent Student Center, P.O. Box 5190, Kent, OH 44242-0001 and request application forms for the B.S./M.D. degree program. Inquiries may be directed to the Office of Integrated Life Sciences, (330) 672-3015.

Cost

The university in which the students are enrolled will assess its normal undergraduate fees for the first and second years. Fees for the third through sixth years will be set by the College of Medicine Board of Trustees and will not be significantly different from the fees that Ohio residents now pay to attend publicly supported medical schools elsewhere in the state.

INTERCOLLEGE/SCHOOL PROGRAMS

The following interdisciplinary major degree programs are offered by the College of Arts and Sciences in cooperation with the other colleges and schools at Kent State University.

Management and Industrial Studies

The management and industrial studies major in the B.S. is an interdisciplinary degree program designed to provide students with communication skills and human relations and management skills, as well as the technical expertise needed within many levels of business and industry. Such a broad-based background is especially appropriate for individuals already working and needing to strengthen their professional skills, entry-level employees interested in moving into supervisory or managerial positions, and individuals interested in small business organizations that require a small work force with breadth of knowledge and experience.

The major is based on a core set of courses drawn from the four areas of communication studies, social sciences, management and information systems and technology. Students will also complete an additional 12 semester hours from these four areas, with no more than 6 semester hours from any one area, to further develop a broad knowledge base. Electives, selected in consultation with an academ ic adviser, may be used to further develop a selected area of interest.

Management and Industrial Studies

The management and industrial studies major in the B.S. degree program requires a total of 121 semester hours of successfully completed credits. In addition, 42 of those 121 hours must be at the upper-division (30000-40000) level. Students must complete the degree with at least a 2.00 cumulative GPA.

I.	COMPOSITION6
	ENG 10001, 10002, College English I, II
	Based on test scores, students may be required to take ENG
	10000.
II.	MATHEMATICS, LOGIC and FOREIGN LANGUAGES12

II.	MATHEMATICS, LOGIC and FOREIGN LANGUAGES
	One foreign language or American Sign Language or
	equivalent in proficiency
	Mathematics4
	Students must pass one of the courses listed below or establish
	proficiency.

MATH 11011, College Algebra (4)

12001, Algebra and Trigonometry (4)

Restrictions:

Since MATH 12001 covers the same content as 11011 plus 11022, credit is not allowed for both 12001 and 11011, or for both 12001 and 11022.

III.	HUMA	NITIES and FINE ARTS9
	COMN	M15000, Theory and Practice of Oral Discourse
	PHIL	D21001, Introduction to Ethics
	Humar	nities or Fine Arts Elective
IV.	SOCIA	L SCIENCES
	ECON	22060, Principles of Microeconomics
	PSYC	11762, General Psychology
	SOC	D*12050, Introduction to Sociology
٧.		SCIENCES
	Nine h	ours must be selected from the basic sciences require-
	ment o	on Page 79 under "Liberal Education Requirements."
VI.	DIVER	,
	The pr	ogram requirements include the required 6 hours of Diver-
		See the courses above marked with a "D." Courses with a
	-	stic perspective are additionally marked with an asterisk
	[*].)	
VII.	/	001, University Orientation1
		UIREMENTS
		//25863, Business and Professional Speaking
	0011111	35550, Small Group Communication
	ECON	22061, Principles of Macroeconomics
		31773, Industrial Psychology
	SOC	32510, Sociology of Work
	ACCT	
	7,001	23021, Introduction to Managerial Accounting
	M&IS	24053, Introduction to Computer and
	Mais	Information Systems
		24056, Fundamentals of Business Statistics
		24163, Principles of Management
		34060, Operations Management
		34180, Human Resource Management
	TECH	31000, Cultural Dynamics of Technology
	ILOII	43700, Computer Integrated Manufacturing
		Choose one from:
	TECH	33056, Cooperative Education —
	ILCII	Professional Development (1-6)
		43096, Individual Investigation in Applied
		Science and Technology (1-3)
		Choose one from:
	ENG	20001, Business Writing (3)
	LING	20002, Introduction to Technical Writing (3)
		Choose one from:
	MATH	11012, Intuitive Calculus (3)
	IVIATO	12002, Analytic Geometry and Calculus I (5)
	A	
		onal Coursework
		12 additional hours from the following with no more than
		any one group:
		L SCIENCES 20031 Psychology of Mativation (2)
	P24C	30821, Psychology of Motivation (3)
		41532, Social Psychology (3)

SOC 42564, Bureaucratic Organizations (3)

COMMUNICATION

COMM35864, Organizational Communication (3)

ENG 30063, Advanced Business and Professional Writing (3)

30064, Argumentative Prose Writing (3)

30065, Expository Prose Writing (3)

31001, Fundamental English Grammar (3)

TECHNOLOGY

TECH 31020, Automated Manufacturing (3)

41055, Industrial Practice (3)

43080, Industrial and Environmental Safety (3)

UPPER-DIVISION BUSINESS

ACCT 33063, Cost Control and Analysis for Management (3)

M&IS 44150, Total Quality Management (3)

FIN 36053, Business Finance (3)

The interdisciplinary nature of the B.S. in Management and Industrial Studies enables students to participate in upper-division courses offered through the College of Business Administration. Students in this major may take up to 25 percent or 30 semester hours of their degree requirements from the following departments: accounting, management and information systems, economics, finance and marketing. Up to 9 hours of coursework in economics, including ECON 22060, ECON 22061 and three upper-division elective hours, will not be counted toward the 30 semester-hour maximum. For purposes of the B.S. in Management and Industrial Studies, students may use approved Regional Campus equivalents for ACCT 23020, 23021, and M&IS 24053, 24056. Other courses from the Regional Campuses' or any community college's applied technology programs may be used or substituted for business-related coursework only with the permission of an adviser.

3-8 hours need to be upper-division

TOTAL

121

The 7-14 elective hours are needed to satisfy the minimum 121 total hour requirement. Depending upon the specific coursework taken to satisfy the major requirements, 3-8 of these elective hours must be taken at the upper-division level to satisfy the minimum 42 upper-division hour requirement.

MINORS IN THE COLLEGE OF ARTS AND SCIENCES*

The College of Arts and Sciences offers two types of minor programs. Students may pursue minors with individual departments, or they may elect interdisciplinary minor programs, which include coursework from several departments. All of the minor programs offered in the College of Arts and Sciences are open to students pursuing an undergraduate degree at Kent State University, with the restriction that students may not pursue a major and minor in the same discipline.

Departmental minors generally require from 18 to 24 hours of study in the discipline. In addition, some departmental minors have prerequisites. These prerequisites are courses that are required as a foundation for study in the minor. In some cases, students' majors will have required these courses; in other cases, the students may have demonstrated proficiency in these areas through testing or high school coursework. Prerequisites are listed with the minor programs below; prerequisites must be completed before students begin work in the minor.

Some departments have different introductory course sequences for majors and nonmajors. Students pursuing departmental minors are generally expected to take courses intended for majors in that discipline. However, if students take a nonmajor introductory sequence and later decide to minor in that discipline, and if performance in the nonmajor sequence is clearly superior, the department may recommend that the nonmajor sequence be accepted as a substitute for the major coursework.

Courses taken for a minor may overlap with courses required under the college's General Requirements; in addition, courses taken for a minor may overlap with coursework in the major, with certain restrictions for interdisciplinary minors noted below.

Special topics courses and colloquia are often listed as acceptable for interdisciplinary minors. However, students should be aware that course numbers for special topics courses and colloquia are used for a variety of offerings, many of which would not be suitable for the particular minor in question. For that reason, it is essential that students who wish to use a special topics course or colloquium for an interdisciplinary minor consult the program coordinator to make certain that the course being offered in a particular semester is suitable.

Certain interdisciplinary minors may be incorporated within the Ethnic Heritage interdisciplinary major described above. They provide the studies emphasis area required as core IV in that major. Minors that may be used for this purpose include British studies, German studies, Hellenic studies, Jewish studies, Lithuanian studies, Romanian studies and Russian studies.

Certificates of achievement are awarded to students who satisfactorily complete an interdisciplinary minor.

*See Pages 104-105 for lists of departmental and interdisciplinary minors

African Studies

(Felix K. Ekechi, Coordinator, 305 Bowman Hall)

The African studies program is designed to provide a broad familiarity with African history, culture and contemporary problems. Study in this program may be coordinated with relevant language study through the critical languages program. The African studies program requires successful completion of a minimum of 18 semester hours of coursework selected from the list given below; coursework must be completed in at least three academic disciplines.

18 hou	ırs from the following:
ART	42025, Art of West Africa (3)
	42026, Art of Nigeria (3)
	42027, Art of Central Africa (3)
GEOG	37040, Geography of Africa (3)
HIST	31130, History of African Civilization (3)
	41131, History of Africa to 1880 (3)
	41132, History of Africa: 1880-Present (3)
	41135, History of West Africa (3)
PAS	10101, 10102, Elementary Kiswahili I, II (8)
	22200, Intro. to African Arts (3)
	42095, Special Topics in the Literature of Pan-Africa (3)
POL	30540, African Politics (3)
MUS	42111, African Music and Cultures (3)
ANTH	38240, Culture and Personality (3)
	38250, Religion: A Search for Meaning (3)
	38260, Patterns of Peasant Life (3)
	48410, Prehistory: Eurasia and Africa (3)
	48230, Socio-Cultural Change (3)
ECON	32075, Intro. to International Trade (3)
	42075, International Economic Relations (3)
	42076, Economic Development (3)
CRIT	13201, 13202, 23203, 23204 (Yoruba) (14)

TOTAL

18

 ${\it Minimum\ cumulative\ 2.00\ GPA\ required.}$

American Studies

(Dean's Office, College of Arts and Sciences, 105 Bowman Hall)

Drawing on coursework in history, literature, the arts and the social sciences, the American studies minor offers a broad introduction to American culture. This program takes an interdisciplinary approach

to American life and thought, encouraging the drawing of connections among various aspects of American culture.

	,
AMST	10001, Intro. to American Studies
	40197, Senior Colloquium in American Studies 3
Americ	can Literature:6
ENG	33001, U.S. Literature to 1865 (3)
	33002, U.S. Literature from 1865 to 1945 (3)
	33003, U.S. Literature from 1945 to Present (3)
	33011, African-American Literature (3)
	34021, Women's Literature (3)
	36001, Literary Criticism (3)
	39695, Topics in Ethnic Literature of the U.S. (3)
Americ	can History:
HIST	31070, History of American Business Enterprise (3)
	31078, African American History (3)
	41056, History of Colonial American: 1492-1714 (3)
	41057, 18th-Century American: 1714-1789 (3)
	41069, Recent America, The United States,
	1929-Present (3)
	41070, American Social and Intellectual
	History 1790-1876 (3)
	41071, American Social and Intellectual
	History, 1876-Present (3)
	41074, American Economic History (3)
	41079, History of the Immigrant in America (3)
	41083, U.S. Foreign Relations through World War I (3)
Don 44	41084, U.S. Foreign Relations from 1920 (3)
PAS PAS	rican Studies:
PAS	33110, The Black Woman: Historical Perspectives (3) 35100, African American Social, Political and
	Economic Systems (3)
	35200, African Social, Political and Economic Systems (3)
	41192, African-American Affairs Practicum (3)
	42500, Black Education In America (3)
	49095, Selected Topics (3)
Plus 6	hours in the arts or 6 hours in methods:
The Ar	
	42056, American Art: 1607-1860 (3)
	42057, American Art and Architecture, 1860-1940 (3)
	42058, American Film, Photography, Art and Ideas (3)
JMC	40008, History of American Mass Communication (3)
MUS	42131, America's Music (3)
	42161, History of Jazz (3)
Metho	ds
ANTH	18210, *Introduction to Cultural Anthropology (3)
	48270, Native Peoples of North America (3)
POL	40112, Politics and the Mass Media (3)
	40116, Political Opinion and Political Behavior (3)
	10510 110 5 1 5 11 (0)

40510, U.S. Foreign Policy (3)

GEOG 17064, *Geog. of U.S. and Canada (3)
42064, Hist. Geog. of U.S. and Canada (3)
PHIL 31010, **20th-Century Philosophy (3)
31020, **American Philosophy (3)
41060, Pragmatism and Beyond (3)

TOTAL

Appropriate special topics courses, particularly those in American studies, may be substituted for courses listed above if approved by the program coordinator.

Minimum cumulative 2.00 GPA required.

*Only one of these two courses may be counted toward the American studies minor requirements.

**Only one of these two courses may be counted toward the American studies minor requirements.

Anthropology

Minimum cumulative 2.00 GPA required.

Applied Conflict Management

CACM 11001, Introduction to Conflict Management
11002, Solving Problems vs. Transforming Conflicts 3
21010, Cross-Cultural Conflict Management
22020, Conflict Theory
37070, Nonviolence: Theory and Practice3
43030, Mediation: Theory and Training3
Choose two of the following:
CACM 32020, Strategic Planning (3)
34040, Negotiation (3)
35050, Public Sector Dispute Resolution (3)
36060, Conflict Analysis & Intervention Ethics (3)
49091, Seminar in Conflict Management (3)
Choose one of the following
CACM 35092, Internship in Conflict Management (3)
35095, Special Topics (3)
36096, Individual Investigation in Conflict Management (3)

Minimum cumulative 2.00 GPA required.

Applied Mathematics

Prerequisites:
CS 10051, Intro. to Computer Science (4)
MATH*12001, Algebra and Trigonometry (4)
12002, Analytic Geometry and Calculus I (5)
12003, Analytic Geometry and Calculus II (5)
Core Courses:
MATH 21001, Linear Algebra with Applications
22005, Analytic Geometry and Calculus III3
32044, Intro. to Ordinary Differential Equations
CS 23021, Intro. to Object-Oriented Programming3
Elective Courses
Three courses selected from the following in consultation with
the student's minor adviser.
CS 33001, Data Structures (3)
MATH 31011, Discrete Mathematics (3)
40011, Intro. to Probability Theory and Applications (3)
40012, Intro. to Statistical Concepts (3)
40041, Statistical Methods for Experiments (3)
40042, Sampling Theory (3)
40051, Topics in Probability Theory and
Stochastic Processes (3)
41021, Theory of Matrices (3)
42011, Mathematical Optimization (3)
42031, Mathematical Models and Dynamical Systems (3)
42041, Advanced Calculus (3)
42045, Introduction to Partial Differential Equations (4)
42048, Introduction to Complex Variables (3)
42091, Seminar: Modeling Projects (3)
42201, Numerical Computing I (3)
42202, Numerical Computing II (3)
21-22

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.

Minimum cumulative 2.00 GPA required.

Asian Studies

Dennis Hart (Political Science), James A. Tyner (Geography) Co-coordinators of Asian Studies

The Asian studies program provides focused study in the cultures, histories and governments of Asia. The program requires success-

ful completion of a minimum of 16 hours of nonlanguage coursework selected from the list given below; this coursework must be distributed in three of the areas listed. Students may earn a certificate in Asian studies if they complete the required nonlanguage courses plus one year of introductory study of an Asian language chosen from among the four currently available through the heritage languages program—Chinese, Hindi, Japanese, Korean—or demonstrate the equivalent skill or proficiency by an examination.

distributed in three of the following areas: ANTH* 38096, Individual Investigation in Anthropology (3) ART 42022, The Arts of China (3) 42023, The Arts of Japan (3) GEOG 37079, Geography of South Asia (3) HIST 31112, Chinese Civilization (3) 41112, History of Modern China (3) 41114, Economic History of E. Asia in Modern Times (3) 41116, History of Japan (3) 42297, Collog. on Contemporary China and Japan (3) * 49196, Individual Investigation (2-3) MUS 42151, Asian Music (3) * 45311, Chamber Music (1-2) POL 30530, Asian Politics (3) * 40996, Individual Investigation (1-3) * 40995, Selected Topics in Political Science (1-3) 8 hours or equivalent required for certificate CHIN 15101, 15102, 25201, 25202 (14) JAPN 15101, 15102, 25201, 25202 (14) HRTG 10101, 10102, 20201, 20202 (14)

TOTAL

16-24

Minimum cumulative 2.00 GPA required.

Biological Sciences

Prerequisites:
CHEM 10060, 10061, General Chemistry I, II (8)
10062, 10063, Gen. Chemistry Lab I, II (2)
MATH 12001, Algebra and Trigonometry (4)
Core Courses:
BSCI 10110, Biological Diversity4
10120, Biological Foundations 4
20140, Cell Biology
30156, Elements of Genetics

	40163, Organic Evolution		3
Electi	ve Courses:		
	Choose one from:		4
BSCI	30171, General Microbiology (4)		
	30267, Plant Physiology (4)		
	30360, General Ecology (4)		
	40430, General Physiology (4)		
		TOTAL	2

Minimum cumulative 2.00 GPA required.

British Studies

(Barrett L. Beer, Coordinator, 305 Bowman Hall)

The British studies program provides a concentration in British literature, history and civilization. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

three of the following representing at least two literary periods: ENG 31002, History of the English Language (3) 34001, British Literature to 1500 (3) 34002, British Literature from 1500 to 1660 (3) 34003, British Literature from 1660 to 1800 (3) 34004, British Literature from 1800 to 1900 (3) 34005, British and Irish Literature from 1900 - Present (3) 34011, World Literature in English (3) 34055, Shakespeare (3) 34065, Chaucer (3) 34095 Topics: Major Author Studies (British) (3) three of the following: HIST 31027, History of England to 1688 (3) 31028, History of England Since 1688 (3) 31029, History of the British Empire and Commonwealth Since 1815 (3)

41026, Tudor England, 1485-1603 (3)
41028, Hanoverian England (3)
41031, Modern British Intellectual History (3)
43697, Colloquium in Tudor and Stuart England (3)
43797, Colloquium on Victorian England (3)

British Civilization
**one of the following:*

ART 42036, Medieval Art (3)
42042, Northern Renaissance Art (3)

PHIL 31004, British Empiricism (3)

41077, British and American Thought (3)

^{*}These and other selected topics courses that focus on Asia may be counted toward the program if approved by the coordinator.

Appropriate specialized offerings may be substituted with approval of the British studies program coordinator.

TOTAL

21

Minimum cumulative 2.00 GPA required.

Cartography

(Ute J. Dymon, Coordinator, 438 McGilvrey Hall)

The cartography minor is intended to provide expertise in modern mapmaking. It is especially designed to meet federal governmental standards for the employment of cartographers.

Requirements:

•			
GEOG	29160,	Intro. to Maps and Map Analysis	
	39161,	Intro. to Cartography	
	39162,	Intro. to Cartography Lab	
	49165,	GeoMapping	
Electiv	ves*	3-8	
	At leas	st two of:	
GEOG	39080,	Introduction to Geographical	
		Information Systems (3)	
	49162,	49163, Advanced Cartography and Lab (4)	
	49198,	Research in Cartography and GIS (3)	
	49210,	49211, Earth Imagery and Lab (4)	
	At leas	st two of:	
GEOG	39002,	Statistical Methods in Geography (3)	
MATH	10041,	Elementary Probability and Statistics (3)	
	12001,	Algebra and Trigonometry (4)	
	12002,	Analytic Geometry and Calculus I (5)	
		TOTAL	30

*Electives may be chosen from any of the above or from: GEOG 21062, 31064, 32061; GEOL 21062, 21080; ARCH 45631, 45630; ART 13701. Other electives may be appropriate but must have prior approval of the program coordinator.

Minimum cumulative 2.00 GPA required.

Chemistry

Choose either:
CHEM 10060, 10061, Gen. Chemistry I, II (8)
10062, 10063, Gen. Chem. Lab I, II (2)
or
CHEM 10960, 10961, Honors General Chemistry (10)

one oburses.
CHEM 30100, Aqueous Equilibrium
30475, Organic Chemistry Lab
Choose one from:
CHEM 20481, Basic Organic Chemistry (4)
30481, Organic Chemistry (4)
Choose 4 hours from:
CHEM 30101, Quantitative Analysis (2)
30102, Solution Chemistry Lab (2)
30284, Introductory Biological Chemistry (4)
Choose 3-4 hours from: (if not taken above)
CHEM 30101, Quantitative Analysis (2)
30102, Solution Chemistry Lab (2)
30113, Instrumental Analysis (4)
30284, Introductory Biological Chemistry (4)
30476, Organic Chemistry Lab (2)
20482, Basic Organic Chemistry (2)
or
30482, Organic Chemistry (2)
40555, Elementary Physical Chemistry (3)
or
40556, Elementary Physical Chemistry (3)

Minimum cumulative 2.00 GPA required.

Classics

40567, Basic Concepts of Physical Chemistry (4)

TOTAL

25-26

(Jennifer Larson, Coordinator, 304-B Satterfield Hall)

Students wishing a minor in classics must choose a program with an emphasis in either Greek or Latin.

Latin or Greek

Prerequisites:

Core Courses:

	1		
LAT	16201, 16202, Elementary Classical Latin I, II (8)		
	or		
GRE	14201, 14202, Elem Classical Greek I, II (8)		
Note:	Prerequisites may be waived by demonstrated proficiency.		
Classical Language and Literature Courses:			
LAT	26201, Intermediate Latin I: (3)		
	26202, Intermediate Latin II: (3)		
	or		
GRE	24201, Inter. Class. Greek I (3)		
	24202, Inter. Class. Greek II (3)		

Classical Culture Courses:				
CLAS 21404, The Greek Achievement (3)				
21405, The Roman Achievement (3)				
41097, Colloquium in Classics (3)				
41301, Classical Mythology (3)				
41401, Greek Archaeology and Art (3)				
41402, Roman Archaeology and Art (3)				
41503, Greek Literature in Transl. (3)				
CLAS/HIST41006, Roman History (3)				
HIST 41003, History of Ancient Greece (3)				
Any Latin course at the 30000-40000 level (3)				
Any Greek course at the 30000-40000 level (3)				
TOTAL	1			

Minimum cumulative 2.00 GPA required.

Climatology

(Scott Sheridan, Coordinator, 410 McGilvrey Hall)

The climatology program provides an overview of the atmospheric sciences along with detailed study of world climates and current issues in climatology. This program enables students to apply knowledge of climate to the solution of problems in other disciplines and prepares students for graduate studies in atmospheric science.

		TOTAL	25-27
	41050,	Polar and Alpine Environments (3)	
GEOG	41062,	Advanced Physical Geography (3)	
GEOL	21080,	Oceanography (3)	
PHY	13002,	General College Physics II (5)	
MATH	12003,	Analytic Geometry and Calculus II (5)	
CS	10061,	Intro. to Computer Programming (3)	
CHEM	10060,	General Chemistry I (4)	
	One of	the following	3-5
	41265,	Urban Climatology	3
	31064,	Principles of Climatology	3
	31062,	Fundamentals of Meteorology	3
GEOG	21062,	Physical Geography	3
PHY	13001,	General College Physics I	5
MATH	12002,	Analytic Geometry and Calculus I	5

Minimum cumulative 2.00 GPA required.

Comparative Literature

(Thomas J. Hines, Coordinator, 302-E Satterfield Hall)

The comparative literature minor allows students to combine coursework in the literatures of several cultures with interdisciplinary courses that support and clarify the relations between these literatures.

Prerequisites:

ENG 10001, 10002, College English I, II (6)

14 hours in an appropriate language or equivalent in established proficiency.

Comparative Literature Core

6 hours of one national literature (other than major) chosen from one of the lists of courses below

ENG 33001, U.S. Literature to 1865 (3)

33002, U.S. Literature from 1865 to 1945 (3)

33003, U.S. Literature from 1945 to Present (3)

34001, British Literature to 1500 (3)

34002, British Literature from 1500 to 1660 (3)

34003, British Literature from 1660 to 1800 (3)

34004, British Literature from 1800 to 1900 (3)

34005, British and Irish Literature from 1900 - Present (3)

34055, Shakespeare (3)

34065, Chaucer (3)

35101, Literature and Other Disciplines (3)

39195, Topics in Drama (3)

39295, Topics in Poetry (3)

39395, Topics in Fiction (3)

FR 33335, Intro. to French Theatre (3)

33336, Intro. to French Poetry (3)

33337, Intro. to French Novel (3)

43333, Old French Literature (3)

43354, Classical French Drama (3)

43356, Moliere (3)

43358, Classicism Outside the Drama (3)

43360, Voltaire and Encyclopedists (3)

43362, Rousseau and Pre-Romanticism (3)

43364, French Romanticism (3)

43365, 19th-Century French Theatre (3)

43366, Studies in 19th-Century Novel (3)

43368, 20th-Century French Novel (3)

43370, 20th-Century French Theatre (3)

43374, La Pléiade (3)

GER 31303, Introduction to German Literature (3)

nlus any ana of the fallowing.

	plus any one of the following:
	31335, 19th-Century German Drama and Lyric (3)
	31337, 20th-Century German Prose (3)
	31338, 20th-Century German Drama and Lyric (3)
	41331, History of German Literature (4)
approp	priate "survey" course strongly recommended
GRE	34350, Adv. Prose Authors (Greek) (3)
	34370, Plato, Apology and Phaedo (3)
	34371, Homer (3)
	44352, Greek Drama (3)
ITAL	35331, Early Italian Literature (3)
	35332, Recent Italian Literature (3)
	35421, Italian Civilization (3)
	35597, Colloquium in Italian Literature (3)
LAT	26202, Intermediate Latin II: Cicero (3)
	36171, Vergil (3)
	36351, Latin Comedy (3)
	36373, Advanced Prose Authors (3)
	46095, Selected Topics in Latin (2-3)
	46352, Elegiac Poets (3)
	46374, Juvenal, Satires; Martial, Epigrams (3)
	46375, Lucretius (3)
MCLS	37143, African-Brazilian Experience in Culture and Literature (3)
PORT	37330, Early Brazilian Literature (3)
	37331, Recent Brazilian Literature (3)
	37421, Luso-Brazilian Civilization (3)
	47095, Selected Topics (3)
RUSS	32303, Modern Writers (3)
	plus any one of the following:
	32325, Russian Poetry and Folklore (3)
	32350, Russian Prose (3)
	32354, Russian Drama (3)
	42351, Survey of Russian Soviet Lit (4)
арргор	oriate "survey" course strongly recommended
SPAN	38330, Early Spanish Literature (3)
	38331, Recent Spanish Literature (3)
	38334, Early Spanish-American Literature (3)
	38335, Recent Spanish-American Literature (3)
	48350, Don Quixote (3)
	48354, Neoclassicism and Romanticism (3)
	48356, Golden Age Prose (3)
	48358, 19th-Century Novel (3)
	48366, Novel of the Mexican Revolution (2)
	48370, Modernismo in Spanish-America (3)
	48372, Spanish-American Novel I (3)
	48373, Spanish-American Novel II (3)
	48374, Modern Spanish-American Drama (3)
	48376, Contemporary Spanish-American Short Story (3)
Literat	ture Electives12

12 hours of electives chosen from junior and senior (30000- and 40000-level) courses in literature (including courses offered in translation) other than the major from either of the following departments: English or Modern and Classical Language Studies. Electives may also be chosen from related disciplines such as history, philosophy, art history and music, provided the courses are related, not in the student's major field, and each substitution is approved by the coordinator for the comparative literature program.

TOTAL

26

Minimum cumulative 2.00 GPA required.

Computer Science

	TOTAL	18
cours	te may cause the total number of hours to increase above 12.	
es, st	udents are warned, however, that the prerequisites for a	
be in	courses numbered 40000 or above. In choosing these cours-	
chose	en from upper division CS courses. Six of these hours must	
In cor	nsultation with the student's minor adviser, 12 hours must be	
Elect	ive Courses:	
	33001, Data Structures	
CS	23021, Introduction to Object-Oriented Programming 3	
Core	Requirements:	
MATH	H**12001, Algebra and Trigonometry (4)	
CS	10051, Introduction to Computer Science (4)	
FICIC	equisites:*	

^{**}Math 12001 is a prerequisite which should be bypassed by students with sufficient background.

Minimum cumulative 2.00 GPA required.

Economics

ECON 22060, Principles of Microeconomics				
22061, Principles of Macroeconomics				
plus 12 additional upper-division credits12				
(which may include 32040 or 32041 if not selected below) elect-				
ed with the approval of the student's adviser				
Choose one from:				
ECON 32040, Intermediate Microeconomic				
Theory and Applications (3)				
32041, Intermediate Macroeconomic				
Theory and Policy (3)				

Note: It is highly recommended that students electing the economics minor complete at least one mathematics course at the MATH 11011 level or at a higher level before registering for upper-division economics courses.

Minimum cumulative 2.00 GPA required.

Core Requirement

English

	25002, Literature in English II		3
	30001, Introduction to English Studies		3
Elect	tives		3
Disti	ribution requirements		9
One (course listed in the major from each of the fo	ollowing three are	eas:
Histo	orical courses		
Genr	re Studies, Cultural Studies, Literary Theor	у	
Writi	ing and Language Studies		
		TOTAL	*2
*At le	ast 12 hours must be upper-division.		
Mini	mum cumulative 2.00 GPA required.		
	French		
Prer	equisites:		
FR	13201, Elementary French I (4)		
	13202, Elementary French II (4)		
	23201, Intermediate French I (3)		
	23202, Intermediate French II (3)		
Note	e: Prerequisites may be waived by demons	trated proficiend	cy.
Cour	rses.		

 33215, French Phonetics and Diction
 3

 33211, French Conversation
 3

 33212, French Composition
 3

TOTAL

 plus 3 hours at the 40000 level
 3

 Two of the following:
 6

Geography

GEOG	10160, Intro. to Geography	3	
	29160, Intro. to Maps and Map Analysis	3	
plus 1	hours in geography		
at leas	9 of which must be upper-division		
	Choose one from:		
GEOG	17063, World Geography (3)		
	17064, Geog. of the U.S. and Canada (3)		
		TOTAL	24

Minimum cumulative 2.00 GPA required.

Geology

Prerequisites:

CHEM 10060 (for which high school algebra or its equivalent is a prerequisite) is a prerequisite or corequisite for GEOL 23063; BSCI 10120 or 20560 is recommended as a prerequisite or corequisite for GEOL 34061.

Courses:

		TOTAL	24
	34061, Invertebrate Paleontology	4	
	32066, Geomorphology	4	
	31070, Petrology	4	
	23063, Mineralogy	4	
	11043, Earth History Lab	1	
	11042, Earth History	3	
	11041, Earth Dynamics Lab	1	
GEOL	11040, Earth Dynamics	3	

Minimum cumulative 2.00 GPA required.

German

plus 6 upper-division hours in culture and literature courses . . . 6

 ${\it Minimum\ cumulative\ 2.00\ GPA\ required.}$

33335, Intro. to French Theatre (3)

33336, Intro. to French Poetry (3) 33337, Intro. to the French Novel (3)

Minimum cumulative 2.00 GPA required.

German Studies

(Harold Fry, Coordinator, 109 Satterfield Hall)

The German studies program provides a concentration in German literature, language and culture. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

A proficiency in German equivalent to that of GER 21202, "Intermediate German II," plus GER 31201, "Intensive German Gram mar," is a prerequisite of the program and of the German literature and language courses included in it.

German Language

GER	31211, German Composition and Conversation 3	
Germa	an Literature and Culture	
GER	31303, Introduction to German Literature 3	
	31421, German Civilization	
Plus o	ne upper-division elective in German literature	
	or culture	
German History and Thought		
	Select two from:	
HIST	41040, History of Germany, 1648-1871 (3)	
	41041, History of Germany, 1871-Present (3)	
PHIL	31005, German Critical Philosophy (3)	
	TOTAL 18	

Appropriate specialized offerings may be substituted above as available with approval of the German studies program coordinator.

Minimum cumulative 2.00 GPA required.

Greek

Prerequisites:

GRE 14201, Elem. Classical Greek I (4) 14202, Elem. Classical Greek II (4) Note: Prerequisites may be waived by demonstrated proficiency. GRE 24201, Inter. Class. Greek I (3) 24202, Inter. Class. Greek II (3) 34370, Plato Apology and Phaedo (3) 34371, Homer (3) CLAS 21404, The Greek Achievement (3)

41097, Colloquium in Classics (3)

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41301, Classical Mythology (3)
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41401, Greek Art and Arch (3)

41503, Greek Literature in Translation (3)

HIST 41003, History of Ancient Greece (3)

Any Greek course at the 30000-40000 level (3)

TOTAL

18

Minimum cumulative 2.00 GPA required.

Health-Care Ethics

(Deborah Barnbaum, Coordinator, 320 Bowman)

The health-care ethics program is a concentration of courses offered by disciplines within the university concerned with health care practices and the education of health care practitioners. The minor is designed to heighten students' awareness of what constitutes ethical concerns, problems and activity from the perspectives of various kinds of health care practitioners, clients and institutions. Various views of what constitutes the ethical are treated in the ethics courses so that the student is alerted both to the conceptual dimension of ethical activity and the existence of differing and conflicting modes of ethical reasoning, with the "Health Care Ethics" course attempting to sketch appropriate action in the light of these realities.

Students wishing to enter this program need to be certain that required prerequisites of many of the courses within the program are met.

Requi	red courses:		
BSCI	30050, Human Genetics		
HED	21050, Health Behavior and Advocacy 3		
SOC	42563, Sociology of Health and Health Care 3		
PHIL	40005, Health Care Ethics		
	21001, Intro to Ethics		
	plus 9 additional hours from lists below9		
of wh	of which no more than 6 hours may be taken in any one cluster		
Cluster I:			
BSCI	20021, Basic Microbiology (3)		
	40020, Biology of Aging (3)		
Cluste	er II:		
SOC	42010, Death and Dying (3)		
Cluster III:			

42041, Health Counseling (3)

Cluster IV:

HFD

PHIL * 21003, Ethics in Contemporary Contexts (3)

14020, Intro. to Med. Technology (2)

Cluster V:

HONR**30297, Junior Colloquium (3)

ILS***49993, Human Values in Medicine (1-5)

TOTAL

*PHIL 21003, Ethics in Contemporary Contexts (3), is recommended but not required for all health care ethics students.

**Pertinent to health care issues. Restricted to honors students or with permission of instructor.

***With prior approval of coordinator of the minor in health-care ethics.

Minimum cumulative 2.00 GPA required.

Hellenic Studies

(S. Victor Papacosma, Coordinator, 321 Bowman Hall)

The Hellenic studies program provides a minor in Greek history, classical Hellenism and modern Hellenism. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

History of Greece

program.

Thistory of directe			
HIST	41003, Hist. of Ancient Greece		
	31009, Hist. of Byzantine Civilization $\hdots 3$		
	31050, Hist. and Society of Modern Greece $\ldots\ldots3$		
Class	ical Hellenism		
	6-9 hours from:		
CLAS	41503, Greek Literature in Translation (3)		
	41301, Classical Mythology (3)		
	41401, Greek Archaeology and Art (3)		
	or		
ART	42031, Greek Art and Archaeology (3)		
PHIL	31001, Ancient Greek Philosophy (3)		
HIST	41004, Hellenic Contributions to Western Civilization (3)		
Mode	Modern Hellenism		
	<i>3-6 hours from:</i>		
A&S	30095, Studies in the Eastern Christian World (3)		
HIST	41049, History of the Balkans:		
	18th Century to 1914 (3)		
	41050, History of the Balkans: 1914 to Present (3)		
	41079, History of the Immigrant in America (3)		
	48997, Colloq. on the Immigrant in American History (3)		
Individual investigation on one of the following: $\dots 3$			
Byzantine Empire (3)			
Modern Greece (3)			
Greek Immigrants in America (3)			

Appropriate specialized offerings may be substituted as available

and with prior approval of the coordinator of Hellenic Studies

TOTAL 3

Minimum cumulative 2.00 GPA required.

History

	TOTAL 2	24
Africa	n, Ancient, Medieval or Far Eastern History.	
pean History, including English and Russian histories; 3 hours		
including at least: 3 hours of American History; 3 hours of Euro-		
plus 12 upper-division hours		
	12071, History of U.S.: Modern Period	
	12070, History of U.S.: Formative Period 3	
HIST	11050, 11051, History of Civilization I, II 6	

Minimum cumulative 2.00 GPA required.

Jewish Studies

(David Brenner, Coordinator, 314 Satterfield Hall)

The Jewish studies program provides a concentration in Jewish history and literature, with related Middle Eastern coursework. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

Each year five \$4,000 scholarships will be awarded to students pursuing the minor program in Jewish studies. For more information, contact the program coordinator or the Office of Student Financial Aid, Michael Schwartz Center.

Students are to complete 21 hours from the following, with at least one course from each of three of the four nonlanguage categories indicated:

Middle Eastern Studies

HIST 31125, Zionism and Israel (3) 31126, History of the Middle East (3)

Jewish History

HIST 31127, Ancient and Early Medieval Jewish History (3) 31128, Late Medieval and Modern Jewish History (3) 41129, The Holocaust: The Destruction of European Jewry, 1938-1945 (3)

		TOTAL	24
	46792, Internship	-	
	45096, Individual Investigation		
JUS	45093, Variable Title Workshop		
12 up _l	per-division JUS hours with the excepti	on of:	.12
	26702, Criminology		3
	26701, Corrections		3
	22300, Police Role		3
JUS	12000, Intro. to Justice Studies		. 3
	Justice Studies		
Minim	num cumulative 2.00 GPA required.		
		TOTAL	35
the Et	hnic Heritage major.		
or equ	ivalent in proficiency. These courses als	o fulfill core II of	
Ū	12101, 12102, 22104, 22105		.14
,	uage Cognate:		
	rior approval of the coordinator of the Jewis		
Appro	priate specialized offerings may be substitu		nd
	41095, Special Topics: Jew in German	•	
GER	23532, Yiddish Drama in Translation (3	• ,	
ENG GFR	35201, The Bible as Literature (3) 23531, Yiddish Short Stories in Transla	tion (2)	
Litera			
SOC	42091, Special Topics in Sociology (3)		
	48997, Colloq. on the Immigrant in Am	erican History (3	3)
HIST	41079, History of the Immigrant in Am	. ,	
Jews	in the Larger Society		
	38095, Selected Topics (3)		

Latin

Prerequisites:			
LAT	16201, 16202, Elem. Latin I, II (8)		
Note: P	rerequisites may be waived by demonstrated proficiency.		
Latin L	anguage and Literature Courses:		
LAT	26201, Inter. Latin I: Readings (3)		
	26202, Inter. Latin II: Readings (3)		
	36171, Vergil (3)		
	36170, Cicero (3)		
Roman Culture Courses:			
CLAS	21405, The Roman Achievement (3)		
	41301, Classical Mythology (3)		
	41402, Roman Archaeology and Art (3)		

41097, Colloquium in Classics (3) CLAS/HIST 41006, Roman History (3) Any Latin course at the 30000-40000 level (3)

TOTAL 18

Minimum cumulative 2.00 GPA required.

Lesbian, Gay, Bisexual and Transgendered Studies

(Robert J. Johnson, Coordinator, 215 Merrill Hall)

The Lesbian, Gay, Bisexual and Transgendered (LGBT) Studies program is designed to allow students to explore sexuality and sexual minorities from a variety of perspectives. Students earning a minor in LGBT Studies select courses (totaling 21 hours) from the following list. No more than 6 hours counted toward the major may also be counted toward the LGBT minor. Selected or special topics or variable content courses with LGBT content may be counted toward the minor if approved by the coordinator.

Requirements:

	TOTAL 21
	42400, Self and Identity (3)
	42359, Social Movements (3)
	32570, Inequality in Society (3)
	32560, Family and Other Intimate Lifestyles (3)
SOC	22778, Social Problems (3)
POL	40820, Politics of Social Movements (3)
JUS	27311, Victimology (3)
	47070, AIDS: Issues, Education and Prevention (3)
HED	32544, Human Sexuality (3)
	48830, Human Behavioral Ecology and Evolution (3)
	10001, Intro. to American Studies (3)
	B - Select 2 courses*
PSYC	40625, Development of Gender Role and Identity (3)
500	or
SOC	42315, Sociology of Changing Gender Roles (3)
	40095, Special Topics (3)
	41114, Gay and Lesbian Theatre (3)
SOC	, , ,
	30376, The Novels of Pierre Loti (3)
Block	A - Select 3 courses*
AQJ	30196, Individual Investigation
1094	22069, Introduction to LGBT Studies

Minimum cumulative 2.00 GPA required.

^{*}Any Block A course can be used to fill the Block B requirement.

**May be substituted with the approval of the coordinator.

Lithuanian Studies

(David Brenner, Coordinator, 314 Satterfield Hall)

The Lithuanian studies program provides a concentration in Lithuanian history, culture and civilization. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

Each year a \$1,000 scholarship will be awarded to a student pursuing the minor/certificate program in Lithuanian studies. For more information, contact the coordinator of the program or the Office of Student Financial Aid, Michael Schwartz Center.

Lithuanian History

	Choose one of:	
HIST	41044, Russia from Its Origins to 1801 (3)	
	41045, Russia, 1801 to Present (3)	
	Choose one of:	
HIST	45597, Colloq. in Russian History (3)	
	48997, Colloq. on the Immigrant in American History (3)	
GEOG	40195, Special Topics: Minorities in Soviet Union (3)	
A&S	40197, Russian Area Studies Colloq. (3)	
Lithua	nian Culture	
	Choose two of:	
A&S	30095, Special Topics: Lithuanian	
	Culture and Civilization (3)	
	30095, Special Topics: Lithuanian Literature (3)	
MUS	42141, Folk and Traditional Music of	
	Western Continents (3)	
	or	
	Appropriate Lithuanian folk dance offering (3)	
Appropriate specialized offerings may be substituted as available		
and with prior approval of the coordinator of Lithuanian studies.		
Lithuanian Civilization		
HRTG	30095, Special Topics (3)	
HRTG	30095, Special Topics (3)	
Language Cognate: Lithuanian-HRTG		
HRTG	10101, 10102, 20201, 20202	
or equivalent in proficiency. These courses also fulfill core II of		
the ethnic heritage major.		

32

TOTAL

Mathematics

*Math 12001, which is a prerequisite for Math 12002, should be bypassed by students with sufficient background.

TOTALS

18

Minimum cumulative 2.00 GPA required.

Minimum cumulative 2.00 GPA required.

North Atlantic Security Studies

(Lyman L. Lemnitzer Center for NATO and European Union Studies, 124 Bowman Hall)

The Lyman L. Lemnitzer Center for NATO and European Union Studies has been established at Kent State to provide an institutional setting for the scholarly examination of the historical, political, economic, cultural and military experiences of the North Atlantic Treaty Organization. The North Atlantic security studies minor/certificate program is an interdisciplinary program combining courses focused on NATO and related security issues.

Core C	Courses (required)3
HIST	47597, Colloquium on NATO
Electiv	/es:18
18 hou	ırs chosen from at least two of the following areas:
ECON	42075, International Economic Relations (3)
POL	30510, International Organization and Law (3)
	30520, European Politics (3)
	40510, U.S. Foreign Policy (3)
HIST	31029, History of British Empire and
	Commonwealth Since 1815 (3)
	41024, Modern European History, 1914-1945 (3)
	41025, Modern European History: 1945 to Present (3)
	41045, Russia, 1801 to Present (3)
	41050, History of the Balkans: 1914 to Present (3)
	46597, Colloquium in 20th-Century
	European Diplomacy (3)
GEOG	37066, Geography of Europe (3)
	TOTAL 2

Note: No more than 9 hours counted for the minor may be in the major field.

Minimum cumulative 2.00 GPA required.

Pan-African Studies

Core (Courses:		
PAS	37000, Oral & Written Discourse in PAS3		
	37010, Research Methods in Pan-African Studies3		
<i>Two courses from:</i>			
	13001 and 13002, Foundations in Pan-African		
	Studies I & II (6)		
	or		
	23001 and 23002 Black Experience L II (6)		

Choose one from:
22200, Introduction to African Arts (3)
34000, Introduction to African World View (3)
Choose one from:
35100, Afr. Am. Soc. Pol., & Econ. Systems (3)
35200, Afr. Soc., Pol. & Econ. Systems (3)
Elective Courses: (upper division hours)6
TOTAL 2

Minimum cumulative 2.00 GPA required.

Paralegal Studies

(Hedi Nasheri, Coordinator, 113 Bowman Hall)

Kent State University offers a minor in paralegal studies in conjunction with a four-year baccalaureate degree (B.A. or B.S.). The paralegal studies minor program at Kent State University's Kent Campus has been approved by the American Bar Association and is conducted in the Department of Justice Studies, which is part of the College of Arts and Sciences.

The paralegal studies program at Kent State University is designed to educate prospective paralegals in all areas of law. Graduates receive a certificate and are prepared for careers in law firms, government agencies, corporations, banks and other business entities. The program combines a liberal arts/general education background with law-related specialty courses to provide the graduate with communication skills, knowledge of the legal system and practical hands-on experience.

To be admitted to the program, the student must have a minimum 2.00 GPA and must be enrolled in a four-year baccalaureate program at Kent State University. The total number of hours required for the minor program is 30 credit hours of specialty and general law-related courses. All students must complete an internship in the final stages of their coursework. Classes are offered during the day and evening and sometimes on Saturday. Specialty courses are offered during summer school as well. Both full- and part-time students are welcome.

Category I

Musi	t complete the following sequence of Specialty Courses:	
JUS	*18000, Intro. to Paralegal Studies	. 3
	* 28001, Legal Research and Writing	. 3
	* 28004, Prin. and Practice of Litigation	. 3
Musi	t complete three from the following:	.9
JUS	* 28003, Family Law and Procedure (3)	
	* 28007, Estate and Probate Administration (3)	

	38003, Administrative Law and Process (3)	Elective Courses:
	38005, Tort Law (3)	four additional philosophy courses
	38006, Applied Legal Research and Litigation (3)	At least three of these courses must be upper-division. The
	47111, Civil Law and Procedure (3)	fourth core course may be elected. At least one course in the his-
Catego		tory of philosophy must be included:
_	complete:	PHIL 31001, Ancient Greek Philosophy (3)
JUS	36792, Internship in Paralegal	31002, Medieval Philosophy (3)
Catego	-	31003, Continental Rationalism (3)
_	complete 9 hours from the following law related courses:	31004, British Empiricism (3)
JUS	22100, Basic Interviewing (3)	31005, German Critical Philosophy (3)
303		
	26704, Law and Society (3)	31006, 19th-Century Philosophy (3)
	33200, Criminal Law (3)	31010, 20th-Century Philosophy (3)
	34200, Criminal Procedures and Evidence (3)	31020, American Philosophy (3)
	38007, Human Service Agencies and the Law (3)	At least one course must be at the 40000-level.
	46706, Juvenile Justice (3)	PHIL 40093, 49996 and 49999 may not be counted toward the
	47211, Court Functions (3)	minor.
FIN	26070, Introduction to Law (3)	TOTAL 21
	36071, Critical Issues in Law Management (3)	
	36073, Real Estate Law (3)	Minimum cumulative 2.00 GPA required.
	26074, Legal and Regulatory Environ. of Business (3)	
POL	30301, Intro. to Public Admin. (3)	
	30130, Courts (3)	Physics
	40182, Constitutional Law: Gov. Struc. and Func. (3)	
	40183, Constitutional Law: Civ. Rights and Liberties (3)	Prerequisites:
PHIL	31035, Philosophy and Justice (3)	MATH 12001, Algebra and Trigonometry (4)
	41025, Philosophy of Law (3)	12002, 12003, Analytic Geometry and Calculus I, II (10)
ACCT	33000, Fund. Tax Procedures (3)	Courses:
	or	PHY 23101, 23102, General University Physics I, II 10
Any sp	pecific course listed above not used to complete the	30020, Intermediate Physics Lab
specia	Ity minor	35101, Mechanics I
	TOTAL 30	36001, Introductory Modern Physics
		plus 5 hours in physics 5
*Justice	e Studies courses with the asterisk are to be cross listed as	at least 2 of which must be upper-division
LEGT	(Legal Assisting Technology).	TOTAL 23
		TOTAL 23
Note: A	A maximum of <u>9 credit hours</u> from the major may be used	Minimum cumulative 2.00 GPA required.
	pplete the requirements of the minor in paralegal studies.	,
	,	
Minim	um cumulative 2.00 GPA required.	Political Science
		Core Courses:
	Philosophy	POL 10100, American Politics
		plus 12 upper-division hours in Political Science*
Coro (Courses:	
		Two courses from:
	11001 Intro to Dhilocophy (2)	POL 10001, Introduction to Political Science (3)
PHIL	11001, Intro. to Philosophy (3)	10002, Political Thought (3)
	11009, Principles of Thinking (3)	10003, Political Economy (3)
	21001, Intro. to Ethics (3)	10004, Political Institutions (3)
	21002, Intro. to Formal Logic (3)	30001, Political Methods (3)

*POL 40996, Individual Investigation, and POL 40992, Public Service, may not be applied toward the upper-division hour requirement; POL 40991, Washington Program in National Issues, may be applied to meet the upper-division hour requirement; POL 40995, Special Topics, may be applied to meet the upper-division hour requirement as approved by the department.

Minimum cumulative 2.00 GPA required.

Pre-Law

(Thomas Hensley, Coordinator, 302 Bowman Hall)

No specific course of study is required for admission to law school. Most law schools, including all in Ohio, require a bachelor's degree for admission. The bachelor's degree may be from any discipline or college at Kent State University.

Law schools emphasize the value of reading comprehension, analytical skills, and a good command of written English. While these skills can be obtained in various ways, a general liberal arts background is recommended; other fields such as business are also useful. Courses in literature, American history and government are considered essential. Many prelaw students choose a major in political science, history, sociology, psychology, economics or English. A B.G.S. degree is suitable if carefully planned.

The pre-law minor is designed to provide a background for the study of law through challenging coursework that reinforces and extends the liberal arts foundation gained through the LERs, that provides advanced analytical and writing skills, and that introduces the student to the social and governmental structures that underlie the law. This minor may be combined with any major or field of concentration.

Law schools vary considerably in their admission requirements. Most place major emphasis on the overall GPA and the Law School Admission Test (LSAT) score. Students usually take this test about one year before beginning law school, but it is highly recommended that students take the exam in June before their last year as an undergraduate.

Students considering law as a career should seek individual advising from the prelaw advisers in the Department of Political Science or in the students' major department. A list of prelaw advisers is available in the college office. Consultation with a prelaw adviser is urged, regardless of the students' major, minor or college. The Department of Political Science also has available LSAT registration packets, prelaw planning guides, information on law school admis-

sions of Kent State University students and financial aid information. The department maintains a file of law school catalogs and also sponsors a prelaw club. Opportunities also exist for students to participate in mock trial and moot court activities as well as legal internships. The Department of Philosophy and the College of Continuing Studies also offer an LSAT Preparation Course before the June and October offerings of the LSAT. A bulletin board with law school and prelaw information is located on the third floor of Bowman Hall near the Department of Political Science.

II.	Requi	red courses:	2
	ENG	30064, Argumentative Prose	
	PHIL	11009, Principles of Thinking	
		21001, Introduction to Ethics	
		21002, Introduction to Formal Logic	
II.	Electiv	ve Courses:	2
	Studer	nts must take at least one course from each of the follow-	
	ing fo	ur areas:	
	Busine	ess:3	
	ACCT	23020, Introduction to Financial Accounting (3)	
	ECON	22060, Principles of Microeconomics (3)	
		42295, Special Topics: Law and Economics (3)	
	FIN	26074, Legal Environment of Business (3)	
	Histor	y and Philosophy:	
	HIST	41057, Eighteenth-Century America: 1714-1789 (3)	
		41058, Jefferson-Jackson Era, 1789-1848 (3)	
		41069, Recent America: U.S. 1929 to Present (3)	
		41082, Constitutional History of the United States (3)	
	PHIL	31035, Philosophy and Justice (3)	
		41025, Philosophy of Law (3)	
	Englis	h:3	
	ENG	30001, English Studies (3)	
		33001, U.S. Literature to 1865 (3)	
		33002, U.S. Literature from 1865 to 1945 (3)	
		33003, U.S. Literature from 1945 to Present (3)	
		33011, African-American Literature (3)	
	Social	Science:	
	JUS	33200, Criminal Law (3)	
		47111, Civil Law and Procedure (3)	
		47211, Court Functions (3)	
	POL	30100, American Political Theory (3)	
		30130, Courts (3)	
		40182, Constitutional Law - Government Powers (3)	
		40183, Constitutional Law - Civil Rights and Liberties (3)	
		TOTAL 2	4

No more than two courses counted toward the students' major may also be counted toward the pre-law minor.

It is recommended that students pursuing the pre-law minor give strong consideration to the following courses in fulfillment of the LERs or college General Requirements: In the humanities and fine arts category, HIST 12070 and 12071, COMM 15000 and 26000, and PAS 23001 and 23002; in the social sciences category, JUS 12000, ECON 22061 and POL 10100. Students are strongly encouraged to consider prerequisites of advanced courses in the pre-law minor as they select their LERs or college General Requirements.

Minimum cumulative 2.00 GPA required.

Psychology

	TO:	TAL	19
plus ar	ny 10 upper-division hours	10	
	31574, Research Methods in Psychology	3	
	21621, Quantitative Methods in Psychology .	3	
PSYC	11762, General Psychology	3	

Note: No more than 3 credit hours of PSYC 31498, 41495, 41498 and 41574 combined may be applied toward minor requirements in Psychology.

Minimum cumulative 2.00 GPA required.

Religion Studies

(David Odell-Scott, Coordinator, 320-M Bowman Hall)

The religion studies program relates various approaches and topics to a study of religion and of the expressions and impact of religion within human societies and cultures. In addition to the required core courses, students must elect one of the two cognate options. In the general option, the students may choose from among a rich variety of courses ranging from fine arts to hard sciences.

No more than 6 hours of coursework counted toward the major may be also counted toward the religion studies minor.

Students are to complete four courses (12 credits) selected from among at least three of the categories below:

Judaeo-Christian Tradition:

ENG 35201, The Bible as Literature (3)

Students selecting Option B below must take this course.

Comparative Religion:

A&S 30095, Special Topics: Studies in the Eastern Christian World (3)

30095, Special Topics: Varieties of Religion (3)

PAS 34000, Intro. to African World View (3)

PHIL 21020, Comparative Religious Thought I (3)

21021, Comparative Religious Thought II (3)

Social Patterns of Religion:

ANTH 38250, Religion: A Search for Meaning (3)

SOC 42561, Religion: Sacred and Secular Perspectives (3)

Philosophy of Religion:

PHIL 31065, Phil. of Religious Exper. (3)

41010, Problems in the Philosophy of Religion (3)

Students select either Option A (General) or Option B (Catholic Thought)

A. GENERAL

Choose 9 hours, at least two areas must be represented.

Religion and The Arts:

ART 22006, 22007, Art History I, II (6)

42036, Medieval Art (3)

MUS 42271, Choral Literature: The Anthem (3)

42331, Music in Worship (3)

42111, African Music and Cultures (3)

42151, Asian Musics (3)

Religion and The Sciences:

GEOG 32061, Cultural Geography (3)

GEOL 11040, Earth Dynamics (3)

PHY 11030, Seven Ideas that Shook the Universe (3)

Religion and History:

HIST 31009, History of Byzantine Civilization (3)

31127, Ancient and Early Medieval Jewish History (3)

41097, Colloquium: Saints, Monks, and the Medieval Community (3)

41016, The Protestant and Catholic Reformations (3)

Religion and The Classics:

CLAS 41301, Classical Mythology (3)

41503, Greek Literature in Translation (3)

HIST 41004, Hellenic Contributions to Western Civ. (3)

PHIL 31001, Ancient Greek Philosophy (3)

B. CATHOLIC THOUGHT

Choose 11-12 hours, at least one course from each area.

English:

ENG 31055, Literature and Other Disciplines (3)

A&S 3/40095, Special Topics: Classics of Christian Lit. (3)

3/40095, Special Topics: Myth and Religion in Literature (3)

History/Arts and Sciences:

HIST 41016, Protestant and Catholic Reform. (3)

A&S 3/40095, Special Topics: Modern Catholic Thought (3)

Classics:

HEBR 12101, Elem. Hebrew I (4)

12102, Elem. Hebrew II (4)

GRE 14201, Elementary Classical Greek I (4)

14202, Elementary Classical Greek II (4)

34351, New Testament in Greek (3)

TOTAL 21-24

Minimum cumulative 2.00 GPA required.

Romanian Studies

(Glee E. Wilson, Coordinator, 321 Bowman Hall)

The Romanian studies program provides a concentration in Romanian civilization, language and history. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

Romanian Civilization

GEOG 37050, Geography of Russia and the
Commonwealth States3
HIST 31051, Romanian Civilization
Appropriate political science offering
Romanian Language and Literature
Special Topic—(as available)
Language Cognate
HRTG 10101, 10102, 20201, 20202
or equivalent in proficiency. These courses also fulfill core II of
the Ethnic Heritage major.
Studies in Romanian Civilization*
6-9 hours of the following when appropriate topics pertinent to
Romania or Romanian culture and civilization are offered.
HIST 38095, Selected Topics in History: Romania (3)
38997, Colloquium in History: Romania (3)
41079, History of the Immigrant in America (3)
48997, Colloq. on the Immigrant in American History (3)
49196, Individual Investigation-Romanian History (3-5)
POL 40996, Individual Investigation (appropriate topic) (1-3)
Cognate Area* At least one of two (if only 6 hours above): 3-6
HIST 31009, History of Byzantine Civilization (3)
41003, History of Ancient Greece (3)
41006, Roman History (3)
41010, The Early Middle Ages (3)
41044, Russia from its Origins to 1801 (3)
41045, Russia: 1801 to Present (3)
41049, Balkans to 1914 (3)
41050, Balkans: 1914 to Present (3)
EXPR 30295, Special Topics: History of Orthodox Church (3)

*Appropriate specialized offerings may be substituted as available and with prior approval of the coordinator of the Romanian studies program.

Minimum cumulative 2.00 GPA required.

Russian

Prerequisites:

RUSS 12201, 12202, Elem. Russian I, II (8) 22201, 22202, Intermed. Russian I, II (6)

Note: Prerequisites may be waived by demonstrated proficiency.

Courses:

TOTAL
plus 6 upper-division hours in literature courses 6
32421, Russian Civilization 4
32303, Modern Writers
32211, Composition and Conversation
RUSS 32207, Russian Conversation
RUSS 32207, Russian Conversation

18

Minimum cumulative 2.00 GPA required.

Russian Studies

(Brian Baer, Coordinator, 308-B Satterfield Hall)

The Russian studies program provides a concentration in Russian literature, language and culture. This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

A proficiency in Russian equivalent to that of RUSS 22202, "Intermediate Russian II," plus RUSS 32207, "Russian Conversation," is a prerequisite of the program and of the Russian language and literature courses included in it.

Russian Literature and Culture

RUSS 32303, Modern Writers	3
32421, Russian Civilization	. 4
One upper-division Russian literature elective	3
RUSS 32325, Russian Poetry and Folklore, recommended	
Russian Language	
RUSS 32211, Composition and Conversation	3
Russian History	
HIST 41044, Russia from its Origins to 1801	3
41045, Russia: 1801 to Present	3
Soviet Period: One of the following:	3
GEOG 32061, Cultural Geography (3)	
A&S 40197, Russian Area Studies Colloquium (3)	

Appropriate specialized offerings such as GEOG 40195, Special Topics: The Peoples of the U.S.S.R. and East Europe (3) or PHIL 49995, Special Topics: Marxism (3) may be substituted above as available with approval of the Russian Studies program coordinator.

TOTAL 22

Minimum cumulative 2.00 GPA required.

Sociology

		TOTAL	21
at leas	st 9 of which must be upper-division		
plus 1	5 hours in sociology		
	22100, Sociological Analysis	3	
SOC	12050, Intro. to Sociology	3	

Minimum cumulative 2.00 GPA required.

Spanish

Prerec	quisites:
SPAN	18201, Elementary Spanish I (4)
	18202, Elementary Spanish II (4)
	28201, Intermediate Spanish I (3)
	28202, Intermediate Spanish II (3)
Note: I	Prerequisites may be waived by demonstrated proficiency.
Course	es:
SPAN	38211, Spanish Grammar and Composition 3
	38213, Spanish Reading and Conversation 3
	38215, Spanish Phonetics and Diction
plus 3	hours at the 40000 level
	Choose one from:
SPAN	38330, Early Spanish Literature (3)
	38331, Recent Spanish Literature (3)
	Choose one from:
SPAN	38334, Early Spanish-American Literature (3)
	38335, Recent Spanish-American Literature (3)
	Choose one from:
SPAN	38421, Civilization of Spain (3)
	38424, Culture and Civilization of Latin America (3)

Minimum cumulative 2.00 GPA required.

Urban Studies and Planning

(David Kaplan, Coordinator, 440 McGilvrey Hall)

The urban studies and planning program provides a focus in the development, structure and government of cities, with an emphasis on effective planning. In addition to the required core courses, students must complete a minimum of 6 hours in departments other than the major department from among the elective courses listed below. The electives chosen must be approved by the urban studies and planning adviser and all appropriate prerequisites must be met.

Core Courses:

ECON	42081, Urban Economics
GEOG	36065, Cities and Urbanization $\dots \dots 3$
POL	30150, Metropolitan Governance
SOC	32673, Urban Processes and Life Styles
Electiv	re Courses: Choose two from:
ECON	32084, Economics of the Environment (3)
GEOG	45085, Urban Transportation (3)
	46035, Marketing Geography (3)
	46065, Advanced Urban Geography (3)
	46070, Urban and Regional Planning (3)
	46092, Internship in Geography and Planning (6)
	49480, Field Studies in Geography (3)
One ap	propriate statistics course (3)
Offered	by Management and Information Systems, Geography,
Mather	matical Sciences, Political Science, Sociology.

Minimum cumulative 2.00 GPA required.

Women's Studies

TOTAL

18

(Kathe Davis, Director, Women's Studies Program, Women's Resource Center)

The women's studies program is designed to allow students to explore the position of women in human society from a variety of perspectives. Students earning a minor in women's studies select courses (totaling 21 hours) from the following list. No more than 6 hours counted toward the major may also be counted toward the women's studies minor. Courses with women's studies topics offered by the experimental program with the course number 30295 may be counted toward the minor, if approved by the coordinator; no more than two such courses may be counted. Other selected or special topics or variable con-

tent courses with women's studies topics may be counted toward the certificate if approved by the coordinator. A&S 30000, Colloquium in Women's Studies (3) 30001, Colloquium: Feminisms (3) Remaining course A&S 30000 or A&S 30001 may be applied to section II. A&S 40992, Practicum in Women's Studies (3) COMM35912, Gender and Communication (3) ENG 21002, Introduction to Women's Literature (3) 34021, Women's Literature (3) FCS 44022, Changing Roles of Man and Woman (3) HED 32544, Human Sexuality (3) 44025, Women's Health Issues (3) JUS 37411, Women in Crime and Justice (3) LEST 36085, Leisure and Culture (3) PAS 33110, The Black Woman: Historical Perspectives (3) PEP 25059, Sport in Society (3) PHIL 31040, Women and Philosophy (3) 32091, Seminar: Woman's Ways (3) 32091, Seminar: Ethics of Sex and Gender (3) POL 40170, Women and Politics (3) PSYC 40625, Development of Gender Role and Identity (3) SOC 42315, Sociology of Changing Gender Roles (3) Students register for A&S 30196, Individual Investigation, a guided independent project with a written and oral report. Admission controlled. See women's studies coordinator for further information. TOTAL

Minimum cumulative 2.00 GPA required.

The Writing Minor

(Department of English, 113 Satterfield Hall)

No coursework in this program may be taken pass-fail. The writing minor is intended to provide academic recognition to students who have demonstrated their ability in writing. The minor will help students establish eligibility for graduate programs in writing. It is also evidence of training that may be offered to prospective employers.

Students must have a 3.00 GPA in writing courses, junior standing and permission from the Department of English before enrolling in the required portfolio course.

Writing Courses:
ENG * 40010, Writing Portfolio
Choose four from:
No more than two at the 20000 level:
ENG * 20001, Business Writing (3)
* 20002, Introduction to Technical Writing (3)
* 20021, Intro. to Creative Writing (3)
* 30063, Advanced Business and Professional Writing (3)
* 30064, Argumentative Prose Writing (3)
* 30065, Expository Prose Writing (3)
* 30067, *30068, Fiction Writing I, II (3 each)
* 30069, *30070, Poetry Writing I, II (3 each)
JMC * 40037, Scriptwriting for Video and Film (3)
PAS * 24093, Black Writer's Workshop (3)
THEA 41026, Playwriting (3)
* 41027, Advanced Playwriting (3)
Cognate Courses: Choose three from:
At least one from each of the following groups and no more than
one at the 20000 level:
Group A: Language and Literary Criticism
ENG * 31001, Fundamental English Grammar (3)
* 31002, History of the English Language (3)
* 31003, Linguistics (3)
* 31095, ST: Linguistics (3)
* 39595, ST: Literary Criticism (3)
* 36001, Literary Criticism (3)
MCLS* 30230, Approaches to Translation (3)
PSYC* 40461, Psychology of Language (3)
Group B: Theory and Practice of Communication
COMM*25464, Argumentation (3)
25902, Communication Process (3)
* 35252, Theories of Rhetorical Discourse (3)
ENG * 41096, Indiv. Invest.: Kent State
University Press Internship (3)
* 49095, Sr. ST: Writing Internship Program (3)
JMC 20001, Media, Power, and Culture (3)
* 20004, Media Writing (3)
* 40022, Film as Communication (3)
PHIL * 31060, Aesthetics (3)
* 41080, Philosophy and Art in the Modern Age (3)
TOTAL 23-2

*Courses marked above with * have prerequisites that must be taken prior to enrollment. See the Catalog for prerequisite information.

Note: Students may apply to the program coordinator for permission to use special topic courses and other appropriate courses not listed in the curriculum to satisfy the cognate requirement. Students in the College of Fine and Professional Arts may request that specific courses in Art, Music, Journalism and Mass

Communication, or Communication Studies be accepted as meeting the two cognate area requirements.

Minimum cumulative 2.00 GPA required.

MINORS IN OTHER COLLEGES/SCHOOLS

In addition to the departmental minors and the interdisciplinary minors listed in the previous two sections, undergraduate students in the College of Arts and Sciences may select from a wide range of minors offered by other colleges and schools at Kent State University.

Education Minor

The minor in education is intended to allow students pursuing a traditional liberal arts degree to prepare for public school teaching. It is available only to students in those areas where the state of Ohio issues teaching licenses. The minor provides the professional coursework necessary for licensure.

Eligibility and Admission

The education minor is open to students pursuing a B.A./B.S. degree who are majoring in a teaching field such as biology, earth science, French, German, Latin, mathematics, Russian or Spanish. The College of Education does not offer single licenses in English or individual social science areas (economics, geography, history, political science, psychology or sociology): however, students majoring in one of those disciplines may be able to pursue licensure in the field of language arts or social studies. Students interested in a Social Studies License or Integrated Language Arts License should consult the College of Education about that possibility.

It should be noted that in many instances the combination of requirements for the education minor and for the field of concentration in the B.A. or B.S. degree program may total more than the 121 semester hours required for graduation. In such cases, students should expect to complete more than 121 hours.

Students entering the education minor must become familiar with the College of Education's Professional Requirements for admission to advanced study. Students must have completed all Professional Requirements, have a 2.50 cumulative GPA, a 2.60 GPA in the licensure content area with no grade lower than C, and be admitted to advanced study in order to take upper-division professional education coursework.

Students wishing to pursue this minor must complete an application with a program counselor in the College of Education, 306 White Hall, by appointment. Students are not enrolled in this

minor until they have met all admission requirements and followed all admission procedures.

Satisfactory completion of the education minor requirements including qualifying scores on the Praxis II, as stipulated by the College of Education, licenses the graduate to teach in the state of Ohio. Formal application for licensure must be submitted to the College of Education, 306 White Hall.

Course Requirements

Students majoring in program areas of other colleges but pursuing teacher licensure in the state of Ohio must complete the following education minor:

		TOTAL	37
****A	rea-specific courses (cohort seminars)	9	
***Methods courses in the student's major area			
	**42358, Student Teaching	4	
ADED	$\star\star42357,$ Secondary Student Teaching $$.		
	course in the student's major department		
*XXXX	49525, Inquiry into Professional Practice		
	39525, Inquiry into Schooling	3	
	29525, Inquiry into Teaching and Learning	g	
EDPF	19525, Inquiry into the Profession \ldots .		

- *Students in foreign languages take MCLS 40525, Inquiry into Professional Practice (3).
- **Students in foreign languages take MCLS 40657, Student Teaching of a Second Language (9).
- ***Students in foreign languages take the following courses: MCLS 30660, Orientation to Foreign Language Pedagogy (3) and MCLS 40660, Methods of Teaching Foreign Language (3).
- ****Students in foreign languages take the following courses:

 MCLS 40420, Foreign Languages and Culture Studies (3)

 MCLS 40654, Computers in Second Language Teaching (3)

 PSYC 40461, Psychology of Language (3)

Note: PSYC 11762 is a prerequisite for professional requirements and may be used to meet an LER in the social sciences.

Note: College of Arts and Sciences students pursing licensure in a science area must satisfy College of Education program math requirements as well as the College of Arts and Sciences Mathematics or Logic General Requirement.

Program Requirements

- A. The professional hours in the minor include student teaching (not available during summer session).
- B. When a difference exists between the two colleges' major requirements in teaching fields, students must also complete the specific major sequences required by the College of Education.

 This ensures that the students will meet licensure requirements.
- C. In order to be admitted to student teaching, students must attain a 2.50 cumulative GPA, a 2.60 GPA in the adolescence to young adult education content area with no grade lower than C, and must have grades of C or better in all professional coursework.
- D. In order to qualify for Ohio licensure, students must maintain a 2.50 cumulative GPA, a 2.60 GPA in the adolescence to young adult education content area with no grade lower than C, and pass the appropriate parts of the Praxis II exam.

Business Administration

The following minors within the College of Business Administration are available to all undergraduate students at Kent State University. Please see Pages 183-187 for program requirements.

Accounting

Business

Computer Information Systems

Economics

Finance

International Business

Management

Marketing

Military Studies

Education

The following minors within the College of Education are available to all undergraduate students at Kent State University. Please see Pages 227-228 for program requirements.

Community Health Education Human Sexuality

Fine and Professional Arts

The following minors within the College of Fine and Professional Arts are available to all undergraduate students at Kent State University. Please see Pages 236-240 for program requirements.

Advertising

Art History

Communication Studies

Crafts

Dance*

Design

Electronic Media

Family and Consumer Studies (General)

Gerontology

Hospitality Food Service Management

Media Literacy

Music*

Photo Illustration

Public Relations

Studio Art

Theatre

Visual Journalism

*Auditions are required before acceptance into the dance or music minors.

School of Exercise, Leisure and Sport

The following minors within the School of Exercise, Leisure and Sport are available to all undergraduate students at Kent State University. Please see Pages 265-267 for program requirements.

Athletic Coaching—Non-PE Majors

Leisure Studies

Sport Management for Non-Majors

Sports Medicine

Technology

The following minors within the School of Technology are available to all undergraduate students at Kent State University. Please see Page 324 for program requirements.

Electronic Technology Flight Technology Technology

To successfully complete a minor in another college, Arts and Sciences students must meet the cumulative GPA requirement for that minor.

THE LIBERAL ARTS AS A CAREER BASE

Study in the liberal arts can provide an excellent basis for a wide range of careers. A liberal arts program acquaints students with many different areas of human thought, behavior and experience. It can provide communication skills, analytical abilities and flexibility necessary for success in many fields of endeavor. Although some careers require specialized undergraduate training (for example, nursing and accounting), many others rely on a broad base of skills and knowledge. It has been predicted that today's college graduates will change careers an average of four times during their working lives. Such changes will involve not only new jobs but also entirely new responsibilities and duties. Changes of this sort require flexibility and adaptability. One of the most important functions of a liberal arts education is to provide a

broad knowledge base to make such flexibility and adaptability possible. Students with a sound background in the liberal arts will have the knowledge base required to shift directions and adapt thinking skills learned in one discipline to a variety of work fields.

The liberal arts also provide a good basis for advanced study. Students who pursue a major in the liberal arts may go on to graduate work in that or a related discipline. Many students pursue professional training through graduate programs in medicine, law, business and other areas upon completing a liberal arts degree. A liberal arts undergraduate program can provide both the preparation for such specialized advanced training and a general, broad background that supports and enhances professional work.

In addition, study in the liberal arts provides the foundation for lifelong learning. A broad knowledge base promotes intellectual curiosity and continued intellectual growth. Students with a good liberal arts education have a foundation for enriching their lives immeasurably with interests that go far beyond the demands of a particular career.

Programs Available

Students may prepare for a wide range of careers through many programs offered in the College of Arts and Sciences. In addition, students may combine coursework in the liberal arts with related programs in other colleges; some of those related programs are mentioned below.

Majors and Minors

The majors and fields of concentration offered in the College of Arts and Sciences (described earlier in this section of the *Catalog*) provide a sound basis in the liberal arts. This includes both traditional majors and interdisciplinary programs. In addition, the major may be enhanced by the addition of a minor program. The B.G.S. also requires a sound liberal arts base.

Certain majors and minors provide specific preparation for particular careers. For example, the various premedical majors prepare students for professional training in medicine. A major in Justice Studies can prepare students for work in corrections, police administration, the court system or other related fields. The writing program (minor) provides skills of particular use in any career that requires written communication. Work in geology, geography or cartography can prepare students for certain jobs with government agencies. Most programs in the liberal arts, however, are not tied to specific, individual careers. Instead, they provide the background upon which the career is built.

Electives and Enrichment

Students pursuing a degree in the College of Arts and Sciences will have a certain number of elective hours available. If carefully chosen, these electives can greatly enhance students' programs. Electives may profitably be used to acquire specialized training needed for a particular career. Alternatively, electives may be used for personal enrichment—to pursue areas of interest outside the intended career field. Electives chosen purely from personal interest may turn out to have an unexpected value in the future, such as when a career change develops.

Non- and Postdegree Study

Students who are not pursuing a degree or who have already received an undergraduate degree may also take coursework in the liberal arts. Subject to restrictions described above in the sections on admissions and registration, students may pursue such coursework for personal enrichment or for added preparation for a particular career.

Some Options Within Fields

The College of Arts and Sciences offers certain options within general fields of study; these fields of study can also include programs in other colleges. Some of these options are offered through regular majors, while others are programs outside the scope of a major.

Computer Science/Information Systems Programs
Students interested in careers in computer science and information
systems have several options at Kent State University. Within the College of Arts and Sciences, they may pursue the B.S. degree in Computer Science offered by the Department of Computer Science. This
program is described above in the "Bachelor of Science" section.

Also in the College of Arts and Sciences, students pursuing the B.S. degree in Physics may elect the computer hardware systems option in that program. This option introduces students to the basic concepts and techniques used in designing and implementing computer systems for measurement and control processes. This option also introduces the students to the use of computer systems in a real-time environment. This option is described above in the section on B.S. programs.

In the College of Business Administration, students may pursue a degree in information systems. This program is offered through the Department of Management and Information Systems; it is described in the "Business Administration" section of this *Catalog*.

For further information about any of these computer science options, students should consult the Departments of Computer Science, Physics, and Management and Information Systems, respectively.

Health-Related Programs

Kent State University has particularly strong programs in areas related to health. In the College of Arts and Sciences, programs in premedicine, preosteopathy, preveterinary medicine and predentistry are offered. These programs must be taken in conjunction with a second major or field of concentration. They are described in this section of the *Catalog* under "Premedical Programs." These programs are intended to provide specific preparation for advanced professional training in medicine. They can also be used, however, as general background for other areas of work related to health.

In addition, the College of Arts and Sciences offers a three-plus-one program in medical technology. This program, which combines three years of study at Kent State University with a year of clinical study in an area hospital, is intended to prepare students for direct entry into careers in medical technology. This program is described above under "Three-Plus-One Program."

The College of Arts and Sciences, in cooperation with the Northeastern Ohio Universities College of Medicine, also offers a six-year program leading to the combined degrees of B.S. in Integrated Life Sciences and Doctor of Medicine. Further information about this program is given above under "Integrated Life Sciences Six-Year Medical Program."

Students interested in careers related to health should also consider programs offered elsewhere in the university and described in other sections of this *Catalog*. The College of Nursing offers a program leading to a B.S. in Nursing, and several of the Regional Campuses offer two-year programs leading to the degree of Associate of Applied Science in Nursing. In addition, programs in community health education and community health are offered through the College of Education.

Students interested in any of the health-related programs offered through the College of Arts and Sciences may obtain further information about those programs from the office of the College of Arts and Sciences, 105 Bowman Hall. Information about programs in nursing and health education may be obtained from the Colleges of Nursing and Education, respectively.

Teaching Programs

Students with an interest in college or university teaching as a career should prepare for several years of postgraduate study leading to the Ph.D. In the physical sciences, the biological sciences and mathematical sciences, the B.S. degree is generally considered appropriate for students who wish to enter Ph.D. programs. Superior students with the B.A. degree may also, however, be admitted to such science and math programs. In other areas, the B.A. is the usual degree required for admission to a Ph.D. program. A B.G.S. degree may also be acceptable for admission to graduate studies, if it includes a signifi-

cant focus in the appropriate discipline or in related fields. Students interested in pursuing graduate work should seek extensive and detailed advice from faculty members in the field they are considering.

Students who want to teach in one of the traditional disciplines on the high school level may choose either of two routes toward that goal. They may pursue a degree through the College of Education, with a major in the chosen teaching field. Alternatively, for certain fields, they may pursue a degree in the College of Arts and Sciences with a major in the desired teaching field, and at the same time complete a minor in Education. Satisfactory completion of the arts and sciences degree, along with the minor in Education, will lead to certification for high school teaching in the state of Ohio. Further information about this program is contained above in the section "Minors in Other Colleges." Students interested in pursuing a degree in Arts and Sciences with a minor in Education should seek early advice from both the College of Arts and Sciences and the College of Education.

Nonmajor Preprofessional Advising Programs

The College of Arts and Sciences provides advising programs for students preparing for professional training elsewhere. These advising programs are of two sorts: the first is intended for students who wish to pursue a professional undergraduate program, and the second is intended for those who wish to pursue professional study on the graduate level.

Advising programs for students preparing for undergraduate professional study are available in pre-engineering and prepharmacy. These programs are designed for students who wish to take one or two years of coursework at Kent State University before transferring to another institution with specialized undergraduate programs not available here.

Students preparing for graduate professional study in law or library science are also advised through nonmajor advising programs. These advising programs will help students make the appropriate choice of courses and prepare for professional study.

Pre-engineering (Declan Keane, Adviser, Department of Physics)

Students who wish to prepare for a career in engineering may begin their studies at Kent State University. They should, however, be thoroughly acquainted with the admission requirements of the schools of engineering to which they plan to apply. Curriculum information may be obtained from the pre-engineering adviser in the Department of Physics or from the college office.

Prepharmacy
(Chun-Che Tsai, Adviser, Department of Chemistry)

Up to two years of prepharmacy study may be completed at Kent State University by taking basic academic courses through the College of Arts and Sciences. Prepharmacy students are encouraged to take the courses listed below to enhance their opportunities to enter a pharmacy school:

BSCI 10120 or 20020, 20021, 30030 and 30518
CHEM 10060, 10061, 10062 and 10063; or 10960 and 10961
CHEM 30475, 30476, 30481 and 30482
ENG 10001, 10002
MATH 12001, 12002, 12003
PHY 13001, 13002, 13021 and 13022;
or 23101 and 23102.

Remaining coursework should be selected from the social sciences (see LER listings in anthropology, economics, geography, political science, psychology and sociology; most pharmacy schools also consider history to fall into this category), and from the humanities (see LER listings for English, philosophy and fine arts).

All students should be familiar with the requirements of the school of pharmacy that they plan to apply to and attend, and should consult immediately on entering the university with the prepharmacy adviser in the Department of Chemistry or with the college office.

Prelibrary Science
(Christy Hoffman, Academic Program Coordinator,
School of Library and Information Science)

Students seeking admission to a master's program in library science accredited by the American Library Association should have a broad, general undergraduate education, including courses in humanities, sciences and social sciences. Employment opportunities are enhanced for those with competency in one or more of the following areas: foreign languages, computer science, mathematics or statistics, or business administration. Teaching certification is required for those desiring to become school media specialists (school librarians) and subject master's degrees are valuable for academic or special library employment.

Although library/information schools may vary in admission requirements, emphasis is usually placed on overall GPAs and Graduate Record Examination scores. Detailed information on specific preparatory coursework may be obtained from the School of Library and Information Science, 314 University Library.

