## College of Arts and Sciences

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THE COLLEGE OF ARTS AND SCIENCES
Academic Advising Offices:

105 Bowman Hall
330-672-2062
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COLLEGE OF ARTS AND SCIENCES

THE MISSION OF THE COLLEGE

It is the mission of the College of Arts and Sciences to deliver a first-rate education dedicated to the traditions and values of the liberal arts. These traditions include developing the skills of critical reasoning, writing, reading and deduction and providing a firm grounding in the theories and methodologies of the humanities, social and natural sciences and mathematics. These values include a commitment to rigorous questioning of principles and practices, intellectual integrity, community responsibility and diversity of perspectives in the pursuit of truth and social justice. Fundamental to a liberal education is the acquisition, preservation and transmission of new ideas and knowledge. Study within the College of Arts and Sciences broadens and enriches students’ intellectual and cultural background. The college provides a core curriculum for all students whatever their major fields or career goals. With specialized and interdisciplinary programs at the undergraduate and graduate levels, the college strives to offer a wide variety of learning and research opportunities to its students, guided by nationally and internationally renowned faculty—faculty as passionate and intent on adding to human understanding as they are to passing this understanding on to future generations. 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.

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.

Certain majors and minors provide specific preparation for particular careers. For example, 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.

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.
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.

ORGANIZATION OF THE COLLEGE
The college consists of 17 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, Mathematical Sciences and Physics.

In addition to these academic departments, the college also houses the School of Biomedical Sciences, the Chemical Physics Interdisciplinary Program and a number of centers and institutes, including the Center for Applied Conflict Management, the Lyman L. Lemnitzer Center for NATO and European Union Studies, the Water Resources Research Institute and the Center for Applied Linguistics. 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.

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 32 departmental and interdisciplinary majors within the B.A. degree.

The B.A. 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 also have become acquainted with a broad range of human ideas, cultures and institutions.

Program requirements for all majors in the B.A. in the College of Arts and Sciences are listed beginning on Page 170.

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:

- American Sign Language
- 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
- Teaching English as a Second Language
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
- Applied Conflict Management
- Classics
- Earth Science
- The Individualized Major
- International Relations
- Latin American Studies
- Paralegal Studies
- Soviet and East European Studies

Bachelor of Science
The Bachelor of Science (B.S.) degree places emphasis on specialization in a chosen field. The college offers 18 fields of concentration as well as several preprofessional programs involving coursework in the natural sciences within the B.S. program.

The B.S. degree 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 from the relevant department or college office to plan their schedules carefully.

The program requirements for the fields of concentrations in the B.S. program in the College of Arts and Sciences are listed beginning on Page 189.

Fields of concentration in the B.S. program in the College of Arts and Sciences are:

- Anthropology (Biological, Archaeology)
- Applied Mathematics
- Biology
- Botany
- Chemistry
- Computer Science
- Conservation
- French Translation
- Geology
- German Translation
- Mathematics
- Physics
- Russian Translation
- Spanish Translation
- Zoology

The college offers an interdisciplinary B.S. in biotechnology.

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 satisfac-
tory 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 advisors. Students who are interested in any of these pro-
grams 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 204.

Pre-medical Programs
The College of Arts and Sciences offers programs for students who
wish to pursue professional careers in medicine. These pre-medical
programs are designed to provide a sound basis in biology and
chemistry, along with coursework in physics and mathematics. The
pre-medicine, pre-osteopathy, pre-veterinary medicine and pre-
dentistry 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 pre-medical
program would be well advised, however, to check carefully the admis-
sions requirements of the professional schools they wish to enter. Stu-
dents also should seek advice regularly from their faculty advisors.

Students may pursue pre-medical programs under the Bachelor of
Arts degree, the Bachelor of Science degree or a carefully designed
Bachelor of General Studies degree. The pre-medical program
serves as a secondary major for students in the B.A. and B.S. pro-
grams. Students who elect the B.A. or B.S. degree must also com-
plete a primary major or field of concentration.

The program requirements for the pre-medical programs in the Col-
lege of Arts and Sciences are listed beginning on Page 205.

Integrated Life Sciences (B.S./M.D.)
Kent State University participates in a combined program with the
Northeastern Ohio Universities College of Medicine (NEOUCOM).
This is an intensive six-year program that requires study during the
summer as well as during the academic year. Admission to the pro-
gram is highly selective.

Students admitted to the Northeastern Ohio Universities College of
Medicine through Kent State University are awarded a Bachelor of
Science in Integrated Life Sciences by the College of Arts and Sci-
ences and the M.D. by NEOUCOM at the completion of their six-
year program.

Further details concerning the B.S./M.D. program can be found
beginning on Page 208.

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 require-
ments 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 require-
ments. This degree may be used to satisfy an interest in a wide
range of areas appropriate to a well-rounded general education, to
pursue a broad concentration (such as the humanities, within
related academic clusters or fields, entertainment and leisure arts,
the natural and mathematical sciences, communication arts, social
sciences and human services, managerial and leadership studies,
etc.), or to prepare for further study in a professional area such as
law, medicine or public administration.

Students who have earned the B.G.S. degree have gone on to pur-
sue careers in many fields, ranging from business to law and medi-
cine. 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 pre-medical programs may be taken as
part of a B.G.S. In addition, any of the minors listed beginning on
Page 211 as available to arts and sciences students may be taken
as minors with the B.G.S.

The requirements for the B.G.S. program in the College of Arts and
Sciences are listed beginning on Page 207. Students interested in
the B.G.S. program should contact the college office for further
information.
Minor Programs
Students pursuing a Bachelor of Arts or a Bachelor of Science 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 Bachelor of General Studies 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. However, minors that too closely relate to a major may be prohibited for that major. Students may also choose minors that are in no way related to the major program. In such a case, the minor usually is 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 211.

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:

- American Sign Language
- Anthropology
- Applied Conflict Management
- Applied Mathematics
- Biological Sciences
- Business French
- Business German
- Business Russian
- Business Spanish
- 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.
Interdisciplinary minors in the College of Arts and Sciences are:

- African Studies
- American Studies
- Ancient, Medieval and Renaissance Studies
- Asian Studies
- British Studies
- Cartography
- Classics
- Climatology
- Comparative Literature
- Geographic Information Science
- German Studies
- Health Care Ethics
- Hellenic Studies
- Jewish Studies
- Latin American 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
- Web Design and Programming
- 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 the Arts, the College of Business Administration, the College of Communication and Information and the College of Education, Health, and Human Services can be found beginning on Page 235. 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 or that college.

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’s 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 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.

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.

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 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 advisors 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 advisor.

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 interdiscipli-
nary 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 advisors by their major departments. In addition to their assigned faculty advisors, 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 advisors 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 advisors 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 advisors 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.

Noting 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 211. 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 then will be referred to the appropriate college for further advice. In any case, students who elect minors should consult with their major advisors 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 titled General Requirements for each degree. 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 and an art history major in the B.A. program in the 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 generally will 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, Health, and Human Services generally are 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 Office of International Affairs.

Students may also study in Washington, D.C., and Columbus, Ohio, through the Department of Political Science. Field study at locations outside the university also is 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.

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

**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 11001 Introduction to College Writing Stretch, followed by ENG 11011, College Writing I and ENG 21011 College Writing II. The initial placement in the college writing 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 already has been completed satisfactorily.

**Alternative Means of Fulfillment**

Students admitted into the Honors College are required to take the 8-credit hour Freshman Honors Colloquium, regardless of ACT/SAT placement scores. Satisfactory completion of this 8-credit 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 11011 through this program are then placed into ENG 21011. Credit may also be earned through the university’s Credit-By-Examination (CBE) program, described elsewhere in this Catalog.

**International Students**

Students for whom English is a second language are required to complete the special sequence ENG 10205 Advanced ESL Writing II, ENG 10101 College English I for Foreign Students and ENG 21011 College Writing II (the concluding course in the basic college writing sequence).

Entering international students must register for ENG 10205. 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 10205 or be immediately advanced to ENG 10101.

Students who are placed into ENG 10205 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 21011 in order to complete the college writing requirement.

**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 credit 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 each degree 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 upon 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 Mathematical Sciences in Room 233 in the Mathematical Sciences 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 language-based course at a higher level than the minimum required also will 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.

The Department of Modern and Classical Language Studies offers courses of study beyond the minimum needed to meet the foreign language requirement in Arabic, Greek (classical and modern), Italian and Portuguese; however no major is available for them at this time.

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 Pages 32-33, 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.

Students should contact the appropriate academic department for information regarding courses designated as eligible for CBE. Students who wish to pursue CBE must complete the CBE application (available at ATS) to gain appropriate department and college permission. Such permission will be granted only if the students present documented evidence of substantial prior preparation in the subject area.

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 Pages 32-33, 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 Pages 32-33, 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 LER courses or College General Requirements are excluded from the pass/fail option. Courses in the major, field of concentration and minor also are 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 79 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 4 credit hours of physical education activity (PEB) courses or lower-division ROTC (ASTU and MSCI) coursework, or of the two combined, may be counted toward the 121 credit 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 credit hours may be counted in addition to the 4 lower-division credit hours permitted for ROTC/PEB courses.

**Applied Music and Music Ensembles**

A maximum of 8 credit hours 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 prescribed coursework (MATH 10004, 10031, US 10003 and 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 number 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.

2. 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 lower-division.

3. College General Requirements
   The General Requirements of the college include the university Liberal Education Requirements and diversity requirement as well as any conditional coursework prescribed upon admission, First Year Experience FLASH Point 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.

4. 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 Course Requirement
   Refer to Pages 72 and 93-95 of this Catalog for specific information on the Writing-Intensive Course Requirement.

6. 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 advisor 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.

7. 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.

8. 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 Requirements and diversity course requirements (see Pages 85-91) 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).
General Requirements for B.A. Degree

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

I. General College or University Requirements

US 10097 First Year Experience FLASH Point

II. Composition

ENG 11011 College Writing I (or 11002 College Writing I-S)
21011 College Writing II
Placement by ACT/SAT English composition scores; students may be required to take ENG 11001 Introduction to College Writing Stretch.

III. Mathematics and Critical Reasoning

Students must pass one of the courses listed below or establish proficiency.
CS 10051 Introduction to Computer Science (3)
MATH 11008 Explorations in Modern Mathematics (3)
11009 Modeling Algebra (4)
11010 Algebra for Calculus (3)
11011 College Algebra (4)
11012 Intuitive Calculus (3)
12001 Algebra and Trigonometry (4)
12002 Analytic Geometry and Calculus I (5)
PHIL 21002 Introduction to Formal Logic (3)

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

IV. Humanities and Fine Arts

All 9 credit hours in the Humanities and Fine Arts must be selected from the courses listed below. At least one course must be selected from the humanities category and at least one course must be selected from the fine arts category.

Restrictions:
No coursework from the major department may be counted toward the humanities and fine arts category.

Diversity courses marked additionally with an asterisk (*) have a domestic (U.S.) focus.

Humanities: Arts and Sciences

CLASc 21404 The Greek Achievement (3)
21405 The Roman Achievement (3)
ENG 21054 Introduction to Shakespeare (3)
22071 Great Books I (3)
22072 Great Books II (3)
22073 Major Modern Writers (3)
HIST d 11050 History of Civilization I (3)
11051 History of Civilization II (3)
d 12070 History of the U.S.: The Formative Period (3)
d 12071 History of the U.S.: The Modern Period (3)
PAS d 23001 Black Experience I: Beginnings to 1865 (3)
d 23002 Black Experience II: 1865 to Present (3)
PHIL d 11001 Introduction to Philosophy (3)
d 21001 Introduction to Ethics (3)
d 21020 Comparative Religious Thought I (3)
d 21021 Comparative Religious Thought II (3)

Humanities: Communication and Information

COMMC 26000 Criticism of Public Discourse (3)

Fine Arts

ARCH 10001 Understanding Architecture (3)
10011 Survey of Architectural History I (3)
10012 Survey of Architectural History II (3)

ARTH 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 d 27076 Dance as an Art Form (3)

Fine Arts

MUSIC 22111 The Understanding of Music (3)
d 22121 Music as a World Phenomenon (3)
THEAD 11000 The Art of the Theatre (3)

V. Social Sciences

Coursework must be selected from at least two curricular areas.

Restrictions:
No coursework from the major department may be counted toward the 9 credit hours selected from the courses listed below.

Note: Any course marked with a “D” that is taken to satisfy the social sciences category will also satisfy the diversity requirement, provided that course is not in the student’s major department. Diversity courses marked additionally with an asterisk (*) have a domestic (U.S.) focus.

ANTHD 18210 Introduction to Cultural Anthropology (3)
18420 Introduction to Archaeology (3)
CACM d 11001 Introduction to Conflict Management (3)
ECON 22060 Principles of Microeconomics (3)
22061 Principles of Macroeconomics (3)

GEOG 10160 Introduction to Geography (3)
17063 World Geography (3)
d 17064 Geography of U.S. and Canada (3)
d 22061 Human Geography (3)

GERO d 14029 Introduction to Gerontology (3)
JMC d 20001 Media, Power and Culture (3)

JUS 26704 Issues in Law and Society (3)

POL d 10004 Comparative Politics (3)
Minimum 6 credit hours must be selected from the courses listed below or from beginning “major sequence” courses in (biological) anthropology (ANTH 38630); biological sciences (BSCI 10110, 10120); chemistry (CHEM 10060, 10061, 10062, 10063, 10960, 10961); and physics (PHY 23101, 23102)**. The remaining 3 credit hours may optionally be selected from other courses in biological sciences, chemistry, geology and physics. The total credit hours must include at least one laboratory course.

Restrictions:
No more than two courses from any curricular area (not counting laboratories) may be counted toward the basic sciences category. No coursework from the major department may be counted toward the 6 credit hours selected from the courses listed below. Credit toward the basic sciences category is not allowed for:
- Both PHY 11660 and either the CHEM 10050, the CHEM 10060 or the PHY 13001 series.
- Both the CHEM 10050 and the CHEM 10060 series.
- More than one of the PHY 13001, PHY 13011 or PHY 23101 series.
- Combinations of the BSCI 10001, the BSCI 10110 series and/or the BSCI 20020 series.

ANTH 18630 Human Evolution (3)
BSCI 10001 Human Biology (3)
CHEM 10030 Chemistry in Our World (3)
LAB 18631 Issues in Human Evolution (1)
LAB 20020 Biological Structure and Function (5)
LAB 10002 Ecology, Evolution and Society (3)
LAB 10030 Chemistry in Our World Laboratory (1)
LAB 10050 Fundamentals of Chemistry (3)
LAB 10052 Introduction to Organic Chemistry (2)
LAB 10053 Organic and Inorganic Laboratory (1)
LAB 10054 General and Elementary Organic Chemistry (5)
GEOG 21062 Physical Geography (3)
GEOL 11040 Earth Dynamics (3)
LAB 11041 Earth Dynamics Laboratory (1)
LAB 11042 Earth History (3)
LAB 11043 Earth History Laboratory (1)
LAB 21062 Environmental Geology (3)
LAB 21080 Oceanography (3)
NUTR 23511 Science of Human Nutrition (3)

PHY 11030 Seven Ideas that Shook the Universe (3)
11660 Physical Science (3)
13001 General College Physics I (4)
13002 General College Physics II (4)
13011 College Physics I (2)
13012 College Physics II (2)

LAB 13021 General College Physics Laboratory I (1)
LAB 13022 General College Physics Laboratory II (1)
LAB 21040 Physics in Entertainment and the Arts (1)
LAB 21041 Physics in Entertainment and the Arts Laboratory (1)
21430 Frontiers in Astronomy (3) or 24001 Astronomy (3)

VIII. Diversity .................................................... 0-3
Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course ("D" indicates global diversity; "D*" indicates domestic diversity) must be selected from category IV or V, above. This course may not be from the major department. The second diversity course ("D" indicates global diversity; "D*" indicates domestic diversity) may be selected from category IV or V, above, or from the complete list of diversity requirement courses on Pages 89-91. The second course may be from the major department; however, it might not apply toward the Humanities, Fine Arts or Social Sciences.

IX. Writing Intensive ............................................ 0-3
Students must complete a one-course writing-intensive requirement and earn minimum C (2.00) grade. A complete list of writing-intensive courses is on Pages 93-95.

X. Foreign Languages ........................................... 14
Courses in one foreign language or American Sign Language or equivalent in proficiency is required. This requirement may be fulfilled by one of the following four conditions: (1) passing the first four semesters of any foreign language or American Sign Language. Students who receive advanced placement meet the requirement by passing the fourth semester of a language; (2) placement in courses beyond intermediate II level on the placement examination administered by Academic Testing Services. Consult with the language departments for further information; (3) passing a course beyond intermediate II level; or (4) receiving credit for intermediate II or beyond from CBE, CLEP or transfer. Note: The requirement may be met with fewer than 14 credit hours if students receive advanced placement. In this case, students are required to complete the remaining hours with “free” electives.

TOTAL 57-62
MAJORS*
The program requirements for majors in the College of Arts and Sciences are listed below. For more information consult the college Web site http://as.kent.edu.

*See Pages 160-161 for lists of departmental and interdisciplinary majors.

B.A. in American Sign Language

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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 19201 Elementary American Sign Language I</td>
<td>4</td>
</tr>
<tr>
<td>ASL 19202 Elementary American Sign Language II</td>
<td>4</td>
</tr>
<tr>
<td>ASL 29201 Intermediate American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>ASL 29202 Intermediate American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>ASL 39201 Advanced American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>ASL 39202 Advanced American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49092 Practicum: Deaf Residential School</td>
<td>1</td>
</tr>
<tr>
<td>ASL 49096 Individual Investigation: Curriculum and Practices</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49096 Individual Investigation: Advanced ASL Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49101 Deaf Culture and Community</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49105 Signed English and Manually Coded English Systems</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49108 ASL Linguistics and Usage</td>
<td>3</td>
</tr>
<tr>
<td>ASL 49309 Introduction to Deaf Studies</td>
<td>3</td>
</tr>
<tr>
<td>ECED 30123 Language and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SPA 43600 Fundamentals of Educational Audiology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 43310 Language Instruction for Deaf/Hard of Hearing Students</td>
<td>3</td>
</tr>
<tr>
<td>SPED 43392 Practicum: Deaf Education</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL 54-60

Students pursuing teacher licensure must satisfactorily pass the Sign Communication Proficiency Interview before taking Student Teaching.

LER recommendations: HIST 11050 or 11051 (satisfies the global-focus diversity requirement), SOC 12050 (satisfies the domestic-focus diversity requirement) and PSYC 11762.

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

B.A. in American Studies

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.

Students with degrees in American studies may pursue graduate work in American studies or a related field. In the latter instance, students would be well advised to pursue a second major in the related field.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMST 10001 Introduction to American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AMST 40197 Senior Colloquium</td>
<td>3</td>
</tr>
</tbody>
</table>

English

Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 33001 U.S. Literature to 1865</td>
<td>3</td>
</tr>
<tr>
<td>ENG 33002 U.S. Literature from 1865-1945</td>
<td>3</td>
</tr>
<tr>
<td>ENG 33003 U.S. Literature from 1945-Present</td>
<td>3</td>
</tr>
<tr>
<td>ENG 33011 African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34021 Women’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENG 36001 Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENG 39695 Special Topics in Ethnic Literature of the U.S.</td>
<td>3</td>
</tr>
</tbody>
</table>

History

Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 31070 History of American Business Enterprise</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41056 History of Colonial America: 1492-1714</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41057 Eighteenth-Century America: 1714-1789</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41070 American Social and Intellectual History, 1790-1876</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41071 American Social and Intellectual History, 1876-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41074 American Economic History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41079 History of the Immigrant in America</td>
<td>3</td>
</tr>
</tbody>
</table>

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College of Arts and Sciences

41083 U.S. Foreign Relations Through World War I (3)
41084 U.S. Foreign Relations From 1920 (3)

**Humanities**
Choose from the following: ........................................... 12-15
ARTH 42056 American Art: 1607-1860 (3)
42057 American Art and Architecture: 1860-1940 (3)
42058 History of Photography (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)
35200 African Social, Political, and Economic Systems (3)
41192 African American Affairs Practicum (3)
42500 Black Education in America (3)
PHIL 31010 Twentieth-Century Philosophy (3)
31020 American Philosophy (3)
41060 Pragmatism (3)
WMST 30000 Colloquium in Women’s Studies (3)

**Social Sciences**
Choose from the following: ............................................. 12
ANTH 18210 Introduction to Cultural Anthropology (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)
40830 U.S. Foreign Policy (3)

II. Electives upper-division ............................................. 6-9
Select from American studies (40095, 40096), anthropology, English, history, political science and sociology in consultation with the coordinator, with two areas represented. At least 21 hours must be taken in the humanities and major electives combined.

TOTAL 113-114

**B.A. in Anthropology**

(See also B.S. program)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

ANTH 18210 Introduction to Cultural Anthropology ............ 3

B.A. in Applied Conflict Management

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

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 center 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
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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements ........................................... 27-36

CACM 11001 Introduction to Conflict Management .......... 3
21002 Gender, Power and Conflict ................. 3
21010 Cross-Cultural Conflict Management ........ 3
31003 Nonviolence: Theory and Practice ........ 3
31010 Conflict Theory .................... 3
35092 Internship in Conflict Management .......... 3-12
38080 Mediation: Theory and Training ............ 3
41010 Reconciliation vs. Revenge .............. 3
49091 Seminar in Conflict Management ............ 3
Choose from the following: .......................... 3
CACM 32020 Strategic Planning (3)
33030 Conflict in the Workplace (3)
34040 Negotiation (3)
35050 Public Sector Dispute Resolution (3)

II. Electives ....................................................... 9-18

Select from the following programs, chosen in consultation with a CACM advisor: Anthropology, Center for Applied Conflict Management, Communication Studies, Geography, History, Human Development and Family Studies, Justice Studies, Management and Information Systems, Pan-African Studies, Philosophy, Political Science, Psychology, Public Relations, Sociology or approved others.

TOTAL 48-60

Minimum 24 credit hours in the major must be upper-division.

B.A. in Biology

(See also B.S. program)

Also see “Note” under Biological Sciences entry in Course Descriptions online.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements ........................................... 29

BSCI 10110 Biological Diversity ......................... 4
10120 Biological Foundations ...................... 4
30156 Elements of Genetics .......................... 3
40163 Organic Evolution ............................ 3
40600 Writing in the Biological Sciences ........ 1
CHEM 10060 General Chemistry I ................. 4
10061 General Chemistry II ....................... 4
10062 General Chemistry I Laboratory ........... 1
10063 General Chemistry II Laboratory .......... 1
MATH 12001 Algebra and Trigonometry ......... 4

TOTAL 45

(See also B.S. program)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

CHEM 30101 Quantitative Analysis ................. 2
30102 Quantitative Analysis Laboratory .......... 1
30284 Introduction Biological Chemistry ........ 4
30360 Aqueous Descriptive Inorganic Chemistry .. 2
30475 Organic Chemistry Laboratory I ............ 1
30476 Organic Chemistry Laboratory II ........... 1
40361 Intermediate Inorganic Chemistry .......... 2
40567 Basic Concepts of Physical Chemistry ...... 4
40568 Elementary Physical Chemistry Laboratory .. 1
MATH 12001 Algebra and Trigonometry ............ 4
12002 Analytic Geometry and Calculus I ........ 5
PHY 13001 General College Physics I .............. 4
13002 General College Physics II ............... 4
13021 General College Physics Laboratory I ....... 1
13022 General College Physics Laboratory II .... 1
Choose from the following: .......................... 6
CHEM 20481 Basic Organic Chemistry I (4)
20482 Basic Organic Chemistry II (2)
or
30481 Organic Chemistry I (3)
30482 Organic Chemistry II (3)

Choose one of the following groups .......................... 10
CHEM 10060 General Chemistry I (4)
    10061 General Chemistry II (4)
    10062 General Chemistry I Laboratory (1)
    10063 General Chemistry II Laboratory (1)
or
    CHEM 10960 Honors General Chemistry (5)
    10961 Honors General Chemistry (5)
Choose from the following: ................................. 2-3
CHEM 30050 Introduction to Materials Chemistry (2)
    30103 Instrumental Analysis (2)
    40248 Advanced Biological Chemistry (3)
    40362 Intermediate Inorganic Chemistry (2)
    40477 Intermediate Organic Chemistry Laboratory (1)
    40483 Intermediate Organic Chemistry (1)
    40796 Individual Investigation (1-2)
or other department-approved electives
TOTAL 55-56

B.A. in Classics

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

Offered through the Department of Modern and Classical Language Studies, the Bachelor of Arts 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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements, choose from the following: ............... 18
    CLAS 2104 The Greek Achievement (3)
    2105 The Roman Achievement (3)
    41006 Roman History (or HIST 41006) (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 Translation (3)
    HIST 41003 History of Ancient Greece (3)

II. Greek or Latin Emphasis (see below) .......................... 17
    Students wishing to major in classics must choose a program with an emphasis in either Greek or Latin.

III. Strongly Recommended Electives
    ANTH 18420 Introduction to Archaeology (3)
    38480 Archaeological Analysis (3)
    ARTH 22006 Art History I (3)
    22007 Art History II (3)
    HIST 11050 History of Civilization I (3)
    41004 Hellenic Contributions to Western Civilization (3)
    PHIL 31001 Ancient Greek Philosophy (3)
    Additional courses in Latin or Greek literature.
    TOTAL 35

Greek Emphasis

Prerequisite
GRE 14202 Elementary Classical Greek II (4)
or equivalent skills

Emphasis Requirements
GRE 24201 Intermediate Classical Greek I: Readings .......... 3
    24202 Intermediate Classical Greek II: Readings .......... 3
LAT 16201 Elementary Latin I .................................. 4
    16202 Elementary Latin II .................................. 4
    Choose from the following: .................................. 3
GRE 34370 Plato Apology and Phaedo (3)
    34371 Homer (3)

Latin Emphasis

Prerequisite
LAT 16202 Elementary Latin II (4) or equivalent skills.

Emphasis Requirements
GRE 14201 Elementary Greek I ................................. 4
    14202 Elementary Greek II ................................. 4
LAT 26201 Intermediate Latin I ............................... 3
    26202 Intermediate Latin II ............................... 3
    Choose from the following: .................................. 3
LAT 36170 Cicero (3)
    36171 Vergil (3)

TOTAL 17

B.A. in Earth Science

(Department of Geology)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.
## College of Arts and Sciences

### I. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 10060</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>10062</td>
<td>General Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 31062</td>
<td>Fundamentals of Meteorology</td>
<td>3</td>
</tr>
<tr>
<td>31064</td>
<td>Principles of Climatology</td>
<td>3</td>
</tr>
<tr>
<td>41073</td>
<td>Conservation—Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>41082</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 11040</td>
<td>Earth Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>11041</td>
<td>Earth Dynamics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>11042</td>
<td>Earth History</td>
<td>3</td>
</tr>
<tr>
<td>11043</td>
<td>Earth History Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>21080</td>
<td>Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>23063</td>
<td>Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>31070</td>
<td>Petrology</td>
<td>4</td>
</tr>
<tr>
<td>32066</td>
<td>Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>34061</td>
<td>Invertebrate Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>Geology elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Geology or geography upper-division elective</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**geographical information sciences course recommended**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 12001</td>
<td>Algebra and Trigonometry</td>
<td>4</td>
</tr>
<tr>
<td>PHY 24001</td>
<td>Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following:</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>BSCI 10110</td>
<td>Biological Diversity (4)</td>
<td></td>
</tr>
<tr>
<td>20560</td>
<td>Invertebrate Zoology (4)</td>
<td></td>
</tr>
<tr>
<td>Choose from the following:</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PHY 13001</td>
<td>General College Physics I (4)</td>
<td></td>
</tr>
<tr>
<td>13021</td>
<td>General College Physics Laboratory I (1)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23101</td>
<td>General University Physics (5)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 66**

## B.A. in Economics

*Electives must be selected with the advice of the undergraduate advisor in the Department of Economics and the approval of the undergraduate advisor in the Department of Economics.

**Note:** Students interested in pursuing graduate study in economics are encouraged to take MATH 12002 Calculus I, MATH 12003 Calculus II and other mathematics and statistics courses. Interested students with the appropriate prerequisites may also want to substitute MATH 40011 and 40012 for MIS 24056 and ECON 32050, with departmental approval.

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

### B.A. in English

*See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.*

#### I. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 25001</td>
<td>Literature in English I</td>
<td>3</td>
</tr>
<tr>
<td>30001</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>25002</td>
<td>Literature in English II (3)</td>
<td></td>
</tr>
<tr>
<td>25003</td>
<td>Literature in the United States (3)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 9**

#### II. Electives

**TOTAL 9**

#### III. Distribution Requirements

**TOTAL 18**

### Historical

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 33001</td>
<td>American Literature to 1865 (3)</td>
<td></td>
</tr>
<tr>
<td>33002</td>
<td>American Literature from 1865-1945 (3)</td>
<td></td>
</tr>
<tr>
<td>33003</td>
<td>American Literature from 1945-Present (3)</td>
<td></td>
</tr>
<tr>
<td>34001</td>
<td>Medieval English Literature (3)</td>
<td></td>
</tr>
<tr>
<td>34002</td>
<td>British Literature from 1500-1660 (3)</td>
<td></td>
</tr>
<tr>
<td>34003</td>
<td>British Literature from 1660-1800 (3)</td>
<td></td>
</tr>
<tr>
<td>34004</td>
<td>British Literature from 1800-1900 (3)</td>
<td></td>
</tr>
<tr>
<td>34005</td>
<td>British and Irish Literature from 1900-Present (3)</td>
<td></td>
</tr>
<tr>
<td>34055</td>
<td>Shakespeare (3)</td>
<td></td>
</tr>
<tr>
<td>34065</td>
<td>Chaucer (3)</td>
<td></td>
</tr>
<tr>
<td>34095</td>
<td>Topics: Major Author Studies (3)</td>
<td></td>
</tr>
<tr>
<td>37001</td>
<td>Classical Rhetoric (3)</td>
<td></td>
</tr>
<tr>
<td>39095</td>
<td>Topics in Literary History (3)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 6**

**ECON 33001 American Literature to 1865 (3) 33002 American Literature from 1865-1945 (3) 33003 American Literature from 1945-Present (3) 34001 Medieval English Literature (3) 34002 British Literature from 1500-1660 (3) 34003 British Literature from 1660-1800 (3) 34004 British Literature from 1800-1900 (3) 34005 British and Irish Literature from 1900-Present (3) 34055 Shakespeare (3) 34065 Chaucer (3) 34095 Topics: Major Author Studies (3) 37001 Classical Rhetoric (3) 39095 Topics in Literary History (3)
**College of Arts and Sciences**

*Genre Studies, Cultural Studies, Literary Theory*

Choose from the following: .................................. 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 21003</td>
<td>Introduction to LGBT Literature</td>
<td>3</td>
</tr>
<tr>
<td>33011</td>
<td>African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>34011</td>
<td>World Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>34021</td>
<td>Women’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>34031</td>
<td>Short Story</td>
<td>3</td>
</tr>
<tr>
<td>35101</td>
<td>Literature and Other Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>35201</td>
<td>The Bible as Literature</td>
<td>3</td>
</tr>
<tr>
<td>35301</td>
<td>LGBT: Critical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>36001</td>
<td>Literary Criticism</td>
<td>3</td>
</tr>
<tr>
<td>37101</td>
<td>Critical Rhetorical Studies of Texts in Context</td>
<td>3</td>
</tr>
<tr>
<td>39195</td>
<td>Topics in Drama</td>
<td>3</td>
</tr>
<tr>
<td>39295</td>
<td>Topics in Poetry</td>
<td>3</td>
</tr>
<tr>
<td>39395</td>
<td>Topics in Fiction</td>
<td>3</td>
</tr>
<tr>
<td>39995</td>
<td>Topics in Cultural Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

*Writing and Language Studies*

Choose from the following: .................................. 6

No more than one lower-division course will count toward the major.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 20002</td>
<td>Introduction to Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>20021</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>30062</td>
<td>Principles of Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>30063</td>
<td>Business and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>30064</td>
<td>Argumentative Prose</td>
<td>3</td>
</tr>
<tr>
<td>30065</td>
<td>Expository Prose</td>
<td>3</td>
</tr>
<tr>
<td>30067</td>
<td>Writer’s Workshop in Fiction I</td>
<td>3</td>
</tr>
<tr>
<td>30068</td>
<td>Writer’s Workshop in Fiction II</td>
<td>3</td>
</tr>
<tr>
<td>30069</td>
<td>Writer’s Workshop in Poetry I</td>
<td>3</td>
</tr>
<tr>
<td>30070</td>
<td>Writer’s Workshop in Poetry II</td>
<td>3</td>
</tr>
<tr>
<td>31001</td>
<td>Fundamental English Grammar</td>
<td>3</td>
</tr>
<tr>
<td>31002</td>
<td>History of English Language</td>
<td>3</td>
</tr>
<tr>
<td>31003</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>31004</td>
<td>Lexicography/Lexicology</td>
<td>3</td>
</tr>
<tr>
<td>31006</td>
<td>World Englishes</td>
<td>3</td>
</tr>
<tr>
<td>32001</td>
<td>Writing in Communities</td>
<td>3</td>
</tr>
<tr>
<td>39895</td>
<td>Topics in Rhetoric, Composition and Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**I. Senior Seminar .................................................. 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 49091</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 39**

Students must complete a minimum of 39 credits hours, of which no more than 12 may be lower-division. Prerequisites for any course numbered 33001 or above are (1) completion of ENG 25001 or 25002 and 30001, or (2) permission of the instructor.

---

**B.A. in French**

(See also B.S. in French Translation)

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.

Under no circumstances may the coursework taken toward the major drop below 30 credit hours.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

**Prerequisite**

FR 23202 Intermediate II (3)

or equivalent skills

**Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>33211</td>
<td>French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>33212</td>
<td>French Composition</td>
<td>3</td>
</tr>
<tr>
<td>33215</td>
<td>French Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>33335</td>
<td>Introduction to French Theatre</td>
<td>3</td>
</tr>
<tr>
<td>33336</td>
<td>Introduction to French Poetry</td>
<td>3</td>
</tr>
<tr>
<td>33337</td>
<td>Introduction to French Novel</td>
<td>3</td>
</tr>
<tr>
<td>33421</td>
<td>French Civilization</td>
<td>3</td>
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</tbody>
</table>

French culture and literature courses at 30000-40000 level ........ 6

French electives at 40000 level .................................. 6

**TOTAL 33**

---

**B.A. in Geography**

**I. Core Requirements ............................................. 44**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG* 17063</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>17064</td>
<td>Geography of the U.S. and Canada</td>
<td>3</td>
</tr>
<tr>
<td>21062</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>21063</td>
<td>Physical Geography Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>39002</td>
<td>Statistical Methods in Geography</td>
<td>3</td>
</tr>
<tr>
<td>39161</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>39162</td>
<td>Introduction to Cartography Lab</td>
<td>1</td>
</tr>
<tr>
<td>40191</td>
<td>Seminar in Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

Regional upper-division course .................................. 3

**II. Choose one concentration (see below) ..................... 21**

**TOTAL 44**

*Course fulfills diversity requirement.*
Environmental Geography Concentration

GEOG 49070 Geographic Information Science ................................................................. 3
Geographic information sciences course ................................................................. 3
Social geography concentration course ................................................................. 3
Choose from the following: .................................................................................. 12
At least one course must be at the 40000 level.

GEOG 31062 Fundamentals of Meteorology (3)
31064 Principles of Climatology (3)
31080 Geography of Wine (3)
41050 Polar and Alpine Environments (3)
41052 Glaciers and Glaciation (3)
41062 Advanced Physical Geography (3)
41066 Climate Change and Its Impact (3)
41073 Conservation of Natural Resources (3)
41074 Resource Geography (3)
41082 Geography of Soils (3)

Other appropriate courses may also count in this concentration.

Social Geography Concentration

Geographic information sciences courses ......................................................... 6
Environmental geography course ................................................................. 3
Choose from the following: .................................................................................. 12
At least one course must be at the 40000 level.

GEOG 31070 Population and Environment (3)
* 32080 Politics and Place (3)
34070 Economic Geography (3)
35065 Geography of Transportation and Spatial Interaction (3)
* 36065 Cities and Urbanization (3)
42040 Tourism Development and Recreational Travel (3)
42052 Medical Geography (3)
42064 Historical Geography of the U.S. & Canada (3)
44010 Geography of the Global Economy (3)
45085 Urban Transportation (3)
46065 Advanced Urban Geography (3)
46070 Urban and Regional Planning (3)

Other appropriate courses may also count in this concentration.

Geographic Information Concentration

Social geography concentration course ................................................................. 3
Environmental geography concentration course ................................................. 3
Social or environmental concentration course ................................................. 3
Choose from the following: .................................................................................. 12

At least one course must be at the 40000 level.

GEOG 44070 Spatial Analysis and Location Theory (3)
49070 Geographic Information Science (3)
49076 Spatial Programming (3)
49080 Advanced Geographic Information Science (3)
49162 Advanced Cartography (3)
49163 Advanced Cartography Laboratory (1)
49165 GeoMapping (3)
49210 Earth Imagery (3)
49211 Earth Imagery Laboratory (1)
49230 Remote Sensing (3)

Other appropriate courses may also count in this concentration.

B.A. in Geology

(See also B.S. program)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

CHEM 10060 General Chemistry I ................................................................. 4
10062 General Chemistry I Laboratory ......................................................... 1
GEOL 11040 Earth Dynamics ................................................................. 3
11041 Earth Dynamics Laboratory ......................................................... 1
11042 Earth History ................................................................. 3
11043 Earth History Laboratory ......................................................... 1
23063 Mineralogy ................................................................. 4
31070 Petrology ................................................................. 4
31080 Structural Geology ................................................................. 4
32066 Geomorphology ................................................................. 4
34061 Invertebrate Paleontology ................................................................. 4
44070 Principles of Stratigraphy ................................................................. 4

Geology upper-division course ................................................................. 3
MATH 12001 Algebra and Trigonometry ................................................................. 4
Choose from the following: ................................................................................. 4
BSCI 10110 Biological Diversity (4)
20560 Invertebrate Zoology (4)

TOTAL 48

Although not required in fulfillment of the major, GEOL 41092 Summer Field Camp is strongly recommended. Additional coursework beyond the major requirements in chemistry, mathematics or biology and coursework in physics also is suggested in fulfilling elective hours.
**B.A. in German**

(See also B.S. in German Translation)

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.

Under no circumstances may the coursework taken toward the major drop below 30 credit hours.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

**Prerequisite**

GER 21202 Intermediate German II (3)

or equivalent skills

**Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 31201</td>
<td>Intensive German Grammar</td>
<td>3</td>
</tr>
<tr>
<td>31211</td>
<td>German Composition and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>31215</td>
<td>German Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>31303</td>
<td>Introduction to German Literature</td>
<td>3</td>
</tr>
<tr>
<td>31421</td>
<td>German Civilization</td>
<td>3</td>
</tr>
<tr>
<td>41216</td>
<td>Advanced German Composition</td>
<td>3</td>
</tr>
<tr>
<td>41216</td>
<td>Contemporary German Culture</td>
<td>3</td>
</tr>
<tr>
<td>MCLS 21417</td>
<td>Multiculturalism in Today’s Germany</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 30

---

**B.A. in History**

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 11050</td>
<td>History of Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>11051</td>
<td>History of Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>12070</td>
<td>History of the U.S.: The Formative Period</td>
<td>3</td>
</tr>
<tr>
<td>12071</td>
<td>History of the U.S.: The Modern Period</td>
<td>3</td>
</tr>
<tr>
<td>32050</td>
<td>The Historian’s Craft</td>
<td>3</td>
</tr>
</tbody>
</table>

History upper-division courses 18

Must include minimum 6 credit hours of U.S. history, 6 credit hours of European history since 1500 (including English and Russian) and 6 credit hours in the fields of African, ancient, medieval, Latin American or Asian history.

**TOTAL** 33

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**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. Fulfillment of the General Requirements for the Bachelor of Arts in the College of Arts and Sciences.
4. A coherent program of at least 35 credit hours designed to fit students’ needs. At least half of this program must be in upper-division coursework. This program must be presented to the Curriculum Committee of the college or its designee for recommendations 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.
B.A. in International Relations

(Mary Ann Haley, Department of Geography)

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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

Economics
ECON 22060 Principles of Microeconomics . . . . . . . . . . . . . . . 3
22061 Principles of Macroeconomics . . . . . . . . . . . . . . 3
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
ECON 32075 Introduction to International Trade (Geneva) (3)
42075 International Economic Relations (3)

Geography
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
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)

History
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6
HIST 31024 World War II (3)
31029 History 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 History of African Civilization (3)
31140 Modern Latin America (3)
31141 Early Latin America (3)
41020 19th-Century Europe (3)
41024 Modern European History, 1914-1945 (3)
41025 Modern European History: 1945-Present (3)
41041 History of Germany, 1871-Present (3)
41044 Imperial Russia, 1689-1917 (3)
41045 Modern Russia, 1917-Present (3)
41049 History of the Balkans: 18th Century-1914 (3)
41050 History of the Balkans: 1914-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)

Political Science
POL 10004 Comparative Politics . . . . . . . . . . . . . . . . . . . . . 3
10500 World Politics . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6
30511 Problems of International Organization (Geneva) (3)
30551 U.S.-Latin American Relations (3)
30820 International Organization and Law (3)
40830 U.S. Foreign Policy (3)
40840 Comparative Foreign Policy (3)
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6
30520 European Politics (3)
30530 Asian Politics (3)
30540 African Politics (3)
30550 Latin American Politics (3)
40540 Politics of Development (3)

Foreign Language Requirement . . . . . . . . . . . . . . . . . . . . .3
1. One course beyond the intermediate II level in French, German, Russian or Spanish. Students may appeal to their advisor for substitution of another language, when justified by special circumstances.
2. Satisfactory performance in a language proficiency test covering speaking, listening, reading and writing. This requirement also may be satisfied through completion of two additional approved courses in the same or a closely related language with at least a grade of B- (2.70). Prior approval for courses used in this connection must be given in writing by student’s advisor.

TOTAL  39
College of Arts and Sciences

B.A. in Justice Studies

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements ........................................... 24

JUS 12000 Introduction to Justice Studies .................. 3
22300 Police Role .............................................. 3
26701 Corrections .............................................. 3
26704 Issues in Law and Society ............................... 3
32400 Research Methods in Justice Studies ................ 3
36702 Criminology ............................................. 3
47211 Court Functions ........................................ 3

Choose from the following: .................................. 3
JUS 37311 Minorities in Crime and Justice (3)
37411 Women in Crime and Justice (3)

II. Major Electives ............................................... 21

Justice studies electives* ................................. minimum 12

The remaining hours can be selected from any course listed in the justice studies curriculum or from the following:

PHIL 31035 Philosophy and Justice (3)
POL 30130 Courts (3)
30301 Introduction to Public Administration (3)
40183 Constitutional Law: Civil Rights and Liberties (3)
PSYC 40111 Abnormal Psychology (3)
40383 Psychological Interventions (3)
SOC 32570 Inequality in Societies (3)
32762 Deviant Behavior (3)

TOTAL 45

*Fifteen of the 21 required credit hours (beyond the core) must be upper-division courses. A maximum total of 6 credit hours of JUS 45093 Variable Title Workshop, JUS 45096 Individual Investigation, JUS 46792 Internship and JUS 46798 Research in Justice Studies can be used to fulfill the 21 major elective credit hours. JUS 36792 Internship in Paralegal cannot be used as a major elective.

B.A. in 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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

Prerequisite
LAT 16202 Elementary II (3)
or equivalent skills

Core Requirements

CLAS 21201 English Words from Classical Elements ........ 3
CLAS 41006 Roman History (or HIST 41006) ............... 3
LAT 26201 Intermediate Latin I: Readings .................... 3
26202 Intermediate Latin II: Readings ....................... 3
36170 Cicero ................................................... 3
36171 Vergil .................................................... 3

Choose from the following: ................................. 9

CLAS 21404 The Greek Achievement (3)
21405 The Roman Achievement (3)
41097 Colloquium in Classics (3)
41301 Classical Mythology (3)
41402 Roman Archaeology and Art (3)
41503 Greek Literature in Translation (3)

Choose from the following: ................................. 9

LAT * 46095 Selected Topics in Latin (3)
46211 Latin Prose Composition (3)
46351 Latin Comedy (3)
46352 Elegiac Poets (3)
46372 Lyric Poetry (3)

* 46373 Advanced Prose Authors (3)
46374 Juvenal and Martial (3)
46375 Lucretius (3)

TOTAL 36

*May be repeated if different authors are read.
B.A. in Latin American Studies

(Luis Hermosilla, Department of Modern and Classical Languages)

Students majoring in Latin American studies must complete Intermediate II of either Spanish or Portuguese.

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

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

I. Core Requirements ................................. 15
MCLS 28404 The Latin American Experience ............... 3
Choose from each of the following subject areas:
Geography ............................................. 3
GEOG 37084 Geography of South America (3)
37085 Geography of Central America and Mexico (3)
History ................................................. 3
HIST 45697 Colloquium: Social History of Latin America (3)
45797 Colloquium: Comparative Latin American Revolutions (3)
Pan-African Studies ................................. 3
PAS 33508 Caribbean Social and Political Directions (3)
37143 African-Brazilian Experience in Culture and Literature (3)
Political Science ................................. 3
POL 30551 U.S.-Latin America Relations (3)
30550 Latin American Politics (3)

II. Elective courses ................................. 15
ANTH 38250 Religion: A Search for Meaning (3)
48230 Socio-Cultural Change (3)
48420 Archaeology of North America (3)
48425 Ancient Mesoamerica (3)
ECON 32083 Economics of Poverty (3)
42075 International Economic Relations (3)
ENG 21001 Introduction to Ethnic Literature of the U.S. (3)
GEOG 22061 Human Geography (3)
HIST 31143 20th-Century Mexico (3)
41143 20th-Century Mexico (3)
HONR 30497 Colloquium: International Study (1-4)
JUS 37311 Minorities in Crime and Justice (3)
MCLS 28403 Hispanics in the United States (3)
MUS 42111 African Music and Cultures (3)
PAS 24407 Caribbean Studies (3)
42095 Special Topics in the Literature of Pan-Africa (3)
POL 30820 International Organization and Law (3)
40830 U.S. Foreign Policy (3)
40840 Comparative Foreign Policy (3)
PORT 37330 Early Brazilian Literature (3)
37331 Recent Brazilian Literature (3)
37421 Luso-Brazilian Civilization (3)
SOC 32589 Minorities in America (3)
32610 Birth, Death and Migration (3)
SPAN 38334 Early Spanish American Literature (3)
38335 Recent Spanish American Literature (3)
38424 Culture and Civilization of Latin America (3)
48216 Contemporary Hispanic Culture (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)
48378 U.S. Latina/o Writers (3)
Any approved special topics course (3)

TOTAL 30

Students interested in the Latin American Studies major are strongly encouraged to take the following LER courses:

Humanities and Fine Arts: MUS 22121.
Social Sciences: ANTH 18210, POL 10004, 10500 and SOC 12050.

B.A. in Mathematics

(See also B.S. program)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

CS 10051 Introduction to Computer Science ............... 4
MATH* 12002 Analytic Geometry and Calculus I .............. 5
12003 Analytic Geometry and Calculus II .............. 5
21001 Linear Algebra with Applications .............. 3
22005 Analytic Geometry and Calculus III .............. 3
Approved 4000-level MATH or CS courses .............. 9
Choose one of the following sequences:  6
MATH 41001 Introduction to Modern Algebra I (3)
41002 Introduction to Modern Algebra II (3)
or
MATH 42001 Introduction to Analysis I (3)
42002 Introduction to Analysis II (3)

TOTAL 35

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

### 8.A. in Pan-African Studies

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

#### I. Core Requirements 21
PAS 13001 Foundations in Pan-African Studies I 3
13002 Foundations in Pan-African Studies II 3
37000 Oral and Written Discourses in Pan-African Studies 3
37010 Research Methods in Pan-African Studies 3
47091 Senior Seminar in Pan-African Studies 3

Choose from the following: 3
PAS 22200 Introduction to African Arts (3)
34000 Introduction to African World View (3)

Choose from the following: 3
PAS 35100 African American Social, Political and Economic Systems (3)
35200 African Social, Political and Economic Systems (3)

#### II. Choose one concentration (see below) 24

Major electives are selected with the approval of an advisor.

Pan-African Studies majors are recommended to satisfy their college language requirement with the study of an African language, such as Kiswahili or Yoruba.

#### Pan-African Studies Concentration

Twelve of the 24 credit hours in the concentration must be upper-division courses.

Pan-African Studies courses 18-21
Electives from other departments 3-6

### African Diaspora Studies Concentration

Twelve of the 24 credit hours in the concentration must be upper-division courses.

Choose from the following: 9-12
PAS 24407 Caribbean Studies I (3)
33110 The Black Woman: Historical Perspectives (3)
33120 The African American Man in Contemporary Society (3)
33171 The African American Community (3)
33508 Caribbean Social and Political Directions (3)
37143 The African-Brazilian Experience in Culture and Literature (3)
43395 Special Topics: African Diaspora Studies (3)

Choose from the following: 0-3
HIST 31140 Modern Latin America (3)
31141 Early Latin America (3)
MCLS 28404 The Latin American Experience (3)
PORT 37421 Luso-Brazilian Civilization (3)
Advisor-approved electives 12

### Pan-African Literature, Arts and Culture Concentration

Twelve of the 24 credit hours in the concentration must be upper-division courses.

Choose from the following: 9-12
PAS 22000 African World Creative Writing (3)
22101 African American Visual Artists (3)
22200 Introduction to African Arts (3)
22201 Expressivity in African Arts (3)
31092 Practicum in African Theatre Arts (3)
32010 The Pan-African Essay (3)
33200 Ancient African Cultures (3)
42095 Special Topics: Pan-African Literature, Arts and Culture (3)

Choose from the following: 0-3
MUS 42111 African Music and Cultures (3)
42161 History of Jazz (3)
45231 Jazz Ensemble (3)
Advisor-approved electives 12
Theoretical and Applied Research Concentration

Twelve of the 24 credit hours in the concentration must be upper-division courses.

Choose from the following: .............................................. 9-12

PAS 34000 Introduction to African World View (3)
37010 Research Methods in Pan-African Studies (3)
37020 Pan-Africanism and the Model African Union (3)
47010 Theoretical Approaches to Pan-African Studies (3)
47095 Special Topics: Theoretical and Applied Research (3)
47150 The Underground Railroad (3)

Choose from the following: .............................................. 0-3

PAS 30010 African and African American Philosophy (3)
POL 30001 Political Methods (3)
Advisor-approved electives .............................................. 12

24

B.A. in Paralegal Studies

(Hedi Nasheri, Coordinator)

The Bachelor of Arts in Paralegal Studies at Kent State University’s Kent Campus has been approved by the American Bar Association. Paralegal studies is an interdisciplinary program in the College of Arts and Sciences and is conducted in the Department of Justice Studies. Students also have the option to minor in paralegal studies in conjunction with a four-year baccalaureate degree. (See paralegal minor.)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

JUS 18000 Introduction to Paralegal Studies ............. 3
28001 Legal Research and Writing .................... 3
28004 Principles and Practice of Litigation ......... 3
* 36792 Internship in Paralegal ....................... 6
38006 Applied Legal Research and Litigation .... 3

Choose from the following: .............................................. 18
28003 Family Law and Procedure (3)
28007 Estate and Probate Administration (3)
38002 Contract Law (3)
38003 Administrative Law and Process (3)
38004 Legal Ethics and Professional Responsibility (3)
38005 Tort Law (3)
48300 Law of Corporations and Other Associations (3)
48400 Intellectual Property Law (3)

Choose from the following: .............................................. 12

ACCT 33000 Fundamental Tax Procedures (3)
FIN 26074 Legal Environment of Business (3)
JUS 33200 Criminal Law (3)
34200 Criminal Procedures and Evidence (3)
38007 Human Service Agencies and the Law (3)
47111 Civil Law and Procedure (3)
47211 Court Functions (3)
PHIL 31035 Philosophy and Justice (3)
41025 Philosophy of Law (3)
POL 30130 Courts (3)
30331 Introduction to Public Administration (3)
40182 Constitutional Law: Government Powers (3)
40183 Constitutional Law: Civil Rights and Liberties (3)

TOTAL 48

*May be taken up to 12 credit hours.

Minimum cumulative 2.00 GPA required for graduation.

Paralegals may not provide legal services directly to the public except as permitted by law.

B.A. in Philosophy

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

PHIL 11001 Introduction to Philosophy ................. 3
11009 Principles of Thinking ......................... 3
21001 Introduction to Ethics ......................... 3
21020 Comparative Religious Thought I ............ 3

Philosophy upper-division courses ....................... 15
minimum 9 credit hours at 40000 level

Choose from the following: .............................................. 3
PHIL 21002 Introduction to Formal Logic (3)
31045 Formal Logic (3)

Choose from the following: .............................................. 12
PHIL 31001 Ancient Greek Philosophy (3)
31002 Medieval Philosophy (3)
31003 Continental Rationalism (3)
31004 British Empiricism (3)
31005 German Critical Philosophy (3)
31006 19th-Century Philosophy (3)
31010 20th-Century Philosophy (3)
31020 American Philosophy (3)

TOTAL 42
## B.A. in Physics

(See also B.S. program)

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*12002</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>12003</td>
<td>Analytic Geometry and Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>32051</td>
<td>Mathematical Methods in the Physical Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>32052</td>
<td>Mathematical Methods in the Physical Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 12000</td>
<td>Introductory Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>23101</td>
<td>General University Physics I</td>
<td>5</td>
</tr>
<tr>
<td>23102</td>
<td>General University Physics II</td>
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<tr>
<td>30020</td>
<td>Intermediate Physics Laboratory</td>
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<tr>
<td>35101</td>
<td>Classical Mechanics</td>
<td>4</td>
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<tr>
<td>36001</td>
<td>Introductory Modern Physics</td>
<td>3</td>
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<tr>
<td>36002</td>
<td>Application of Modern Physics</td>
<td>3</td>
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<tr>
<td>40020</td>
<td>Advanced Physics Lab</td>
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<tr>
<td>45201</td>
<td>Electromagnetic Theory</td>
<td>4</td>
</tr>
</tbody>
</table>

Electives** ........................... 8

**Students in the B.A. program may replace 3 credit hours of these physics electives with either PHIL 41035 Philosophy of Science or ENG 20002 Introduction to Technical Writing, with advisor’s permission.

Courses that do not count toward the major:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>PHY 11030</td>
<td>Seven Ideas that Shook the Universe (3)</td>
</tr>
<tr>
<td>21040</td>
<td>Physics in Entertainment and the Arts (3)</td>
</tr>
<tr>
<td>21041</td>
<td>Physics in Entertainment and the Arts Laboratory (1)</td>
</tr>
<tr>
<td>21430</td>
<td>Frontiers in Astronomy (3)</td>
</tr>
<tr>
<td>24001</td>
<td>Astronomy (3)</td>
</tr>
</tbody>
</table>

All students must take this core of 24 credit hours plus 12 hours in one of the four concentrations listed below.

## B.A. in Political Science

All students must take this core of 24 credit hours plus 12 hours in one of the four concentrations listed below.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

### Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>POL 10004</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>10100</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>10300</td>
<td>Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>10500</td>
<td>World Politics</td>
<td>3</td>
</tr>
<tr>
<td>30001</td>
<td>Political Methods</td>
<td>3</td>
</tr>
<tr>
<td>30002</td>
<td>Political Thought</td>
<td>3</td>
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<tr>
<td>30003</td>
<td>Political Economy</td>
<td>3</td>
</tr>
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</table>

Choose from the following: ........................... 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>POL 40191</td>
<td>Seminar in American Politics</td>
</tr>
<tr>
<td>40391</td>
<td>Seminar in Public Policy</td>
</tr>
<tr>
<td>40591</td>
<td>Seminar in International Relations - Comparative Politics</td>
</tr>
</tbody>
</table>

### Choose one concentration (see below)

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Courses</th>
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<tr>
<td><strong>American Politics Concentration</strong></td>
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<tr>
<td>Choose from the following:</td>
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<tr>
<td>POL 30100</td>
<td>American Political Theory (3)</td>
</tr>
<tr>
<td>30110</td>
<td>The Congress (3)</td>
</tr>
<tr>
<td>30120</td>
<td>Presidency and Executive Bureaucracy (3)</td>
</tr>
<tr>
<td>30130</td>
<td>Courts (3)</td>
</tr>
<tr>
<td>30430</td>
<td>State Government (3)</td>
</tr>
<tr>
<td>30450</td>
<td>Metropolitan Governance (3)</td>
</tr>
<tr>
<td>30460</td>
<td>Federalism and Intergovernmental Relations (3)</td>
</tr>
<tr>
<td>40112</td>
<td>Politics and the Mass Media (3)</td>
</tr>
<tr>
<td>40116</td>
<td>Public Opinion and Political Behavior (3)</td>
</tr>
<tr>
<td>40118</td>
<td>Political Parties and Interest Groups (3)</td>
</tr>
<tr>
<td>40182</td>
<td>Constitutional Law: Government Powers (3)</td>
</tr>
<tr>
<td>40183</td>
<td>Constitutional Law: Civil Rights and Liberties (3)</td>
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<tr>
<td>40440</td>
<td>U.S. Environmental Politics and Policies (3)</td>
</tr>
<tr>
<td>40450</td>
<td>Social Welfare Policy and the Politics of Poverty (3)</td>
</tr>
<tr>
<td>40470</td>
<td>Women, Politics and Policy (3)</td>
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<tr>
<td>40920</td>
<td>Politics of Social Movements (3)</td>
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</table>

TOTAL 36

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>POL 30100</td>
<td>American Political Theory (3)</td>
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<td>The Congress (3)</td>
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<td>30120</td>
<td>Presidency and Executive Bureaucracy (3)</td>
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<td>Courts (3)</td>
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<td>30430</td>
<td>State Government (3)</td>
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<td>Politics and the Mass Media (3)</td>
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<td>Constitutional Law: Government Powers (3)</td>
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<td>U.S. Environmental Politics and Policies (3)</td>
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<td>Women, Politics and Policy (3)</td>
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<td>40920</td>
<td>Politics of Social Movements (3)</td>
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</tbody>
</table>

TOTAL 36

12
General Concentration

Upper-division courses ..................................<12
Selected in consultation with the student's advisor.

International Relations-Comparative Politics Concentration

Choose from the following: ...........................<12

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>POL 30500</td>
<td>International Relations Theory</td>
<td>3</td>
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<tr>
<td>30501</td>
<td>Comparative Theory &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>30520</td>
<td>European Politics</td>
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<td>30530</td>
<td>Asian Politics</td>
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<td>African Politics</td>
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<td>30550</td>
<td>Latin American Politics</td>
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<tr>
<td>30551</td>
<td>U.S.-Latin American Relations</td>
<td>3</td>
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<tr>
<td>30810</td>
<td>Politics of the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>30820</td>
<td>International Organization and Law</td>
<td>3</td>
</tr>
<tr>
<td>30840</td>
<td>Nongovernmental Organizations</td>
<td>3</td>
</tr>
<tr>
<td>40530</td>
<td>Politics of War</td>
<td>3</td>
</tr>
<tr>
<td>40540</td>
<td>Politics of Development</td>
<td>3</td>
</tr>
<tr>
<td>40560</td>
<td>Human Rights and Social Justice</td>
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<td>Government-Business Relations</td>
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<tr>
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Public Policy Concentration

Choose from the following: ...........................<12

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<td>30301</td>
<td>Introduction to Public Administration</td>
<td>3</td>
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<tr>
<td>30310</td>
<td>Qualitative Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>30350</td>
<td>Public Sector Dispute Resolution</td>
<td>3</td>
</tr>
<tr>
<td>30430</td>
<td>State Government</td>
<td>3</td>
</tr>
<tr>
<td>30450</td>
<td>Metropolitan Government</td>
<td>3</td>
</tr>
<tr>
<td>30460</td>
<td>Federalism and Intergovernmental</td>
<td>3</td>
</tr>
<tr>
<td>30810</td>
<td>Politics of the Global Economy</td>
<td>3</td>
</tr>
<tr>
<td>30820</td>
<td>International Organization and Law</td>
<td>3</td>
</tr>
<tr>
<td>30840</td>
<td>Nongovernmental Organizations</td>
<td>3</td>
</tr>
<tr>
<td>40320</td>
<td>Ethics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>40440</td>
<td>U.S. Environmental Politics and Policies</td>
<td>3</td>
</tr>
<tr>
<td>40450</td>
<td>Social Welfare Policy and the Politics of Poverty</td>
<td>3</td>
</tr>
<tr>
<td>40470</td>
<td>Women, Politics and Policy</td>
<td>3</td>
</tr>
<tr>
<td>40810</td>
<td>Government-Business Relations</td>
<td>3</td>
</tr>
<tr>
<td>40830</td>
<td>U.S. Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>40840</td>
<td>Comparative Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

40920  Politics of Social Movements (3) ...........................<12

POL 40996 Individual Investigation and POL 40992 Public Service may not be applied toward the upper-division credit hour requirement.

POL 40991 Washington Program in National Issues and POL 30991 Seminar: Columbus Program in Intergovernmental Issues may be applied to meet the elective upper-division credit hour requirement.

POL 40995 Special Topics may be applied to meet the upper-division credit hour requirement as approved by the department.

B.A. in Psychology

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 11762</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>21621</td>
<td>Quantitative Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>31574</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Psychology upper-division courses ..................&lt;8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Choose from the following: ..............................<3
| PSYC 20651  | Child Psychology                      | 3       |
| 21211       | Psychology of Adjustment              | 3       |
| Choose from the following: ..............................<3
| PSYC 31043  | Basic Learning Processes              | 3       |
| 41363       | Biopsychology                         | 3       |
| Choose from the following: ..............................<3
| PSYC 30445  | Cognitive Psychology                  | 3       |
| 31141       | Perception                            | 3       |
| Choose from the following: ..............................<3
| PSYC 41282  | Personality                           | 3       |
| 41532       | Social Psychology                     | 3       |
| Choose from the following: ..............................<1-3
| PSYC *41573 | Laboratory Experience in Psychological Research: Social/Clinical | 3 |
| PSYC *41574 | Laboratory Experience in Psychological Research: Cognitive/Learning | 3 |
| PSYC *41990 | Writing in Psychology                 | 1       |

TOTAL 30-32

*Course fulfills writing-intensive requirement.

Note 1: No more than 6 credit hours of PSYC 31498 and 41498 combined may be applied toward major requirements in psychology.
Note 2: Students following the pre-medical or pre-dentistry options must take PSYC 40111.

Note 3: It is recommended that psychology majors take an algebra course to fulfill their LER math and critical reasoning (MATH 11009 Modeling Algebra or MATH 11010 Algebra for Calculus).

B.A. in Russian

(See also B.S. in Russian 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.

Under no circumstances may the coursework taken toward the major drop below 30 credit hours.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

Prerequisite
RUSS 2202 Intermediate II (3)

Core Requirements
RUSS 32201 Intensive Russian Grammar .................................. 3
32211 Russian Composition and Conversation ................. 3
32215 Russian Phonetics and Diction .................................. 3
32303 Introduction to Modern Writers .................................. 3
32421 Russian Civilization ............................................. 3
42211 Advanced Composition and Conversation ................. 3
42351 Survey: Russian and Soviet Literature ............... 4
Russian literature or culture electives at 30000-40000 level ... 6
Russian elective at 40000 level ....................................... 3

TOTAL 31

B.A. in Sociocy

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

SOC 12050 Introduction to Sociology .................................... 3
32210 Researching Society ............................................. 3
32220 Data Analysis ...................................................... 3
32221 Data Analysis Laboratory ....................................... 1
42126 Sociological Theories ............................................ 3

Additional sociology courses ......................................... 21

Minimum 15 of 21 credit hours must be upper-division

TOTAL 34

B.A. in Soviet and East European Studies

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 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.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

Prerequisites
ECON 22060 Principles of Microeconomics (3)
22061 Principles of Macroeconomics (3)
GEOG 10160 Introduction to Geography (3)
RUSS 12201 Elementary Russian I (4)
RUSS 12202 Elementary Russian II (4)

Choose one of the following groups:

RUSS 22201 Intermediate Russian I (3)
22202 Intermediate Russian II (3)
or
East European language courses (14)

Core Requirements
AS 40197 Russian Area Studies Colloquium .................. 3
GEOG 37050 Geography of Russia and the Commonwealth States .... 3
47075 Resource Geography of U.S.S.R. ...................... 3
HIST 45597 Colloquium in Russian History .................. 3
POL 40438 International Relations of Europe ............. 3

Choose from the following: ............................................. 3

HIST 41044 Imperial Russia, 1689-1917 (3)
41049 Balkans: 18th Century to 1914 (3)

Choose from the following: ............................................. 3

HIST 41045 Modern Russia, 1917-Present (3)
41050 Balkans: 1914 to Present (3)

Choose from the following: ............................................. 3-4

HIST 31050 History and Society of Modern Greece (3)
31051 Romanian Civilization (3)
RUSS 32421 Russian Civilization (3)

TOTAL 24-25
The following courses, as they can be fit into a student’s program, would also be valuable as supportive elective selections:

- HIST 11050 History of Civilization I (3)
- HIST 11051 History of Civilization II (3)
- POL 10004 Comparative Politics (3)
- RUSS 32303 Modern Writers (3)
- RUSS 32325 Russian Poetry and Folklore (3)
- RUSS 32350 Russian Prose (3)
- RUSS 32354 Russian Drama (3)

**B.A. in Spanish**

(See also B.S. in Spanish Translation)

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.

Under no circumstances may the coursework taken toward the major drop below 30 credit hours.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

**Prerequisite**

- SPAN 28202 Intermediate Spanish II (3)
  or equivalent skills

**Core Requirements**

- SPAN 38211 Spanish Grammar and Composition ................. 3
- SPAN 38213 Spanish Reading and Conversation ................. 3
- SPAN 38215 Spanish Phonetics and Diction ................. 3
- SPAN 38421 Civilization of Spain ............................. 3
- SPAN 38424 Culture and Civilization of Latin America ............................. 3
- SPAN 48215 Advanced Spanish Composition and Conversation ............................. 3

Spanish literature or culture elective at 30000-40000 level .... 3
Spanish elective at the 40000-level ............................. 3
Choose from the following: ........................................... 9

SPAN 38330 Early Spanish Literature (3)
- SPAN 38331 Recent Spanish Literature (3)
- SPAN 38334 Early Spanish-American Literature (3)
- SPAN 38335 Recent Spanish-American Literature (3)

**TOTAL 33**

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

**B.A. in Teaching English as a Second Language**

Students interested in teacher licensure must contact the TESL coordinator within the English department for advising to complete the education minor listed under Minors in Other Colleges.

See Pages 170-172 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.A. program in the College of Arts and Sciences.

**ENG**

- 31001 Fundamentals of English Grammar ................. 3
- 31002 History of the English Language ................. 3
- 31003 Introduction to Linguistics ................. 3
- 31004 Lexicography/Lexicology ................. 3
- 31005 Child Second Language Acquisition ................. 3
- 31007 TESL Pedagogy I ................................. 3
- 41002 Computers in Second Language Teaching .......... 3
- 41092 ESL/EFL Practicum I ................................. 3

Choose from the following: ........................................... 6

COMM 35852 Intercultural Communication (3)

**ENG**

- 31006 World Englishes (3)
- 41001 Sociolinguistics in Schooling (3)
- 41002 Multicultural Psychology (3)

Choose from the following: ........................................... 3

**ENG**

- 30062 Principles of Technical Writing (3)
- 30063 Advanced Business and Professional Writing (3)
- 30064 Argumentative Prose Writing (3)
- 30065 Expository Prose Writing (3)

**TOTAL 36**

**BACHELOR OF SCIENCE**

**General Requirements**

The university’s Liberal Education Requirements and diversity course requirements (see Pages 85-91) 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).
General Requirements for B.S. Degree

The following general requirements apply to all Bachelor of Science programs in the College of Arts and Sciences.

I. General College or University Requirements

US 10097 First Year Experience FLASH Point

II. Composition

ENG 11011 College Writing I (or 11002 College Writing I-S) 3
21011 College Writing II 3
Placement by ACT/SAT English composition scores; students may be required to take ENG 11001 Introduction to College Writing Stretch.

III. Mathematics or Critical Reasoning

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

CS 10051 Introduction to Computer Science (3)
MATH 11008 Explorations in Modern Mathematics (3)
11009 Modeling Algebra (4)
11010 Algebra for Calculus (3)
11011 College Algebra (4)
11012 Intuitive Calculus (3)
12001 Algebra and Trigonometry (4)
12002 Analytic Geometry and Calculus I (5)

PHIL 21002 Introduction to Formal Logic (3)

Restrictions:

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

IV. Humanities and Fine Arts

All 9 credit hours in the Humanities and Fine Arts must be selected from the courses listed below. At least one course must be selected from the humanities category and at least one course must be selected from the fine arts category.

Restrictions:

No coursework from the major department may be counted toward the 6 credit hours selected from the courses listed below.

Note: Any course marked with a “D” that is taken to satisfy the social sciences category will also satisfy the diversity requirement, provided that course is not in the student’s major department. Diversity courses marked additionally with an asterisk (*) have a domestic (U.S.) focus.

V. Social Sciences

Coursework must be selected from at least two curricular areas.

Restrictions:

No coursework from the major department may be counted toward the 6 credit hours selected from the courses listed below.

Note: Any course marked with a “D” that is taken to satisfy the social sciences category will also satisfy the diversity requirement, provided that course is not in the student’s major department. Diversity courses marked additionally with an asterisk (*) have a domestic (U.S.) focus.

ANTHO 18210 Introduction to Cultural Anthropology (3)
18420 Introduction to Archaeology (3)
CACMo*11001 Introduction to Conflict Management (3)
ECON 22060 Principles of Microeconomics (3)
22061 Principles of Macroeconomics (3)
GEOG 10160 Introduction to Geography (3)
17063 World Geography (3)
17064 Geography of U.S. and Canada (3)
22061 Human Geography (3)
GERO*14029 Introduction to Gerontology (3)
JMCo* 20001 Media, Power and Culture (3)
JUS 26704 Issues in Law and Society (3)
POL 10004 Comparative Politics (3)
D* 10100 American Politics (3)  
D 10301 Diversity in American Public Policy (3)  
D 10500 World Politics (3)  
PSYC 11762 General Psychology (3)  
20651 Child Psychology (3)  
21211 Psychology of Adjustment (3)  
D* 22221 Multicultural Psychology (3)  
SOC* 12050 Introduction to Sociology (3)  
D 22778 Social Problems (3)  

VI. Basic Sciences ........................................ 6-7  
Must include at least one laboratory course.  

Restrictions:  
No coursework from the major department may be counted toward  
the 6 credit hours selected from the courses listed below.  
Credit toward the basic sciences category is not allowed for:  
- Both PHY 11660 and either the CHEM 10050, the CHEM 10060  
or the PHY 13001 series.  
- Both the CHEM 10050 and the CHEM 10060 series.  
- More than one of the PHY 13001, PHY 13011 or PHY 23101  
series.  
- Combinations of the BSCI 10001, the BSCI 10110 series and/or  
the BSCI 20020 series.  

ANTH 18630 Human Evolution (3)  
LAB 18631 Issues in Human Evolution (1)  

BSCI 10001 Human Biology (3)  
10002 Ecology, Evolution and Society (3)  
LAB 20020 Biological Structure and Function (5)  

CHEM 10030 Chemistry in Our World (3)  
10031 Chemistry in Our World Laboratory (1)  
10050 Fundamentals of Chemistry (3)  
10052 Introduction to Organic Chemistry (2)  
LAB 10053 Organic and Inorganic Chemistry (1)  
10054 General and Elementary Organic Chemistry (5)  

GEOG 21062 Physical Geography (3)  

LAB 21062 Physical Geography (3)  
GEOL 11040 Earth Dynamics (3)  
11041 Earth Dynamics Laboratory (1)  
11042 Earth History (3)  
11043 Earth History Laboratory (1)  
21082 Environmental Geology (3)  
21080 Oceanography (3)  

NUTR 23511 Science of Human Nutrition (3)  
PHY 11030 Seven Ideas That Shook the Universe (3)  
11660 Physical Science (3)  
13001 General College Physics I (4)  
13002 General College Physics II (4)  
13011 College Physics I (2)  
13012 College Physics II (2)  
LAB 13021 General College Physics Laboratory I (1)  
LAB 13022 General College Physics Laboratory II (1)  
21040 Physics in Entertainment and the Arts (3)  

LAB 21041 Physics in Entertainment and the Arts Laboratory (1)  
21430 Frontiers in Astronomy (3) or 24001 Astronomy (3)  

VII. Additional ........................................... 6  
Must be selected from two curricular areas. Select from any  
course remaining in categories III-VI, above, or from the  
following list:  
COMM 15000 Introduction to Human Communication (3)  
PHIL 11009 Principles of Thinking (3)  

VIII. Diversity .............................................. 0-3  
Students must complete a two-course diversity requirement, consis-  
ting of one with a domestic (U.S.) focus and one with a global  
focus. One course (“D” indicates global diversity, “D*” indicates  
domestic diversity) must be selected from category IV or V,  
above. This course may not be from the major department.  
The second diversity course (“D” indicates global diversity, “D*”  
indicates domestic diversity) may be selected from category IV or  
V, above, or from the complete list of diversity requirement  
courses on Pages 89-91. The second course may be from the  
major department; however, it might not apply toward the  
Humanities, Fine Arts or Social Sciences.  

IX. Writing-Intensive  
Students must complete a one-course writing-intensive require-  
ment and earn minimum C (2.00) grade. A complete list of  
writing-intensive courses is on Pages 93-95.  

X. Foreign Languages ......................................... 8  
Courses in one foreign language or American Sign Language or  
equivalent in proficiency is required. This requirement may be  
fulfilled by one of the following four conditions: (1) passing the  
first two semesters of any foreign language or American Sign  
Language. Students who receive advanced placement meet the  
requirement by passing the second semester of a language; (2)  
placement in courses beyond elementary II level on the placement  
examination administered by Academic Testing Services. Consult  
with the Department or Modern and Classical Languages for fur-  
ther information; (3) passing a course beyond elementary II level;  
or (4) receiving credit for elementary II or beyond from CBE,  
CLEP or transfer.  

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

TOTAL 45-51  

D Course fulfills diversity requirement, global focus.  
D*Course fulfills diversity requirement, domestic (U.S.) focus.  
**Course does not fulfill Liberal Education Requirement (LER).  

FIELDS OF CONCENTRATION  
Students pursuing the Bachelor of Science are required to study a  
foreign language or American Sign Language on at least the ele-  
mentary level (8 hours of coursework or the equivalent in proficien-
A particular field of concentration may require that students study one of the several 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 Bachelor of Science 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.

B.S. in Anthropology

See also B.A. program

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

I. Core Requirements

ANTH 18210 Introduction to Cultural Anthropology..............3
18420 Introduction to Archaeology ..................3
38630 Principles of Biological Anthropology ..............3
38480 Archaeological Analysis .....................3
38490 Quantitative Anthropology ................3
Anthropology upper-division electives .. ........15

II. Choose one concentration (see below) .. 16-18

B. S. in Anthropology

Total 72-74

*MATH 11022 fills prerequisite requirements for MATH 12002.
Students with sufficient background should bypass this course.

CS 10061 Introduction to Computer Programming may be substituted for one upper-division elective.

Archaeology Concentration

GEOG 10160 Introduction to Geography ..................3
29160 Mapping Our World ..........................3
GEOL 11040 Earth Dynamics .........................3
11041 Earth Dynamics Laboratory ...............1
Choose from the following: .......................3

GEOG 49070 Geographic Information Science (3)
49080 Advanced Geographic Information Science (3)
49230 Remote Sensing (3)
Choose from the following: .......................3-4

GEOL 21061 Glacial Geology (3)
23063 Mineralogy (4)
32066 Geomorphology (4)

16-17

Biological Anthropology Concentration

BSCI 10120 Biological Foundations ...................4
20140 Cell Biology .........................4
30156 Elements of Genetics ....................3
40163 Organic Evolution ................3
Choose from the following: .......................4

BSCI 30360 General Ecology (4)
30519 Vertebrate Embryology and Developmental Anatomy (4)
40275 Systematic Botany (4)
40430 General Physiology (4)

18
### B.S. in Applied Mathematics

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

I. Core Requirements ................................. 58

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10051 Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CS 23021 CS I: Programming and Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12002 Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 12003 Analytic Geometry and Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 21001 Linear Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 22005 Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 32044 Introduction to Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 40011 Introduction to Probability Theory/Applications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 40012 Introduction to Statistical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 41021 Theory of Matrices</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42031 Mathematical Models and Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42041 Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42045 Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42048 Introduction to Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>PHY 23101 General University Physics I</td>
<td>5</td>
</tr>
<tr>
<td>PHY 23102 General University Physics II</td>
<td>5</td>
</tr>
</tbody>
</table>

II. Choose one concentration (see below) ............................. 15  

TOTAL 73

### Applied Mathematics Concentration

The applied mathematics concentration emphasizes the classical aspects of the discipline, which are rooted in mathematical modeling and applications in the sciences. It couples well with physics as a minor or double major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 42041 Advanced Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42045 Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42048 Introduction to Complex Variables</td>
<td>3</td>
</tr>
<tr>
<td>Allied area electives**</td>
<td>6</td>
</tr>
</tbody>
</table>

### Computational Mathematics Concentration

The computational mathematics concentration is for students with interests in numerical modeling and scientific computing. It pairs well with a double major or minor in computer science; courses in the applied mathematics concentrations also form a suitable complement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 33001 CS II: Data Structures and Abstraction</td>
<td>3</td>
</tr>
<tr>
<td>MATH 23022 Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>Allied area electives**</td>
<td>9</td>
</tr>
</tbody>
</table>

### Financial Mathematics Concentration

The financial mathematics concentration prepares students for graduate programs in mathematical or computational finance or financial engineering, such as Kent State's interdisciplinary M.S. in financial engineering. Majors pursuing this concentration are required to take ECON 22060 and 22061 as prerequisites for FIN 36053; these two ECON courses can then be used to satisfy part of the Social Science LER courses for a B.S. degree in the College of Arts and Sciences. This concentration also couples well with minors or double majors in finance and in economics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 23020 Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FIN 36053 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 40051 Topics in Probability Theory and Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>MATH 42045 Introduction to Partial Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Allied area electives***</td>
<td>3</td>
</tr>
</tbody>
</table>

### Probability and Statistics Concentration

The probability and statistics concentration is for students interested in those general areas, including possible graduate study. It also serves students interested in a career in actuarial science.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 40051 Topics in Probability Theory and Stochastic Processes</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following:</td>
<td>3</td>
</tr>
<tr>
<td>MATH 40041 Statistical Methods for Experiments (3)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 40042 Sampling Theory (3)</td>
<td>3</td>
</tr>
<tr>
<td>Allied area electives**</td>
<td>9</td>
</tr>
</tbody>
</table>

* 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 advisor.

***Selected in consultation with the student’s major advisor from approved upper-division courses for majors in BSCI, CHEM, CS, MATH or PHY, or from the following courses: FIN 36054, 36059, 46054, 46055, 46064, 46067, ECON 32025, 32040, 32041, 32050.
### B.S. in Biology

*(See also B.A. program)*

Also see "Note" under Biological Sciences entry in Course Descriptions online.

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

#### I. Core Requirements ................................. 39-41

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>BSCI 10110</td>
<td>Biological Diversity</td>
<td>4</td>
</tr>
<tr>
<td>10120</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>30156</td>
<td>Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>40163</td>
<td>Organic Evolution</td>
<td>3</td>
</tr>
<tr>
<td>40600</td>
<td>Writing in Biology</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 10060</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>10061</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>10062</td>
<td>General Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>10063</td>
<td>General Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>MATH*12002</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose any one of the following:

*(Credit hours are applied as elective hours, see below.)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 40099</td>
<td>Senior Honors Thesis</td>
</tr>
<tr>
<td>40191</td>
<td>Senior Seminar (1)</td>
</tr>
<tr>
<td>40192</td>
<td>Internship in Biological Sciences (3-12)</td>
</tr>
<tr>
<td>40196</td>
<td>Individual Investigation (1-3)</td>
</tr>
</tbody>
</table>

Choose from the following: ................................ 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 20481</td>
<td>Basic Organic Chemistry I (4)</td>
</tr>
<tr>
<td>30481</td>
<td>Organic Chemistry I (3)</td>
</tr>
<tr>
<td>CHEM 20482</td>
<td>Basic Organic Chemistry II (2)</td>
</tr>
<tr>
<td>30475</td>
<td>Organic Chemistry Laboratory I (1)</td>
</tr>
<tr>
<td>30482</td>
<td>Organic Chemistry II (3)</td>
</tr>
</tbody>
</table>

Choose from the following: ................................ 3-5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 12002</td>
<td>Analytic Geometry and Calculus I (4)</td>
</tr>
<tr>
<td>30011</td>
<td>Basic Probability and Statistics (3)</td>
</tr>
</tbody>
</table>

#### II. Choose one concentration (see below) .......................... 38

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Molecular and Cellular Concentration</td>
<td>7</td>
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<tr>
<td>BSCI 20140 Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>40158 Molecular Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Guided biology and science electives**  .......... 31

**Biological sciences electives***

Select any combination of BSCI courses other than those used to meet the 7-credit-hour requirement, additional organic chemistry, and/or college or university physics (of those listed below). Visit www.kent.edu/biology for a complete list of BSCI courses. Students should consult with a biology advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 20482</td>
<td>Basic Organic Chemistry II (2)</td>
</tr>
<tr>
<td>or</td>
<td>30482 Organic Chemistry II (3)</td>
</tr>
<tr>
<td>30475</td>
<td>Organic Chemistry Laboratory I (1)</td>
</tr>
<tr>
<td>30476</td>
<td>Organic Chemistry Laboratory II (1)</td>
</tr>
</tbody>
</table>

**Organismal Concentration**

#### Required Courses, choose from the following: .............. 8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 20275</td>
<td>Local Flora (4)</td>
</tr>
<tr>
<td>20560</td>
<td>Invertebrate Zoology (4)</td>
</tr>
<tr>
<td>30171</td>
<td>General Microbiology (4)</td>
</tr>
<tr>
<td>30360</td>
<td>General Ecology (4)</td>
</tr>
<tr>
<td>30580</td>
<td>Entomology (4)</td>
</tr>
<tr>
<td>40272</td>
<td>Plant Anatomy (4)</td>
</tr>
<tr>
<td>40277</td>
<td>Morphology of Lower Plants (4)</td>
</tr>
<tr>
<td>40430</td>
<td>General Physiology (4)</td>
</tr>
<tr>
<td>40556</td>
<td>Vertebrate Zoology (4)</td>
</tr>
</tbody>
</table>

**Guided biology and science electives** .............. 30

**Biological sciences electives***

Select any combination of BSCI courses other than those used to meet the 8-credit-hour requirement, additional organic chemistry and/or college or university physics (of those listed below). Visit www.kent.edu/biology for a complete list of BSCI courses. Students should consult with a biology advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 20482</td>
<td>Basic Organic Chemistry II (2)</td>
</tr>
<tr>
<td>or</td>
<td>30482 Organic Chemistry II (3)</td>
</tr>
<tr>
<td>30475</td>
<td>Organic Chemistry Laboratory I (1)</td>
</tr>
<tr>
<td>30476</td>
<td>Organic Chemistry Laboratory II (1)</td>
</tr>
</tbody>
</table>
PHY 13001 General College Physics I (4)
13021 General College Physics Laboratory I (1)
or
23101 General University Physics I (5)
13002 General College Physics II (4)
13022 General College Physics Laboratory II (1)
or
23102 General University Physics II (5)

**Total 38**

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

**CHEM 30284 may be substituted for the second organic chemistry course requirement with approval of the major advisor.

***Maximum 6 credit hours of any combination of BSCI 40099, 40191, 40192, 40193 or 40196 may be used toward fulfillment of the elective options. Maximum 4 credit hours of these courses may be S/U graded.

---

**B.S. in Botany**

Also see “Note” under Biological Sciences entry in Course Descriptions online.

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

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I. **Core Requirements** ............................................ .51-53

BSCI 10110 Biological Diversity .......................... .4
10120 Biological Foundations ................................... .4
30156 Elements of Genetics ................................... .3
40163 Organic Evolution ...................................... .3
40600 Writing in the Biological Sciences .............. .1

CHEM 10060 General Chemistry I ...................... .4
10061 General Chemistry II ............................. .4
10062 General Chemistry Laboratory I ............... .4
10063 General Chemistry Laboratory II .............. .4

MATH*12002 Analytic Geometry and Calculus I ....... .5

Choose any one of the following:
(Credit hours are applied as elective hours. See below.)

BSCI 40099 Senior Honors Thesis (1-10)
40191 Senior Seminar (1)
40192 Internship in Biological Sciences (3-12)
40196 Individual Investigation (1-3)

Choose from the following: .................................... .12

BSCI 20275 Local Flora (4)
30267 Plant Physiology (4)
30274 Forestry (2)

30277 Economic Botany (2)
40164 Molecular Systematics and Phylogenetics (4)
40272 Plant Anatomy (4)
40277 Morphology of Lower Plants (4)

Choose from the following: .................................... .4

CHEM 20481 Basic Organic Chemistry I (4)
30481 Organic Chemistry I (3)

Choose from the following: .................................... .2

CHEM 20482 Basic Organic Chemistry II (2)
30475 Organic Chemistry Laboratory I (1)
30482 Organic Chemistry II (3)

Choose from the following: .................................... .3-5

MATH 12003 Analytic Geometry and Calculus II (5)
30011 Basic Probability and Statistics (3)

**II. Guided biology and science electives** .................. .26

Biological science electives**

Select any combination of BSCI courses other than those used to meet the 12-credit-hour requirement, additional organic chemistry and/or college or university physics (of those listed below). Visit www.kent.edu/biology for a complete list of BSCI courses. Students should consult with a botany advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

CHEM 20482 Basic Organic Chemistry II (2)
or
30482 Organic Chemistry II (3)
30475 Organic Chemistry Laboratory I (1)
30476 Organic Chemistry Laboratory II (1)

PHY 13001 General College Physics I (4)
13021 General College Physics Laboratory I (1)
or
23101 General University Physics I (5)
13002 General College Physics II (4)
13022 General College Physics Laboratory II (1)
or
23102 General University Physics II (5)

**Total 77-79**

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

**CHEM 30284 may be substituted for the second organic chemistry course requirement with approval of the major advisor.

***Maximum 6 credit hours of any combination of BSCI 40099, 40191, 40192, 40193 or 40196 may be used toward fulfillment of the elective options. Maximum 4 credit hours of these courses may be S/U graded.
### B.S. in Chemistry

(See also B.A. program)

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

I. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30101</td>
<td>Quantitative Analysis</td>
<td>2</td>
</tr>
<tr>
<td>30475</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>30476</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>30481</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>30482</td>
<td>Organic Chemistry II</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following groups:

- CHEM 10060 General Chemistry I (4)
- 10061 General Chemistry II (4)
- 10062 General Chemistry Laboratory I (1)
- 10063 General Chemistry Laboratory II (1)
- or
- 10960 Honors General Chemistry (5)
- 10961 Honors General Chemistry (5)

II. Choose one concentration (see below) 54-61

**Biological Chemistry Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10120</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>20140</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>30156</td>
<td>Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>30171</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 30102</td>
<td>Quantitative Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>30360</td>
<td>Aqueous Descriptive Inorganic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>40245</td>
<td>Biochemical Foundations of Medicine</td>
<td>4</td>
</tr>
<tr>
<td>40248</td>
<td>Advanced Biological Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>40251</td>
<td>Advanced Biological Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>40263</td>
<td>Physical Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>40567</td>
<td>Basic Concepts of Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>40568</td>
<td>Elementary Physical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 12021</td>
<td>Calculus for Life Sciences</td>
<td>4</td>
</tr>
<tr>
<td>12022</td>
<td>Probability and Statistics for Life Sciences</td>
<td>3</td>
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<tr>
<td>PHY 13001</td>
<td>General College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>13002</td>
<td>General College Physics II</td>
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</tr>
<tr>
<td>13022</td>
<td>General College Physics Laboratory II</td>
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</tbody>
</table>

Choose from the following:

- or approved upper-division chemistry electives

**Chemistry Concentration**

This program meets the minimum requirements for the American Chemical Society certification.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30102</td>
<td>Quantitative Analysis Laboratory</td>
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<tr>
<td>30103</td>
<td>Instrumental Analysis</td>
<td>2</td>
</tr>
<tr>
<td>30104</td>
<td>Instrumental Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>30284</td>
<td>Introductory Biological Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>30360</td>
<td>Aqueous Descriptive Inorganic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>40361</td>
<td>Intermediate Inorganic Chemistry</td>
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<tr>
<td>40362</td>
<td>Intermediate Inorganic Chemistry</td>
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</tr>
<tr>
<td>40364</td>
<td>Intermediate Inorganic Chemistry Laboratory</td>
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</tr>
<tr>
<td>40477</td>
<td>Intermediate Organic Chemistry Laboratory</td>
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</tr>
<tr>
<td>40483</td>
<td>Intermediate Organic Chemistry</td>
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</tr>
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<td>40555</td>
<td>Elementary Physical Chemistry</td>
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<td>Physical Chemistry Laboratory</td>
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<tr>
<td>40568</td>
<td>Elementary Physical Chemistry Laboratory</td>
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</tr>
<tr>
<td>Chemistry 40000-level courses (advisor approved)</td>
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**Materials Chemistry Concentration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30050</td>
<td>Introduction to Materials Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>30103</td>
<td>Instrumental Analysis</td>
<td>2</td>
</tr>
<tr>
<td>30284</td>
<td>Introductory Biological Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>30360</td>
<td>Aqueous Descriptive Inorganic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>40053</td>
<td>Materials Chemistry Laboratory</td>
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</tr>
<tr>
<td>40352</td>
<td>Inorganic Materials Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
**B.S. in Computer Science**

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

**CS**
- *10051 Introduction to Computer Science .................. 4
  - *23021 CS I: Programming and Problem Solving ............ 4
  - 23022 Discrete Structures for Computer Science .......... 3
  - *33001 CS II: Data Structures and Abstraction ............ 3
  - 33006 Social and Ethical Issues in Computing ............. 3
  - *33101 Structure of Programming Languages ................ 3
  - 33211 Operating Systems ................................... 3
  - 35101 Computer Architecture ................................ 3
  - 43005 Database Systems Design ............................. 3
  - 43901 Software Engineering .................................. 3
  - 45201 Computer Communication Networks .................... 3
  - 46101 Design and Analysis of Algorithms ................... 3
  - 49901 Capstone Project ..................................... 4

Computer science approved 4000-level courses .................. 9

Computer science approved upper-division courses** ................. 6

**MATH***12002 Analytic Geometry and Calculus I .................. 5

**12003 Analytic Geometry and Calculus II ....................... 5

**22005 Analytic Geometry and Calculus III ...................... 3

**PHY**
- 23101 General University Physics I ............................ 5
- 23102 General University Physics II ............................ 5

Choose from the following: ........................................ 2

**CHEM**
- 30102 Quantitative Analysis Laboratory (1) .................. 1
- 30104 Instrumental Analysis Laboratory (2) ................. 1
- 40477 Intermediate Organic Chemistry Laboratory (1) ....... 1
- 40483 Intermediate Organic Chemistry (1) ...................... 1
- 40568 Elementary Physical Chemical Laboratory (1) ......... 1

40571 Surface Chemistry (2)

40796 Individual Investigation (1-2)

56

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

---

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

I. Core Requirements .................................................. 30

  **BSCI**
  - 10110 Biological Diversity ................................... 4
  - 10120 Biological Foundations ................................ 4
  - 30156 Elements of Genetics ................................... 3
  - 40163 Organic Evolution ........................................ 3
  - 40600 Writing in Biological Sciences ......................... 1

  **CHEM**
  - 10060 General Chemistry I .................................... 4
  - 10061 General Chemistry II .................................... 4
  - 10062 General Chemistry Laboratory I ........................ 1
  - 10063 General Chemistry Laboratory II ........................ 1
  - **MATH**12002 Analytic Geometry and Calculus I ............ 5

II. Statistics Requirements, choose from the following: ........... 3

  **GEOG**
  - 39002 Statistical Methods in Geography (3)
  - 42035 Scientific Method in Geology (3)

III. Geology Requirements ............................................. 4

  **GEOG**
  - 11040 Earth Dynamics ........................................... 3
  - 11041 Earth Dynamics Laboratory ................................ 1

IV. Geology Electives, choose from the following: ................. 6-8

  **GEOG**
  - 32086 Geomorphology (4)
  - 41077 Geology of the National Parks (3)
  - 42067 Introductory Hydrogeology (3)
  - 42069 Hydrogeochimistry (3)
  - 42078 Engineering Geology (4)

  Geology upper-division courses with advisor approval (3-4)

V. Geography Electives, choose from the following: ............... 9

  **GEOG**
  - 31062 Fundamentals of Meteorology (3)
  - 31064 Principles of Climatology (3)
  - 41066 Climate Change and Its Impact (3)
  - 41073 Conservation of Natural Resources (3)
College of Arts and Sciences

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41074 Resource Geography (3)
41082 Geography of Soils (3)
49070 Geographic Information Science (3)
49089 Advanced Geographic Information Science (3)
49230 Remote Sensing (3)

VI. Conservation Requirements

BSCI 30360 General Ecology .......................... 4
40374 Conservation Biology .......................... 4

VII. Botany Electives, choose from the following: .......................... 4
BSCI 20275 Local Flora (4)
30267 Plant Physiology (4)
30274 Forestry (2)
30277 Economic Botany (2)
40272 Plant Anatomy (4)
40275 Systematic Botany (4)
40277 Morphology of Lower Plants (4)

VIII. Zoology Electives, choose from the following: .................. 3-4
BSCI 20560 Invertebrate Zoology (4)
30580 Entomology (4)
30582 Ornithology (3)
40439 Environmental Physiology (4)
40515 Animal Behavior (3)
40525 Wildlife Resources (3)
40556 Vertebrate Zoology (4)

IX. General Electives ........................................ 14
BSCI upper-division electives **
Choose from the following: .................................................. maximum 11
ANTH 48835 Primate Ecology and Conservation (3)
CHEM**20481 Basic Organic Chemistry I (4)
** 30475 Organic Chemistry Laboratory I (1)
30476 Organic Chemistry Laboratory II (1)
** 30481 Organic Chemistry I (3)
** 30482 Organic Chemistry II (3)
CS 10051 Introduction to Computer Science (4)
MATH 12003 Analytic Geometry and Calculus II (5)

TOTAL 81-84

*BATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.
** Students wishing to go onto a graduate program are encouraged to take CHEM 20481 or 30481 and 30475 or 20482 or 30482.

Students who intend to enter a Master of Science program should take BSCI 20140, MATH 12002 and the organic chemistry requirements for the B.S. in biology. A Master of Arts program may not require these. Upper-division elective hours should be used to specialize in an area of interest.

B.S. in French Translation

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

It is strongly recommended that students in the Bachelor of Science in French Translation take BSCI 10001, CHEM 10050, GEOL 21062 and ECON 22060 and 22061 as part of their Liberal Education Requirements (LER).

Prerequisites
Any portion of the prerequisites may be waived by demonstrated proficiency.
FR 13201 Elementary French I (4)
13202 Elementary French II (4)
23201 Intermediate French I (3)
23202 Intermediate French II (3)

I. Language Core Requirements ................................. 21
FR 33211 French Conversation .......................... 3
33212 French Composition .......................... 3
33215 French Phonetics and Diction .......................... 3
33421 French Civilization .......................... 3
French 30000-level literature courses .......................... 6
Choose from the following: .................................................. 3
FR 43213 French Composition Advanced (3)
43216 Contemporary French Culture (3)

II. Translation/Business Language Requirements .................. 22
The following courses are on a two-year rotation. Business language courses are offered in one academic year and translation courses in the other. Students in the major should always enroll in the courses that are currently being offered. FR 33231 and MCLS 30230 are taken concurrently.
FR 33231 Translation Practice .......................... 1
33240 Conversation for Business and Special Purposes: French .......................... 3
43230 Advanced Translation Practice .......................... 3
43240 Business and Special Texts .......................... 3
MCLS 30230 Approaches to Translation .......................... 3
40420 Foreign Language and Culture Studies .......................... 3
Choose from the following: .................................................. 3
ENG 20092 Introduction to Technical Writing (3)
30063 Business and Professional Writing (3)
Choose from the following: .................................................. 3
CS 10001 Computer Literacy (3)
10061 Introduction to Computer Programming (3)
MIS 24070 Principles of Systems Development (3)
24053 Introduction to Computer Applications (3)
III. Subject Area Specialty ........................................ 39

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 credit hours of a different language in the sequence through composition/conversa-
tion. It may also optionally include MCLS 23217 The Franco-
phone Experience.

TOTAL 82

B.S. in Geology

(See also B.A. program)

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

Choose from the following: ........................................ 3

GEOL 41025 General Geophysics (3)
43040 Principles of Geochemistry (3)

Choose from the following: ........................................ 3-5

MATH 12003 Analytic Geometry and Calculus II (5)
21001 Linear Algebra (3)

TOTAL 85-87

B.S. in German Translation

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

It is strongly recommended that students in the Bachelor of Science in German Translation take BSCI 10001, CHEM 10050, GEOL 21062 and ECON 22069 and 22061 as part of their Liberal Education Requirements (LER).

Prerequisites

Any portion of the prerequisites may be waived by demonstrated proficiency.

GER 11201 Elementary German I (4)
GER 11202 Elementary German II (4)
GER 21201 Intermediate German I (3)
GER 21202 Intermediate German II (3)

I. Language Core Requirements .................................. 21

GER 31201 Intensive German Grammar ...................... 3
31211 German Composition and Conversation .............. 3
31215 German Phonetics and Diction ....................... 3
31303 Introduction to German Literature ................... 3
31421 German Civilization .................................... 3
41211 Advanced German Composition and Conversation 3
41216 Contemporary German Culture ....................... 3

II. Translation/Business Language Requirements ........... 22

The following courses are on a two-year rotation. Business lan-
guage courses are offered in one academic year and translation courses in the other. Students in the major should always enroll in the courses that are currently being offered. GER 31231 and MCLS 30230 are taken concurrently.

GER 31231 Translation Practice ............................... 1
31240 Conversation for Business and Special Purposes 3
41230 Advanced Translation Practice ....................... 3
41240 Business and Special Texts ............................ 3
MCLS 30230 Approaches to Translation .................... 3
40420 Foreign Language and Culture Studies ............. 3

Choose from the following: ............................... 3

ENG 20002 Introduction to Technical Writing (3)
30063 Business and Professional Writing (3)
Choose from the following:  
CS  10001  Computer Literacy (3)  
   10061  Introduction to Computer Programming (3)  
MIS  24070  Principles of Systems Development (3)  
   24053  Introduction to Computer Applications (3)  

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>TOTAL 82</td>
<td></td>
</tr>
</tbody>
</table>

B.S. in Mathematics  
(See also B.A. program)  
See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CS  10051</td>
<td>4</td>
</tr>
<tr>
<td>MATH*12002</td>
<td>5</td>
</tr>
<tr>
<td>12003</td>
<td>5</td>
</tr>
<tr>
<td>21005</td>
<td>3</td>
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<tr>
<td>41001</td>
<td>3</td>
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<tr>
<td>41002</td>
<td>3</td>
</tr>
<tr>
<td>41021</td>
<td>3</td>
</tr>
<tr>
<td>42001</td>
<td>3</td>
</tr>
<tr>
<td>42002</td>
<td>3</td>
</tr>
<tr>
<td>PHY 23101</td>
<td>5</td>
</tr>
<tr>
<td>Additional courses**</td>
<td>9</td>
</tr>
<tr>
<td>TOTAL 67</td>
<td></td>
</tr>
</tbody>
</table>

* MATH 11010 and 11022 are prerequisites for MATH 12002 and should be bypassed by students with sufficient background. MATH 11010 and 11022 may be waived by obtaining permission of the Department of Mathematical Sciences or by passing the placement exam.

** PHY 40099 or 40096 may be substituted for PHY 40092 with curriculum advisor's permission. For PHY 40096 to substitute, a suitable research project should be selected.

B.S. in Physics  
(See also B.A. program)  
See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

I. Core Requirements  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CHEM 10060</td>
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<td>10061</td>
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<td>10062</td>
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<td>10063</td>
<td>1</td>
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<tr>
<td>MATH*12002</td>
<td>5</td>
</tr>
<tr>
<td>12003</td>
<td>5</td>
</tr>
<tr>
<td>32051</td>
<td>4</td>
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<tr>
<td>32052</td>
<td>4</td>
</tr>
<tr>
<td>PHY 12000</td>
<td>1</td>
</tr>
<tr>
<td>23101</td>
<td>5</td>
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<tr>
<td>23102</td>
<td>5</td>
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<tr>
<td>30020</td>
<td>2</td>
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<td>35101</td>
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<td>36001</td>
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<tr>
<td>40020</td>
<td>2</td>
</tr>
<tr>
<td>**40092</td>
<td>2</td>
</tr>
<tr>
<td>45201</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL 56</td>
<td></td>
</tr>
</tbody>
</table>

** PHY 40099 or 40096 may be substituted for PHY 40092 with curriculum advisor's permission. For PHY 40096 to substitute, a suitable research project should be selected.

II. Choose one option/concentration (see below)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td></td>
</tr>
<tr>
<td>PHY</td>
<td></td>
</tr>
<tr>
<td>TOTAL 32</td>
<td></td>
</tr>
</tbody>
</table>

Physics Concentration  
Students taking the physics concentration should choose either the research option or the applied physics option.

* MATH 12001 is a prerequisite for MATH 12002 and should be bypassed by students with sufficient background.
** Courses should be approved, upper-division MATH courses; or from upper-division courses for majors in MIS, BSCI, CHEM, CS, ECON, GEOL or PHY; or from PHIL 31045, 41035 or 41045.
Physics Interdisciplinary Concentration

Students in the physics interdisciplinary concentration should take one of four options: chemistry, biological sciences, applied mathematics and computer science or mathematics.

I. Chemistry Option ................................. 32
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 high-technology materials-related research and development laboratory.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30101</td>
<td>Quantitative Analysis</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 30102</td>
<td>Quantitative Analysis Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 30360</td>
<td>Aqueous Descriptive Inorganic Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 30475</td>
<td>Organic Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 36002</td>
<td>Applications of Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 45301</td>
<td>Thermal Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from the following: 4-6

CHEM*20481 Basic Organic Chemistry I (4)
CHEM 30481 Organic Chemistry I (3)
CHEM 30482 Organic Chemistry II (3)

II. Applied Physics Option ............................... 32
The applied physics option is designed to prepare physics majors for immediate entry into careers in industry.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10061</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>PHY 22564</td>
<td>Introduction to Materials Physics</td>
<td>3</td>
</tr>
<tr>
<td>32511</td>
<td>Electronics</td>
<td>4</td>
</tr>
<tr>
<td>36002</td>
<td>Applications of Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>45403</td>
<td>Data Analysis and Computational Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Physics electives* ........................................... 7

General electives ............................................. 6

*These courses may be replaced with physics-related electives selected from mathematics or the natural sciences with advisor’s permission.

III. Biological Sciences Option .................... 32
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.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 10110</td>
<td>Biological Diversity</td>
<td>4</td>
</tr>
<tr>
<td>BSCI 10120</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>20140</td>
<td>Cell Biology</td>
<td></td>
</tr>
<tr>
<td>30156</td>
<td>Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>40163</td>
<td>Organic Evolution</td>
<td>3</td>
</tr>
<tr>
<td>PHY 45301</td>
<td>Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>Biological sciences upper-division electives</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Major upper-division electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General electives</td>
<td>........................................... 4</td>
<td></td>
</tr>
</tbody>
</table>

Recommended major electives:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 40158</td>
<td>Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 30481</td>
<td>Organic Chemistry I (3)</td>
<td></td>
</tr>
<tr>
<td>PHY 44600</td>
<td>Introduction to Biological Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. Mathematics Option ................................. 32
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 a minor in computer science.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10051</td>
<td>Introduction to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>23021</td>
<td>CS I: Programming and Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>23022</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>33021</td>
<td>CS II: Data Structures and Abstraction</td>
<td>3</td>
</tr>
<tr>
<td>PHY 36002</td>
<td>Applications of Modern Physics</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer science upper-division electives ........................................... 6

Physics upper-division electives ........................................... 3

General electives ........................................... 3

Physics majors who may wish to become part of a technical team in a research and development laboratory should consider the mathematics option.
College of Arts and Sciences

CS 10051 Introduction to Computer Science ............ 4
PHY 36002 Applications of Modern Physics ............ 3
Choose from the following: .............................. 3
MATH 41001 Introduction to Modern Algebra I (3)
42001 Introduction to Analysis I (3)
Mathematics electives at 40000 level .................... 9
Physics electives ........................................ 7
General electives ........................................ 6

*Students must choose either CHEM 20481 or CHEM 30481 and 30482.
**CHEM 20482 may not be taken if CHEM 30481 and 30482 are taken.
***Students who choose CHEM 40567 should not also take CHEM 40556.
****CHEM 40568 may only be selected if CHEM 40556 or 40567 is taken as a pre/corequisite.
*****CS 42201 requires MATH 12003 and 21001 as prerequisites.
******MATH 41001 and 42001 require MATH 21001 and 22005 as prerequisites.

Courses that do not count toward the major:
PHY 11030 Seven Ideas that Shook the Universe (3)
21040 Physics in Entertainment and the Arts (3)
21041 Physics in Entertainment and the Arts Laboratory (1)
21430 Frontiers in Astronomy (3)
24001 Astronomy (3)

B.S. in Russian Translation

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

It is strongly recommended that students in the Bachelor of Science in Russian Translation take BSCI 10001, CHEM 10050, GEOL 21062 and ECON 22060 and 22061 as part of their Liberal Education Requirements (LER).

Prerequisites
Any portion of the prerequisites may be waived by demonstrated proficiency.

RUSS 12201 Elementary Russian I (4)
RUSS 12202 Elementary Russian II (4)
RUSS 22201 Intermediate Russian I (3)
RUSS 22202 Intermediate Russian II (3)

I. Language Core Requirements .......................... 21

RUSS 32201 Intensive Russian Grammar .................. 3
32211 Russian Composition and Conversation .......... 3
32215 Russian Phonetics and Diction .................. 3
32303 Modern Writers ................................. 3
32421 Russian Civilization ............................... 3
42211 Advanced Composition and Conversation ....... 3
Russian 30000-40000-level literature course .......... 3

II. Translation/Business Language Requirements ....... 22

The following courses 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.

MCLS 30230 Approaches to Translation .................. 3
40420 Foreign Languages and Culture Studies .......... 3
RUSS 32231 Translation Practice ....................... 1
32240 Conversations for Business and Special Purposes: Russian .................. 3
42230 Advanced Translation Practice ..................... 3
42240 Business and Special Texts ....................... 3

Choose from the following: ................................ 3

ENG 20002 Introduction to Technical Writing (3)
30063 Business and Professional Writing (3)

Choose from the following: ................................ 3

CS 10001 Computer Literacy (3)
10061 Introduction to Computer Programming (3)
MIS 24053 Introduction to Computer Applications (3)
24070 Principles of Systems Development (3)

III. Subject Area Specialty ................................. 39

The Subject Area Specialty is a department-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 maximum 17 credit hours of a different language in the sequence through composition/conversation. It may also optionally include MCLS 22217 Diversity in Today’s Russia.

TOTAL 82
## B.S. in Spanish Translation

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

It is strongly recommended that students in the Bachelor of Science in Spanish Translation take BSCI 10001, CHEM 10050, GEOL 21062 and ECON 22060 and 22061 as part of their Liberal Education Requirements (LER).

### Prerequisites

Any portion of the prerequisites may be waived by demonstrated proficiency.

- **SPAN 18201** Elementary Spanish I (4)
- **SPAN 18202** Elementary Spanish II (4)
- **SPAN 28201** Intermediate Spanish I (3)
- **SPAN 28202** Intermediate Spanish II (3)

### I. Language Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 38211 Spanish Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38213 Spanish Reading and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38215 Spanish Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38421 Civilization of Spain</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38424 Culture and Civilization of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>48215 Advanced Spanish Composition and Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Spanish 30000-40000-level literature course 3

### II. Translation/Business Language Requirements

The following courses are offered 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 SPAN 38231 are taken concurrently.

- **MCLS 30230** Approaches to Translation 3
- **SPAN 38231** Translation Practice: Spanish 3
- **SPAN 38240** Conversation for Business and Special Purposes 3
- **48230** Advanced Translation Practice 3
- **48240** Business and Special Texts 3

Choose one from the following: 3

- **ENG 20002** Introduction to Technical Writing (3)
- **CS 10001** Computer Literacy (3)
- **CS 10061** Introduction to Computer Programming (3)
- **MIS 24053** Introduction to Computer Applications (3)
- **24070** Principles of Systems Development (3)

### III. Subject Area Specialty

The Subject Area Specialty is a departmental-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 credit hours of a different language in the sequence through composition/conversation. It may also optionally include MCLS 28405 The Spanish Experience.

**TOTAL** 82

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## B.S. in Zoology

(Also see “Note” under Biological Sciences entry in Course Descriptions online.)

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

### I. Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSCI 10110 Biological Diversity</td>
<td>4</td>
</tr>
<tr>
<td>10120 Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td>30156 Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>40163 Organic Evolution</td>
<td>3</td>
</tr>
<tr>
<td>40600 Writing in Biological Sciences</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 10060 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>10061 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>10062 General Chemistry Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>10063 General Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>MATH *12002 Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
</tbody>
</table>

Choose one of the following: Credit hours are applied as elective hours, see below.

- **BSCI 40099** Senior Honors Thesis (1-10)
- **40191** Senior Seminar (1)
- **40192** Internship in Biological Sciences (3-12)
- **40196** Individual Investigation (1-3)

Choose from the following: 4

- **CHEM 20481** Basic Organic Chemistry I (4)
- **30481** Organic Chemistry I (3)

Choose from the following: 2

- **CHEM 20482** Basic Organic Chemistry II (2)
- **30475** Organic Chemistry Laboratory I (1)
- **30482** Organic Chemistry II (3)

Choose one from the following: 3-5
**College of Arts and Sciences**

MATH 12003 Analytic Geometry and Calculus II (5)
30011 Basic Probability and Statistics (3)

II. **Required Courses, choose from the following:**  . . . . . . . . . . . . .12
BSCI 20140 Cell Biology (4)
20560 Invertebrate Zoology (4)
30171 General Microbiology (4)
30360 General Ecology (4)
30518 Vertebrate Anatomy (4)
30519 Vertebrate Embryology/Developmental Anatomy (4)
30580 Entomology (4)
40430 General Physiology (4)
40433 Mammalian Physiology I (4)
40434 Mammalian Physiology II (4)
40515 Animal Behavior (3)
40556 Vertebrate Zoology (4)
40581 Animal Parasitology (4)

III. **Guided Biology and Science Electives**  . . . . . . . . . . . . . . . . . . .26
Biological sciences electives***

Select any combination of BSCI courses other than those used to meet the 12-credit-hour requirement, additional organic chemistry and/or college or university physics (of those listed below). Visit www.kent.edu/biology for a complete list of BSCI courses. Students should consult with a zoology advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

CHEM 20482 Basic Organic Chemistry II (2)
or
30482 Organic Chemistry II (3)
30475 Organic Chemistry Laboratory I (1)
30476 Organic Chemistry Laboratory II (1)

PHY 13001 General College Physics I (4)
13021 General College Physics Laboratory I (1)

or
23101 General University Physics I (5)
13002 General College Physics II (4)
13022 General College Physics Laboratory II (1)

or
23102 General University Physics II (5)

TOTAL 77-79

* MATH 12001 is a prerequisite for MATH 12002 and should be bypassed by students with sufficient background.
* **CHEM 30284 may be substituted for the second organic chemistry course requirement with approval of the major advisor.

*** A total of not more than 6 credit hours of any combination of BSCI 40099, 40191, 40192, 40193 or 40196 may be used toward fulfillment of the elective options; of these, no more than 4 credit hours may be S/U graded.

---

**THREE-PLUS-ONE PROGRAM**

**General Requirements**

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

Students must have a minimum 2.00 GPA 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.

---

**B.S. in Medical Technology**

The medical technology program consists of 89 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 Bachelor of Science in Medical Technology is
I. Years 1-3 ........................................... 89

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>10097 First Year Experience FLASH Point</td>
<td>1</td>
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<tr>
<td>BSCI</td>
<td>10110 Biological Diversity</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>10120 Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>20140 Cell Biology</td>
<td>4</td>
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<tr>
<td></td>
<td>30030 Human Physiology</td>
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</tr>
<tr>
<td></td>
<td>30050 Human Genetics</td>
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<tr>
<td></td>
<td>30171 General Microbiology</td>
<td>4</td>
</tr>
<tr>
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<td>40174 Immunology</td>
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<td>30284 Introductory Biological Chemistry</td>
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<td>30360 Aqueous Descriptive Inorganic Chemistry</td>
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<td>CS</td>
<td>10061 Introduction to Computer Programming</td>
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<td>ENG</td>
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<tr>
<td>MATH</td>
<td>12001 Algebra and Trigonometry</td>
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<tr>
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<td>30011 Basic Probability and Statistics</td>
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<tr>
<td></td>
<td>Humanities and Fine Arts LER</td>
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<td>Social Science LER</td>
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<tr>
<td></td>
<td>Refer to the university and College of Arts and Sciences Liberal Education Requirements and diversity requirements. Note: Students majoring in medical technology are not required to meet the foreign language proficiency requirement.</td>
<td></td>
</tr>
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II. Professional Study (Year 4) ........................................... 32

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>CLS</td>
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<td>49011 Clinical Microbiology: Applications</td>
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<td></td>
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<td>49013 Clinical Immunology: Applications</td>
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<td></td>
<td>49014 Clinical Mycology: Theory and Applications</td>
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<tr>
<td></td>
<td>49015 Clinical Parasitology: Theory and Applications</td>
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<td>49021 Clinical Chemistry: Applications</td>
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<td>49022 Urinalysis: Theory</td>
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<td>49030 Immunohematology: Theory</td>
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<td>49031 Immunohematology: Applications</td>
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<td>49032 Coagulation: Theory and Applications</td>
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<td>49033 Clinical Hematology: Theory</td>
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<td>49034 Clinical Hematology: Applications</td>
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<tr>
<td></td>
<td>49040 Topics in Lab Management</td>
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</table>

TOTAL 121

PRE-MEDICAL PROGRAMS

Program Requirements

Students pursuing a pre-medical program must complete all of the General Requirements for the degree elected. They must also complete 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 pre-medical 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 pre-medical program. Students who elect to design their own Bachelor of General Studies (B.G.S.) degree must include the appropriate pre-medical program within their degree program.

Students pursuing a B.G.S. or a primary major in a non-science field should also seek advice from the pre-medical advisors in the Departments of Biological Sciences and Chemistry. Pre-medical program requirements are given below, along with recommended coursework that may be taken as elective coursework or as part of a primary major.
## Pre-dentistry

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tr>
<td>BSCI 10120</td>
<td>Biological Foundations</td>
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<tr>
<td>20140</td>
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<tr>
<td>30476</td>
<td>Organic Chemistry Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>MATH 12001</td>
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<tr>
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<td>CHEM 10061</td>
<td>General Chemistry II (4)</td>
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<td></td>
</tr>
<tr>
<td>10063</td>
<td>General Chemistry Laboratory II (1)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>CHEM 10960</td>
<td>Honors General Chemistry (5)</td>
</tr>
<tr>
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<td>Honors General Chemistry (5)</td>
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<td>Organic Chemistry I (3)</td>
<td></td>
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<tr>
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<td>or</td>
<td>13002</td>
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<td>or</td>
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<td>BSCI 30156</td>
<td>Elements of Genetics (3)</td>
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<tr>
<td>30171</td>
<td>General Microbiology (4)</td>
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<td>30518</td>
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<td>30519</td>
<td>Vertebrate Embryology and Developmental Anatomy (4)</td>
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</tr>
<tr>
<td>40430</td>
<td>General Physiology (4)</td>
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</tr>
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</table>

**TOTAL** 47-48

Some dental schools may also require the following strongly recommended courses: CHEM 30101, 30102, 30103, 30284, 30360, MATH 12002. Distributive requirements in the social sciences should be taken in the behavioral science areas (sociology and psychology).

## Pre-medicine, Pre-osteopathy, Pre-veterinary Medicine

See Pages 189-191 for the general requirements (including LER, diversity and writing-intensive requirements) for the B.S. program in the College of Arts and Sciences.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BSCI 10120</td>
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<td>4</td>
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<td>20140</td>
<td>Cell Biology</td>
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<td>CHEM 30475</td>
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<tr>
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<tr>
<td>BSCI 30156</td>
<td>Elements of Genetics (3)</td>
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<td>General Microbiology (4)</td>
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<tr>
<td>30518</td>
<td>Vertebrate Anatomy (4)</td>
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<tr>
<td>30519</td>
<td>Vertebrate Embryology and Developmental Anatomy (4)</td>
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<tr>
<td>40430</td>
<td>General Physiology (4)</td>
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<tr>
<td>Choose from the following:</td>
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<tr>
<td>CHEM 20481</td>
<td>Basic Organic Chemistry I (4)</td>
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<tr>
<td>or</td>
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<td>or</td>
<td>23101</td>
<td>General University Physics I (5)</td>
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<tr>
<td>or</td>
<td>23102</td>
<td>General University Physics II (5)</td>
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</table>

**TOTAL** 48-49

* 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 pre-med 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 Chemistry, 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 30011 Basic Probability and Statistics, is recommended.

Bachelor of General Studies

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

Students pursuing the B.G.S. must complete the university’s Liberal Education Requirements (LER) and diversity and writing-intensive course requirements as described on Pages 85-95 of this Catalog.

1. Minimum 3 semester credit hours in mathematics, logic or computer science; and (2) minimum one laboratory science within the 6-credit-hour basic sciences LER category. 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 LER 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 Page 169 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 credit hours in any one department may be counted toward the 121 credit hours required for graduation. When two or more credit hours are required for a course in another department, these credit hours may be counted separately.

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

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 to the College of Arts and Sciences. Students should begin the process for evaluation and program review at or near the time they achieve junior standing. The formal application must be submitted by application deadlines prior to the term before students begin the last 30 credit hours of academic work. July 1 is the application deadline for program approval for the fall term; November 1 is the application deadline for program approval for the spring term; and April 1 is the application deadline for program approval for the summer term.

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

1. Visit the college office, 105 Bowman Hall, for an initial conference with a B.G.S. advisor. This conference may include or be followed by an evaluation of course credit and further advising as appropriate. Students may be required to produce evidence of consultation with the Office of Career Services in order to develop an appropriate course plan to meet educational and/or career objectives.

2. The following application steps must be completed: (1) application form, including date of expected graduation; (2) program rationale; and (3) proposed program plan, to the College of Arts and Sciences, requesting admission to the B.G.S. degree program. The rationale should state the interdisciplinary focus of the program design; reasons for seeking the degree; expectations concerning the usefulness of the degree for employment or for further education; acknowledgment of the nontraditional nature of the degree; recognition that the degree falls outside the pattern of standard degrees; and a statement declaring full responsibility for one’s B.G.S. program.
Submit a proposed program plan of study, consisting of minimum three academic departments, of which minimum one must be housed in the College of Arts and Sciences (e.g., history, theatre and sociology) from which courses will be selected. Maximum 30 credit hours from the College of Business Administration may be counted toward stated degree requirements. The program plan will provide a formula of academic departments from which courses are selected to meet remaining requirements (e.g., 9 credit hours history + 6 credit hours theatre + 12 credit hours sociology + 3 credit hours electives). The plan must include remaining Liberal Education Requirements (LER) and diversity and writing-intensive course requirements. 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. A maximum of 6 credit hours of electives—courses to meet hourly totals but not bound by an academic department classification—may be permitted as part of the program plan formula. Not every course is suitable for the B.G.S. program. The B.G.S. advisor will inform students which courses are not available.

However, regardless of remaining total and upper-division requirements, the program plan MUST include a minimum of 12 upper-division semester credit hours and a minimum total of 30 semester credit hours.

Courses taken as part of the B.G.S. program plan are excluded from the Pass/Fail grading option.

3. When the proposed program of study and rationale 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 advisors in the college office and with faculty advisors in the departments where the student plans to concentrate coursework, as well as with advisors in Career Services to research potential educational and career goals. Extensive advising is especially important for students who plan to pursue advanced studies after completing the B.G.S. degree.

Students pursuing the B.G.S. degree are officially advised in the college office. All decisions regarding students’ program plans are made in the college office, including approval of any alteration in the departmental formulas provided in the original program plan.

All changes must be requested in writing at least six weeks prior to course registration and must include a revised program rationale.

Not every course is suitable for the B.G.S. program. The B.G.S. advisor will inform students which courses are not available.

SIX-YEAR MEDICAL PROGRAM

B.S./M.D. in Integrated Life Sciences

Northeastern Ohio Universities College of Medicine

The Northeastern Ohio Universities College of Medicine (NEOUCOM) 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. The first class graduated 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 summer 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 pre-medical 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 INTEGRATED LIFE SCIENCES)

I. Year 1

Summer 1 ....................................................... 13
US 10097 First Year Experience FLASH Point ............ 1
PSYC 11762 General Psychology ................................. 3
SOC 22100 Sociological Analysis ................................. 3
Humanities courses or 2 electives .............................. 6

Fall 1 ............................................................... 19
BSCI 10120 Biological Foundations .............................. 4
CHEM 10960 Honors General Chemistry I ..................... 5
HONR 10197 Freshman Colloquium I ............................ 4
ILS 21091 Integrated Life Sciences Seminar I ............... 2
MATH 12021 Calculus for Life Sciences ........................ 4
Spring 1 ............................................................. 18
BSCI 20140 Cell Biology ............................................. 4
CHEM 10961 Honors General Chemistry II .................... 5
HONR 10297 Freshman Colloquium II .......................... 4
ILS 21092 Integrated Life Sciences Seminar II .............. 2
SOC 42563 Sociology of Health and Health Care .............. 3

II. Year 2

Summer 2 .......................................................... 14
BSCI 30156 Elements of Genetics ............................ 3
ILS 32592 Sociological Perspectives in Public Health ....... 3
42591 Medical Sociology Research Skills ........................ 2
42592 Medical Sociology Practicum ............................ 3
Humanities courses or electives ................................ 3

Fall 2 ............................................................... 18
BSCI 30171 General Microbiology ............................... 4
CHEM 30475 Organic Chemistry Laboratory I ............... 1
30481 Organic Chemistry I ....................................... 3
ILS 32091 Integrated Life Sciences Seminar III ............ 2
MATH 12022 Probability and Statistics for Life Sciences .... 3
Choose from the following: ...................................... 5
PHY 13001 General College Physics I (4)
13021 General College Physics Laboratory I (1)
or
23101 General University Physics I (5)
Spring 2 ............................................................. 18
BSCI 30519 Vertebrate Embryology and Developmental
Anatomy .............................................................. 4
CHEM 30482 Organic Chemistry II ............................. 3
CHEM 40245 Biochemical Foundations of Medicine ........... 4
ILS 32092 Integrated Life Sciences Seminar IV ............. 2
Choose from the following: ...................................... 5
PHY 13001 General College Physics II (4)
23101 General University Physics II (5)

III. Year 3 ................................................................. 12
ILS 30392 Psychological Helping Skills for Medicine ....... 3
40392 Medical Psychology Practicum ............................ 3
PSYC 40111 Abnormal Psychology ............................. 3
Humanities courses or electives ............................... 3

TOTAL 112

Humanities and Electives

THE HUMANITIES COMPONENT (18):
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: 18 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. Fine Arts (3)
Students are to take at least one approved course from the list of LER Fine Arts courses.

II. History, Literature, Philosophy (12)
Students are to take at least two courses (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

III. Humanities Elective (3)
Students are to take one additional course in Humanities, Fine Arts or Foreign Language.

IV. 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 18 semester hours minimum of the humanities component requirement 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...
State curriculum but not toward the 18-hour requirement of the humanities component of the ILS program.

Diversity
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 89-91.)

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, P.O. Box 95, Rootstown, OH 44072-0095, 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 each year and will recommend students for promotion and formal admission to Phase II 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 PROGRAM
The following interdisciplinary major degree program is offered by the College of Arts and Sciences in cooperation with the other colleges and schools at Kent State University.

<table>
<thead>
<tr>
<th>B.S. in Biotechnology</th>
</tr>
</thead>
<tbody>
<tr>
<td>The interdisciplinary Bachelor of Science in Biotechnology curriculum at Kent State University is designed to provide strong academic foundations in biological sciences and chemistry, as well as a solid understanding of biotechnology applications. The curriculum includes practical, real world research experience, obtained through individual investigation and/or an internship in an academic research laboratory or biotechnology company. The choices for the focus of the individual investigation/internship can include: biomedical sciences, pharmaceutical research, agriculture, health care, industrial processing and environmental management depending on students’ interest and availability of positions.</td>
</tr>
</tbody>
</table>

| I. General College or University Requirements | 1 |
| US 10097 First Year Experience FLASH Point | 1 |

| II. Liberal Education Requirements | 42 |
| A complete list of Liberal Education Requirements (LER) courses is on Pages 85-87. |

| Composition |
| ENG 11011 College Writing I | 3 |
| 21011 College Writing II | 3 |

| Mathematics and Critical Reasoning |
| CS 10051 Introduction to Computer Science | 4 |

| Humanities and Fine Arts |
| PHIL * 21001 Introduction to Ethics | 3 |

| Social Sciences | 6 |
| Must be selected from two curricular areas. |

| Basic Sciences |
| CHEM 10060 General Chemistry I | 4 |
| 10062 General Chemistry I Lab | 1 |
| PHY 13001 General College Physics I | 4 |
| PHY 13021 General College Physics Lab | 1 |

| Additional Courses |
| Must be selected from two categories. |
| BSCI 10120 Biological Foundations | 4 |
| Choose from the following: | 3 |
| LER course from above categories (3) |
| PHIL 11009 Principles of Thinking | 3 |
| COMM 15000 Introduction to Human Communication | 3 |

| Diversity Requirement |
| Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. The global focus course is fulfilled in this major with the LER humanities PHIL 21001. A complete list of diversity courses is on Pages 89-91. |
### Writing-Intensive Requirement

Students must complete a one-course writing-intensive requirement and earn minimum C (2.00) grade. This requirement is fulfilled in this major with CHEM 40251.

### III. Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Foreign language proficiency through Elementary II</td>
<td>8</td>
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<tr>
<td>BSCI 20140 Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>30156 Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>30171 General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>40158 Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BTEC 10210 Introduction to Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>40191 Seminar: Recent Developments in Biotechnology 1</td>
<td>3</td>
</tr>
<tr>
<td>40210 Case Studies in Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>40220 Bioinformatics</td>
<td>2</td>
</tr>
<tr>
<td>BUS 10123 Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 10061 General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>10063 General Chemistry Laboratory II</td>
<td>1</td>
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<tr>
<td>20481 Basic Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>30284 Introductory Biological Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>40248 Advanced Biological Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>** 40251 Advanced Biological Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td><strong>Choose from the following</strong></td>
<td>7-8</td>
</tr>
<tr>
<td>MATH 12002 Analytic Geometry and Calculus I (5)</td>
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</tr>
<tr>
<td>30011 Basic Probability and Statistics (3)</td>
<td></td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MATH 12021 Calculus for Life Sciences (4)</td>
<td></td>
</tr>
<tr>
<td>12022 Probability and Statistics for Life Sciences (3)</td>
<td></td>
</tr>
<tr>
<td>PHIL 30015 Medicine and Morality</td>
<td>3</td>
</tr>
<tr>
<td><strong>Choose from the following</strong></td>
<td>6-9</td>
</tr>
<tr>
<td>BTEC 40192 Internship in Biotechnology (6-9)</td>
<td></td>
</tr>
<tr>
<td>40196 Individual Investigation in Biotechnology (6-9)</td>
<td></td>
</tr>
<tr>
<td><strong>Approved upper-division electives</strong></td>
<td>9</td>
</tr>
<tr>
<td>BSCI 40143 Eukaryotic Cell Biology (3)</td>
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</tr>
<tr>
<td>40164 Molecular Systematics and Phylogenetics (4)</td>
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<tr>
<td>40174 Immunology (3)</td>
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<tr>
<td>40556 Vertebrate Anatomy (4)</td>
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<tr>
<td>CHEM 30101 Quantitative Analysis (2)</td>
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<tr>
<td>30102 Quantitative Analysis Laboratory (1)</td>
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<tr>
<td>30360 Aqueous Descriptive Inorganic Chemistry (2)</td>
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<tr>
<td>30475 Organic Chemistry Laboratory (1)</td>
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<tr>
<td>40567 Basic Concepts in Physical Chemistry (4)</td>
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<tr>
<td>PSYC 41363 Biopsychology (3)</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>121-124</strong></td>
</tr>
</tbody>
</table>

*Course fulfill diversity requirement.
**Course fulfills writing-intensive requirement.
***Registration for the internship requires approval of the program director and is dependent on the availability of internship sites.
****Electives may be chosen from the list or approved by program director.

### 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.

Students majoring in a language cannot minor in the business language minor, e.g., a Spanish major cannot minor in business Spanish.

Special topics courses and colloquia often are 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.

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

*See Pages 163-164 for lists of departmental and interdisciplinary minors.
### African Studies Minor

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 Pan-African Studies. 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 38240</td>
<td>Culture and Personality</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 38250</td>
<td>Religion: A Search for Meaning</td>
<td>3</td>
</tr>
<tr>
<td>48410</td>
<td>Prehistory: Eurasia and Africa</td>
<td>3</td>
</tr>
<tr>
<td>48230</td>
<td>Socio-Cultural Change</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 42025</td>
<td>Art of West Africa</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 42026</td>
<td>Art of Nigeria</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 42027</td>
<td>Art of Central Africa</td>
<td>3</td>
</tr>
<tr>
<td>ECON 32075</td>
<td>Introduction to International Trade</td>
<td>3</td>
</tr>
<tr>
<td>42075</td>
<td>International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>42076</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 37040</td>
<td>Geography of Africa</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31130</td>
<td>History of African Civilization</td>
<td>3</td>
</tr>
<tr>
<td>41131</td>
<td>History of Africa to 1880</td>
<td>3</td>
</tr>
<tr>
<td>41132</td>
<td>History of Africa: 1880-Present</td>
<td>3</td>
</tr>
<tr>
<td>41135</td>
<td>History of West Africa</td>
<td>3</td>
</tr>
<tr>
<td>MUS 42111</td>
<td>African Music and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>PAS 10101</td>
<td>Elementary Kiswahili I</td>
<td>4</td>
</tr>
<tr>
<td>10102</td>
<td>Elementary Kiswahili II</td>
<td>4</td>
</tr>
<tr>
<td>12301</td>
<td>Elementary Yoruba I</td>
<td>4</td>
</tr>
<tr>
<td>13202</td>
<td>Elementary Yoruba II</td>
<td>4</td>
</tr>
<tr>
<td>22200</td>
<td>Introduction to African Arts</td>
<td>3</td>
</tr>
<tr>
<td>23201</td>
<td>Intermediate Yoruba I</td>
<td>3</td>
</tr>
<tr>
<td>23202</td>
<td>Intermediate Yoruba II</td>
<td>3</td>
</tr>
<tr>
<td>42095</td>
<td>Special Topics in the Literature of Pan-Africa</td>
<td>3</td>
</tr>
<tr>
<td>POL 30540</td>
<td>African Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 18

Minimum cumulative 2.00 GPA required for graduation.

### American Sign Language Minor

**Prerequisites**

- ASL 19201 Elementary American Sign Language I (4)
- 19202 Elementary American Sign Language II (4)
- 29201 Intermediate American Sign Language I (3)
- 29202 Intermediate American Sign Language II (3)

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASL 39201</td>
<td>Advanced American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>39202</td>
<td>Advanced American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>49092</td>
<td>Practicum: Deaf Residential School</td>
<td>1</td>
</tr>
<tr>
<td>49101</td>
<td>Deaf Culture and Community</td>
<td>3</td>
</tr>
<tr>
<td>49105</td>
<td>Signed English and Manually Coded English Systems</td>
<td>3</td>
</tr>
<tr>
<td>49108</td>
<td>American Sign Language Linguistics and Usage</td>
<td>3</td>
</tr>
<tr>
<td>49309</td>
<td>Introduction to Deaf Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 19

Minimum cumulative 2.00 GPA required for graduation.

### American Studies Minor

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.

**American Literature**

Choose from the following:

- 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)

**Total:** 18

Minimum cumulative 2.00 GPA required for graduation.

**American History**

Choose from the following:

- HIST 31070 History of American Business Enterprise (3)
- 41056 History of Colonial America: 1492-1714 (3)
- 41057 Eighteenth-Century America: 1714-1789 (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)

Pan-African Studies
Choose from the following: .............................. 3
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)

The Arts or Methods
Choose two courses from one group: ...................... 6

The Arts
ARTH 42056 American Art: 1607-1860 (3)
42057 American Art and Architecture: 1860-1940 (3)
42058 History of Photography (3)
JMC 40008 History of American Mass Communication (3)
MUS 42131 America’s Music (3)
42161 History of Jazz (3)
or

Methods
ANTH* 18210 Introduction to Cultural Anthropology (3)
48270 Native Peoples of North America (3)
GEOG*17064 Geography of the United States and Canada (3)
42064 Historical Geography of the United States and Canada (3)
PHIL**31010 Twentieth-Century Philosophy (3)
  ** 31020 American Philosophy (3)
41060 Pragmatism (3)
POL 40112 Politics and the Mass Media (3)
40116 Political Opinion and Political Behavior (3)
40830 U.S. Foreign Policy (3)

TOTAL 27

Ancient, Medieval and Renaissance Studies Minor
(Susanna Fein and Isolde Thyret, Coordinators, 113G Satterfield and 305 Bowman)

The program in ancient, medieval and Renaissance studies offers a culturally comparative minor in which the distance of time lends profound diversity from present experience. The program allows students to explore the origins and development of Western culture as defined across continents, religions and civilizations, through a range of disciplines (anthropology, architecture, art, fashion, history, language, literature, music, philosophy and theatre). The program’s flexibility encourages students to pursue specific interests, for example, early religion, high medieval culture, classical influences upon the Renaissance or Byzantine culture.

Students earning a minor in AMRS take a total of 21 semester hours—6 lower-division credit hours and 15-16 upper-division credit hours—in at least three disciplines. No more than 6 credit hours counted toward the major may also be counted toward the minor. There is no specific language requirement, but students are encouraged to select a language that could be used to satisfy Liberal Education Requirements (LER) and also to support their AMRS minor coursework. In selecting courses for the minor, students are responsible for meeting the prerequisites set by individual disciplines.

Lower-Division Electives ................................. 6
Must be selected from two disciplines.
ANTH 18210 Introduction to Cultural Anthropology (3)
48270 Native Peoples of North America (3)
ARCH 10011 Survey of Architectural History I (3)
10012 Survey of Architectural History II (3)
18420 Introduction to Archaeology (3)
ENG 21054 Introduction to Shakespeare (3)
21071 Great Books I (3)
25001 Literature in English I (3)
HIST 11050 History of Civilization I (or HONR 13197) (3)
HONR 13197 Colloquium: The History of Civilization I (or HIST 11050) (3)
MUS 3211 Music History to 1750 (3)
PHIL 21020 Comparative Religious Thought I (3)
### Upper-Division Electives  
15-16 Must be selected from three or more disciplines.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH</td>
<td>Religion: A Search for Meaning (3)</td>
</tr>
<tr>
<td>38250</td>
<td>Prehistory: Urbanism (3)</td>
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<td>38420</td>
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<tr>
<td>ARCH</td>
<td>Renaissance Architecture (3)</td>
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<tr>
<td>45210</td>
<td>Baroque Architecture (3)</td>
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<tr>
<td>45211</td>
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<tr>
<td>ARTH</td>
<td>Greek Archaeology and Art (or CLAS 41401) (3)</td>
</tr>
<tr>
<td>42031</td>
<td>Roman Archaeology and Art (or CLAS 41402) (3)</td>
</tr>
<tr>
<td>42032</td>
<td>Medieval Art (3)</td>
</tr>
<tr>
<td>42036</td>
<td>Gothic Art, 12th to 15th Centuries (3)</td>
</tr>
<tr>
<td>42041</td>
<td>Italian Renaissance Art (3)</td>
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<tr>
<td>42042</td>
<td>Northern Renaissance Art (3)</td>
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<tr>
<td>42046</td>
<td>Baroque Art of the 17th Century (3)</td>
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<td>42095</td>
<td>Special Topics: High Renaissance Art (3)</td>
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<td>CLAS</td>
<td>Roman History (or HIST 41006) (3)</td>
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<td>41006</td>
<td>Colloquium in Classics (3)</td>
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<td>41097</td>
<td>Classical Mythology (3)</td>
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<td>41301</td>
<td>Greek Archaeology and Art (or ARTH 42031) (3)</td>
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<tr>
<td>41401</td>
<td>Roman Archaeology and Art (or ARTH 42032) (3)</td>
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<td>41402</td>
<td>Greek Literature in Translation (3)</td>
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<tr>
<td>ENG</td>
<td>History of the English Language (3)</td>
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<tr>
<td>31002</td>
<td>Medieval English Literature (3)</td>
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<tr>
<td>34001</td>
<td>British Literature from 1500 to 1660 (3)</td>
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<tr>
<td>34055</td>
<td>Shakespeare (3)</td>
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<tr>
<td>34065</td>
<td>Chaucer (3)</td>
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<tr>
<td>34095</td>
<td>Special Topics: John Milton (3)</td>
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<td>35201</td>
<td>The Bible as Literature (3)</td>
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<tr>
<td>37001</td>
<td>Classical Rhetoric (3)</td>
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<td>39995</td>
<td>Special Topics: Arthurian Romance (3)</td>
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<tr>
<td>GER</td>
<td>History of German Literature (4)</td>
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<td>German Literature (4)</td>
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<td>Advanced Prose Authors (3)</td>
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<td>34350</td>
<td>New Testament in Greek (3)</td>
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<tr>
<td>34370</td>
<td>Plato: Apology and Phaedo (3)</td>
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<td>34371</td>
<td>Homer (3)</td>
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<td>44352</td>
<td>Greek Drama (3)</td>
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<td>HIST</td>
<td>History of Byzantine Civilization (3)</td>
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<td>31009</td>
<td>History of Byzantine Civilization (3)</td>
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<tr>
<td>31027</td>
<td>History of England to 1688 (3)</td>
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<tr>
<td>31127</td>
<td>Ancient and Early Medieval Jewish History (3)</td>
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<tr>
<td>31128</td>
<td>Late Medieval and Modern Jewish History (3)</td>
</tr>
<tr>
<td>41010</td>
<td>The Early Middle Ages (3)</td>
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<tr>
<td>41011</td>
<td>The High Middle Ages (3)</td>
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<tr>
<td>41014</td>
<td>Europe in the Renaissance (3)</td>
</tr>
<tr>
<td>41016</td>
<td>The Protestant and Catholic Reformations (3)</td>
</tr>
<tr>
<td>41017</td>
<td>Seventeenth-Century Europe (3)</td>
</tr>
<tr>
<td>41026</td>
<td>Tudor England 1485-1603 (3)</td>
</tr>
<tr>
<td>41044</td>
<td>Imperial Russia, 1689-1917 (3)</td>
</tr>
<tr>
<td>41097</td>
<td>Colloquium: Saints, Monks and the Medieval Community (3)</td>
</tr>
<tr>
<td>42397</td>
<td>Colloquium: Women in Europe from Antiquity to the Renaissance (3)</td>
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<td>43697</td>
<td>Colloquium: Tudor and Stuart England (3)</td>
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<tr>
<td>LAT</td>
<td>Cicero (3)</td>
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<td>36170</td>
<td>Vergil (3)</td>
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<td>46095</td>
<td>Selected Topics in Latin (3)</td>
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<tr>
<td>46351</td>
<td>Latin Comedy (3)</td>
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<td>46352</td>
<td>Elegaic Poets (3)</td>
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<td>46372</td>
<td>Lyric Poetry (3)</td>
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<td>46373</td>
<td>Advanced Prose Authors (3)</td>
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<tr>
<td>46374</td>
<td>Juvenal’s Satires and Martial’s Epigrams (3)</td>
</tr>
<tr>
<td>46375</td>
<td>Lucretius (3)</td>
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<tr>
<td>MUS</td>
<td>Special Topics: Madrigal Music (3)</td>
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<tr>
<td>40295</td>
<td>Special Topics: Development of Polyphonic Mass</td>
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<tr>
<td>40295</td>
<td>Special Topics: The Mass from Machaut to Palestrina</td>
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<tr>
<td>PHIL</td>
<td>Ancient Greek Philosophy (3)</td>
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<td>31001</td>
<td>Medieval Philosophy (3)</td>
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<tr>
<td>31065</td>
<td>Philosophies of Religious Experience (3)</td>
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<tr>
<td>41065</td>
<td>Plato (3)</td>
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<td>Aristotle (3)</td>
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<td>SPAN</td>
<td>Early Spanish Literature (3)</td>
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<td>38330</td>
<td>Medieval Spanish Poetry (3)</td>
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<tr>
<td>48350</td>
<td>Don Quixote (3)</td>
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<tr>
<td>48351</td>
<td>Minor Works of Cervantes (3)</td>
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<td>48352</td>
<td>Medieval Spanish Prose (3)</td>
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<td>THEA</td>
<td>History of Theatre and Drama I (3)</td>
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<tr>
<td>31112</td>
<td>History of Theatre and Drama I (3)</td>
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<td>TOTAL</td>
<td>21-22</td>
</tr>
</tbody>
</table>

Appropriate specialized offerings may be substituted above as available with approval of the coordinator(s).

Minimum cumulative 2.00 GPA required for graduation.
Choose from the following: ........................................... 3  
ANTH 38240 Culture and Personality (3)  
48214 Politics of Culture (3)  
48250 Culture and Curing (3)  
48260 Culture Conflict (3)  
48270 Native Peoples of North America (3)  
48630 Pacific Island Cultures (3)  

TOTAL 21  

Minimum cumulative 2.00 GPA required for graduation.

Applied Conflict Management Minor

CACM 11001 Introduction to Conflict Management .......... 3  
21002 Gender, Power and Conflict ............................ 3  
31003 Nonviolence: Theory and Practice ...................... 3  
31010 Conflict Theory ......................................... 3  
38080 Mediation: Theory and Training ....................... 3  

Choose from the following: ........................................ 6  
CACM 21010 Cross-Cultural Conflict Management (3)  
32020 Strategic Planning (3)  
33030 Conflict in the Workplace (3)  
34040 Negotiation (3)  
35050 Public Sector Dispute Resolution (3)  
35092 Internship in Conflict Management (3)  
35095 Special Topics (3)  
41010 Reconciliation vs. Revenge (3)  

TOTAL 21  

Minimum cumulative 2.00 GPA required for graduation.

Applied Mathematics Minor

Prerequisites
MATH*12001 Algebra and Trigonometry (4)  
Choose one course from the following:  
CS ** 10051 Introduction to Computer Science (4)  
** 10061 Introduction to Computer Programming (3)  

Minor Requirements .............................................. 19  
MATH 12002 Analytic Geometry and Calculus I .............. 5  
12003 Analytic Geometry and Calculus II ...................... 5  
21001 Linear Algebra with Applications ........................ 3  
22005 Analytic Geometry and Calculus III ...................... 3  
32044 Introduction to Ordinary Differential Equations .... 3  

Elective Courses .................................................. 6  
Selected in consultation with the student’s minor advisor.  
MATH*** 23022 Discrete Structures for Computer Science (3)  
*** 31011 Discrete Mathematics (3)  
40011 Introduction to Probability Theory and Applications (3)  
40012 Introduction 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 (3)  
42048 Introduction to Complex Variables (3)  
42091 Seminar: Modeling Projects (3)  
42201 Introduction to Numerical Computing I (3)  
42202 Introduction to Numerical Computing II (3)  

TOTAL 25  

* MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background.  
** Students planning to take CS courses at the 20000-level or above must take CS 10051.  
*** Credit for both MATH 23022 and 31011 is not permitted. Students planning to take CS courses at the 30000-level or above must take MATH 23022.  

Minimum cumulative 2.00 GPA required for graduation.

Asian Studies Minor

(Dennis Hart [Political Science], James A. Tyner [Geography], co-coordinators of Asian studies)  
The program requires successful completion of a minimum 16 credit 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.  

Nonlanguage courses ........................................... 16  
Must be selected from three disciplines.  
MATH* 38096 Individual Investigation in Anthropology (3)  
ARTH 42022 The Arts of China (3)  
42023 The Arts of Japan (3)  
GEOG 37079 Geography of South Asia (3)  
HIST 31112 Chinese Civilization (3)  

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**Language Courses**

- CHIN 15101 Elementary Chinese I (4)
- 15102 Elementary Chinese II (4)
- 25201 Intermediate Chinese I (3)
- 25202 Intermediate Chinese II (3)
- HRTG 10101 Elementary I (Variable Language) (4)
- 10102 Elementary II (Variable Language) (4)
- 20201 Intermediate I (Variable Language) (3)
- 20202 Intermediate II (Variable Language) (3)
- JAPN 15101 Elementary Japanese I (4)
- 15102 Elementary Japanese II (4)
- 25201 Intermediate Japanese I (3)
- 25202 Intermediate Japanese II (3)

**TOTAL 16-24**

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

Minimum cumulative 2.00 GPA required for graduation.

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**Biological Sciences Minor**

**Prerequisites**

- CHEM 10060 General Chemistry I (4)
- 10061 General Chemistry II (4)
- 10062 General Chemistry Laboratory I (1)
- 10063 General Chemistry Laboratory II (1)
- MATH 12001 Algebra and Trigonometry (4)

**Core Requirements**

- BSCI 10110 Biological Diversity ............. 4
- 10120 Biological Foundations ............... 4
- 30156 Elements of Genetics ................ 3
- 40163 Organic Evolution .................... 3

**Biology Electives**

Select from any combination of BSCI courses. Visit www.kent.edu/biology for a complete list of BSCI courses.

Students should consult with a biology advisor to determine the most appropriate courses given their disciplinary interests and career aspirations.

**TOTAL 21**

Minimum cumulative 2.00 GPA required for graduation.

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**British Studies Minor**

**British Literature**

Must be selected from minimum two literary periods.

Choose from the following:

- ENG 31002 History of the English Language (3)
- 34001 Medieval English Literature (3)
- 34002 British Literature, 1500-1660 (3)
- 34003 British Literature, 1660-1800 (3)
- 34004 British Literature, 1800-1900 (3)
- 34005 British and Irish Literature, 1900-Present (3)
- 34011 World Literature in English (3)
- 34055 Shakespeare (3)
- 34065 Chaucer (3)
- 34095 Special Topics: Major Author Studies (British) (3)

**British History**

Choose from 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**

Choose from the following:

- ARTH 42036 Medieval Art (3)
- 42042 Northern Renaissance Art (3)
- PHIL 31004 British Empiricism (3)
- 41077 British and American Thought (3)

**TOTAL 22**

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

Minimum cumulative 2.00 GPA required for graduation.
### Business French Minor

**Prerequisites**

Prerequisites can be waived by demonstrated language proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FR</td>
<td>13201</td>
<td>Elementary French I (4)</td>
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<td>13202</td>
<td>Elementary French II (4)</td>
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**Minor Requirements**

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<th>Code</th>
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<td>33212</td>
<td>French Composition</td>
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<td>33215</td>
<td>French Phonetics and Diction</td>
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<td>* 33240</td>
<td>Conversation for Business and</td>
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<td>Special Purposes: French</td>
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<td></td>
<td>33421</td>
<td>French Civilization</td>
<td>3</td>
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<td></td>
<td>* 43240</td>
<td>Business and Special Texts: French</td>
<td>3</td>
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<tr>
<td>MCLS</td>
<td>40420</td>
<td>Foreign Language and Culture Studies</td>
<td>3</td>
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</table>

**TOTAL** 21

FR 33240 is offered only in the fall of even-numbered years, and FR 43240 is offered only in the spring of odd-numbered years. Students should consult with the department about exact scheduling.

Minimum cumulative 2.00 GPA required for graduation.

### Business Russian Minor

**Prerequisites**

Prerequisites can be waived by demonstrated language proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<td>12202</td>
<td>Elementary Russian II (4)</td>
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<td></td>
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<td></td>
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<tr>
<td></td>
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<td>Intermediate Russian II (3)</td>
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**Minor Requirements**

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<td>RUSS</td>
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<td>Intensive Russian Grammar</td>
<td>3</td>
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<td>32211</td>
<td>Russian Composition and Conversation</td>
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<tr>
<td></td>
<td>32215</td>
<td>Russian Phonetics and Diction</td>
<td>3</td>
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<td></td>
<td>* 32240</td>
<td>Conversation for Business and</td>
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<td>Special Purposes: Russian</td>
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<tr>
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<td>32421</td>
<td>Russian Civilization</td>
<td>3</td>
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<tr>
<td></td>
<td>* 42240</td>
<td>Business and Special Texts: Russian</td>
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**TOTAL** 21

RUSS 32240 is offered only in the fall of even-numbered years, and RUSS 42240 is offered only in the spring of odd-numbered years. Students should consult with the department about exact scheduling.

Minimum cumulative 2.00 GPA required for graduation.

### Business Spanish Minor

**Prerequisites**

Prerequisites can be waived by demonstrated language proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Title</th>
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<td>Elementary Spanish I (4)</td>
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<td>18202</td>
<td>Elementary Spanish II (4)</td>
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<td></td>
<td>28201</td>
<td>Intermediate Spanish I (3)</td>
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**Minor Requirements**

<table>
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<th>Course</th>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>MCLS</td>
<td>40420</td>
<td>Foreign Language and Culture Studies</td>
<td>3</td>
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<tr>
<td>SPAN</td>
<td>38211</td>
<td>Spanish Grammar and Composition</td>
<td>3</td>
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<tr>
<td></td>
<td>38213</td>
<td>Spanish Reading and Conversation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>38215</td>
<td>Spanish Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>* 38240</td>
<td>Conversation for Business &amp;</td>
<td>3</td>
</tr>
<tr>
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<td></td>
<td>Special Purposes: Spanish</td>
<td></td>
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<tr>
<td></td>
<td>* 48240</td>
<td>Business and Special Texts: Spanish</td>
<td>3</td>
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<td><strong>Choose from the following:</strong></td>
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<tr>
<td>SPAN</td>
<td>38421</td>
<td>Civilization of Spain</td>
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<td>38424</td>
<td>Culture and Civilization of Latin America</td>
<td>3</td>
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</table>

**TOTAL** 21

Minimum cumulative 2.00 GPA required for graduation.
College of Arts and Sciences

*SPAN 38240 is offered only in the fall of even-numbered years, and SPAN 48240 is offered only in the spring of odd-numbered years. Students should consult with the department about exact scheduling.

Minimum cumulative 2.00 GPA required for graduation.

Cartography Minor

(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.

Minor Requirements . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 22-27
GEOG 29160 Mapping Our World . . . . . . . . . . . . . . . . . . . . . 3
39161 Introduction to Cartography . . . . . . . . . . . . . . . . . . .3
39162 Introduction to Cartography Lab. . . . . . . . . . . . . . . .1
49165 GeoMapping . . . . . . . . . . . . . . . . . . . . . . . . . . . . .3
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . 6-8
GEOG 49070 Geographic Information Science (3)
49162 Advanced Cartography (3)
49163 Advanced Cartography Laboratory (1)
49198 Research in Cartography and Geographic Information Science (3)
49210 Earth Imagery (3)
49211 Earth Imagery Laboratory (1)
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . 6-9
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)
Electives . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3-8
Electives may be chosen from any of the above courses or from:
GEOG 21062, 22061, 31064; GEOL 21062, 21080; ARCH 45631, 45630; VCD 17000. Other electives may be appropriate but must have prior approval of the program coordinator.

TOTAL 30

Minimum cumulative 2.00 GPA required for graduation.

Chemistry Minor

Minor Requirements: . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 16-18
CHEM 30360 Aqueous Descriptive Inorganic Chemistry . . . . . .2
Choose from the following groups: . . . . . . . . . . . . . . . . . . . . . 10
CHEM 10061 General Chemistry I (4)
CHEM 10062 General Chemistry II (4)
CHEM 10063 General Chemistry Laboratory I (1)
10061 General Chemistry I (4)
10062 General Chemistry II (4)
10063 General Chemistry Laboratory I (1)
10061 General Chemistry I (4)
10062 General Chemistry II (4)
10063 General Chemistry Laboratory I (1)
10061 General Chemistry I (4)
10062 General Chemistry II (4)
10063 General Chemistry Laboratory I (1)
CHEM 10060 Honors General Chemistry (5)
10061 Honors General Chemistry (5)
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . . . 4-6
CHEM 20481 Basic Organic Chemistry I (4)
30481 Organic Chemistry I (3)
30482 Organic Chemistry II (3)

Electives (with minor advisor approval) . . . . . . . . . . . . . . . . . .7-9
CHEM*20482 Basic Organic Chemistry II (2)
30050 Introduction to Materials Chemistry (2)
30101 Quantitative Analysis (2)
30102 Quantitative Analysis Laboratory (1)
30103 Instrumental Analysis (2)
30104 Instrumental Analysis Laboratory (2)
** 30284 Introductory Biological Chemistry (4)
30475 Organic Chemistry Laboratory I (1)
30476 Organic Chemistry Laboratory I (1)
** 40245 Biochemical Foundations of Medicine (4)
** 40247 Principles of Biochemistry (4)
40361 Intermediate Inorganic Chemistry (2)
*** 40555 Elementary Physical Chemistry (3)
40556 Elementary Physical Chemistry (3)
for physics majors taking the chemistry concentration
*** 40567 Basic Concepts of Physical Chemistry (4)
**** 40568 Elementary Physical Chemistry Laboratory (1)

TOTAL 25

*Students who take CHEM 30481 and 30482 cannot take CHEM 20482.
**Well-prepared students may substitute CHEM 40245 or 40247 for CHEM 30284. Students can only take one of these courses.
***Students who take CHEM 40555 can not take CHEM 40567.
****Students may take CHEM 40588 only if they have taken CHEM 40555, 40556 or 40567 as a pre/corequisite.

Minimum cumulative 2.00 GPA required and a 2.00 GPA in chemistry.

Classics Minor

(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.
Greek or Latin Emphasis

Prerequisites
Prerequisites may be waived by demonstrated proficiency.
GRE 14201 Elementary Classical Greek I (4)
14202 Elementary Classical Greek II (4)
or
LAT 16201 Elementary Classical Latin I (4)
16202 Elementary Classical Latin II (4)

Classical Language and Literature Courses . . . . . . . . . . . . .6
GRE 24201 Intermediate Classical Greek I (3)
24202 Intermediate Classical Greek II (3)
or
LAT 26201 Intermediate Latin I (3)
26202 Intermediate Latin II (3)

Classical Culture Courses . . . . . . . . . . . . . . . . . . . . . . . .12
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 Translation (3)
41006 Roman History (or HIST 41006) (3)
HIST 41003 History of Ancient Greece (3)
41006 Roman History (or CLAS 41006) (3)
PHIL 31001 Classical Greek Philosophy (3)
Greek course at the 30000-40000 level (3)
Latin course at the 30000-40000 level (3)

Total 18

Minimum cumulative 2.00 GPA required for graduation.

Climatology Minor

(Scott Sheridan, Coordinator, 410 McGilvrey Hall)

The climatology program aims to provide an overview of the atmospheric sciences and how the climate system works. It also focuses on understanding the role of climate in an increasingly diverse world. Students learn about potential climate change and how to understand and forecast its potential impacts. Students also learn how to apply their knowledge of climate and weather to a variety of interdisciplinary fields, including agriculture, conservation, health, forestry and environmental planning.

GEOG 21062 Physical Geography . . . . . . . . . . . . . . . . . . . .3
31062 Fundamentals of Meteorology . . . . . . . . . . . . . . . . .3
31064 Principles of Climatology . . . . . . . . . . . . . . . . . . . .3
MATH 12002 Analytic Geometry and Calculus I . . . . . . . . . . .5
PHY 13001 General College Physics I . . . . . . . . . . . . . . . . . .4
13021 General College Physics Laboratory I . . . . . . . . . . . .1
Choose from the following: . . . . . . . . . . . . . . . . . . . . . . . . . .6
GEOG 41062 Advanced Physical Geography (3)
41050 Polar and Alpine Environments (3)
41066 Climate Change and Its Impact (3)
Or any other GEOG 40000-level courses, as approved by the coordinator.

Total 25

Minimum cumulative 2.00 GPA required for graduation.

Comparative Literature Minor

(Susanna Fein, 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 11011 College Writing I (3)
21011 College Writing II (3)
Appropriate language courses (14)
or equivalent in established proficiency

Comparative Literature Core . . . . . . . . . . . . . . . . . . . . . . . . . .8
AS 30891 Introductory Seminar in Comparative Literature . . . .4
40897 Colloquium in Comparative Literature . . . . . . . . . . . .4

National Literature . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .6
Choose from one national literature (other than major):
ENG 33001 U.S. Literature to 1865 (3)
33002 U.S. Literature, 1865-1945 (3)
33003 U.S. Literature, 1895-Present (3)
34001 Medieval English Literature (3)
34002 British Literature, 1500-1666 (3)
34003 British Literature, 1660-1800 (3)
34004 British Literature, 1800-1900 (3)
34005 British and Irish Literature, 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 Introduction to French Theatre (3)
33336 Introduction to French Poetry (3)
**College of Arts and Sciences**

33337 Introduction to French Novel (3)  
43366 Studies in 19th-Century French Literature (3)  
43368 20th-Century French Novel (3)  
43370 20th-Century French Theatre (3)  
GER 31303 Introduction to German Literature (3)  
Choose one of the following:  
GER 41331 History of German Literature (4)  
41334 The German Novella (3)  
appropriate "survey" course strongly recommended  
GRE 34350 Advanced Prose Authors (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 36170 Cicero (3)  
36171 Vergil (3)  
46095 Selected Topics in Latin (2-3)  
46351 Latin Comedy (3)  
46352 Elegiac Poets (3)  
46373 Advanced Prose Authors (3)  
46374 Juvenal, Satires; Martial, Epigrams (3)  
46375Lucretius (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)  
Choose one of the following:  
RUSS 32325 Russian Poetry and Folklore (3)  
32350 Russian Prose (3)  
32354 Russian Drama (3)  
42351 Survey of Russian Soviet Literature (4)  
appropriate "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)  

**Literature Electives**  
Electives are chosen from junior and senior (30000- and 40000-level) courses in literature (including courses offered in translation) other than the major from either the English department or the Modern and Classical Language Studies department. Electives may also be chosen from related disciplines such as history, philosophy, art history and music, provided the courses are related and not in the student’s major field; each substitution must be approved by the coordinator for the comparative literature program.  

**TOTAL** 26

Minimum cumulative 2.00 GPA required for graduation.

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**Computer Science Minor**

**Prerequisites**  
CS ** 10051 Introduction to Computer Science (4)  
MATH*** 12001 Algebra and Trigonometry (4)

**Minor Requirements**  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>CS ** 23021 CS I: Programming and Problem Solving</td>
<td>4</td>
</tr>
<tr>
<td>** 23022 Discrete Structures for Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>** 33001 CS II: Data Structures and Abstraction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses**  

Minimum 6 credit hours must be in 40000-level computer science courses and the remaining 3 credit hours can be from 30000-level or above computer science courses.

**TOTAL** 19

*MATH 12002 is a prerequisite for some electives.  
** C (2.00) grade or better in these courses is a stated prerequisite for many other required courses in the program.  
*** MATH 12001 is a prerequisite that should be bypassed by students with sufficient background.

Minimum cumulative 2.00 GPA required for graduation.

---

**Economics Minor**

ECON 22060 Principles of Microeconomics  
22061 Principles of Macroeconomics  
Economics upper-division courses (which may include ECON 32040 or 32041 if not selected below) elected with the approval of the student’s advisor.

Choose from the following:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 32040 Intermediate Microeconomic Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>32041 Intermediate Macroeconomic Theory and Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL** 18
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 for graduation.

English Minor

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 25001 Literature in English I</td>
<td>3</td>
</tr>
<tr>
<td>30001 Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following</td>
<td>3</td>
</tr>
<tr>
<td>25002 Literature in English II (3)</td>
<td></td>
</tr>
<tr>
<td>25003 Literature in the United States (3)</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Distribution requirements

Choose one course listed in the major from each of the following three areas: (1) historical courses; (2) genre studies, cultural studies, literary theory; and (3) writing and language studies.

TOTAL 21*

*Minimum 12 of the 21 total credit hours must be upper-division.

Minimum cumulative 2.00 GPA required for graduation.

French Minor

Prerequisites

Prerequisites may be waived by demonstrated proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 13201 Elementary French I</td>
<td>4</td>
</tr>
<tr>
<td>13202 Elementary French II</td>
<td>4</td>
</tr>
<tr>
<td>23201 Intermediate French I (3)</td>
<td></td>
</tr>
<tr>
<td>23202 Intermediate French II (3)</td>
<td></td>
</tr>
</tbody>
</table>

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 33211 French Conversation</td>
<td>3</td>
</tr>
<tr>
<td>33212 French Composition</td>
<td>3</td>
</tr>
<tr>
<td>33215 French Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>33421 French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>French 40000-level course</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following</td>
<td>6</td>
</tr>
<tr>
<td>FR 33335 Introduction to French Theatre (3)</td>
<td></td>
</tr>
<tr>
<td>33336 Introduction to French Poetry (3)</td>
<td></td>
</tr>
<tr>
<td>33337 Introduction to the French Novel (3)</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL 22

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

Minimum cumulative 2.00 GPA required for graduation.

Geography Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 10160 Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>29160 Mapping Our World</td>
<td>3</td>
</tr>
<tr>
<td>Additional geography courses*</td>
<td>15</td>
</tr>
<tr>
<td>Choose from the following</td>
<td>3</td>
</tr>
<tr>
<td>GEOG**17063 World Geography</td>
<td>3</td>
</tr>
<tr>
<td>** 17064 Geography of the U.S. and Canada</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL 24

*Minimum 9 of the 15 credit hours must be upper-division.
**Course fulfills diversity requirement.

Minimum cumulative 2.00 GPA required for graduation.

Geology Minor

Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI * 10110 Biological Diversity</td>
<td>4</td>
</tr>
<tr>
<td>* 20560 Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM**10060 General Chemistry I</td>
<td>4</td>
</tr>
</tbody>
</table>

Minimum cumulative 2.00 GPA required for graduation.
College of Arts and Sciences

Minor Requirements
Choose from the following courses:  
- GEOL 11040 Earth Dynamics (3)
- 11042 Earth History (3)
- 21062 Environmental Geology (3)
- 21808 Oceanography (3)

*** Geology courses not listed above  

**Total 21**

*Either BSCI course is recommended as a pre/corequisite for GEOL 34061.

**High school algebra or its equivalent is a prerequisite. This course is a pre/corequisite for GEOL 23063.

***Maximum 3 credit hours of GEOL 40096 may be applied to the 18 upper-division credit hours.

S/U graded classes may not be applied to the minor.

Minimum cumulative 2.00 GPA required for graduation.

German Minor

Prerequisites
Prerequisites may be waived by demonstrated proficiency.

GER 11201 Elementary German I (4)
11202 Elementary German II (4)
21201 Intermediate German I (3)
21202 Intermediate German II (3)

Minor Requirements
- GER 31201 Intensive German Grammar  
- 31211 German Composition and Conversation  
- 31303 Introduction to German Literature  
- 31421 German Civilization  

German culture and literature upper-division courses  

**Total 18**

Minimum cumulative 2.00 GPA required for graduation.

Greek Minor

Prerequisites
Prerequisites may be waived by demonstrated proficiency.

GRE 14201 Elementary Classical Greek I (4)
14202 Elementary Classical Greek II (4)

Greek Language and Literature
- GRE 24201 Intermediate Classical Greek I  
- 24202 Intermediate Classical Greek II  
- 34370 Plato, Apology and Phaedo  
- 34371 Homer  

Greek Culture
Choose from the following:  
- CLAS 21404 The Greek Achievement  
- 41097 Colloquium in Classics  
- 41301 Classical Mythology  
- 41401 Greek Archaeology and Art  
- 41503 Greek Literature in Translation  

Greek course at 30000-40000 level  

**Total 18**

Minimum cumulative 2.00 GPA required for graduation.
Health Care Ethics Minor

(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 PHIL 40005 Health Care Ethics 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.

Minor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 30050</td>
<td>Human Genetics</td>
<td>3</td>
</tr>
<tr>
<td>HED 21050</td>
<td>Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOC 42563</td>
<td>Sociology of Health and Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 40005</td>
<td>Health Care Ethics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>21001 Introduction to Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from the following clusters: 9

Cluster I:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI 20021</td>
<td>Basic Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>40020</td>
<td>Biology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

Cluster II:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC 42010</td>
<td>Death and Dying</td>
<td>3</td>
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</tbody>
</table>

Cluster III:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HED 14020</td>
<td>Introduction to Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>42041</td>
<td>Health Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Cluster IV:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 21003</td>
<td>Ethics in Contemporary Contexts</td>
<td>3</td>
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</tbody>
</table>

Cluster V:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONR**30297</td>
<td>Junior Colloquium</td>
<td>3</td>
</tr>
<tr>
<td>ILS***49993</td>
<td>Human Values in Medicine</td>
<td>1-5</td>
</tr>
</tbody>
</table>

*Maximum 6 credit hours may be taken in any one cluster

TOTAL 24

Hellenic Studies Minor

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

History of Greece

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 31009</td>
<td>History of Byzantine Civilization</td>
<td>3</td>
</tr>
<tr>
<td>31050</td>
<td>History and Society of Modern Greece</td>
<td>3</td>
</tr>
<tr>
<td>41003</td>
<td>History of Ancient Greece</td>
<td>3</td>
</tr>
</tbody>
</table>

Classical Hellenism

Choose one of the following groups: 6-9

CLAS 41503 Greek Literature in Translation

PHIL 41301 Classical Mythology

ARTH 42031 Greek Art and Archaeology

HIST 41049 History of the Balkans: 18th Century-1914

41050 History of the Balkans: 1914-Present

41079 History of the Immigrant in America

48997 Colloquium on the Immigrant in American History

Individual Investigation

Choose from the following:* 3

Byzantine Empire

Greek Immigrants in America

Modern Greece

Language Cognate: Ancient or Modern Greek

(or equivalent in proficiency) May be taken through either, or a combination of, GRE 14201, 14202, 14203, 34370, or GRE 14205, 14206, 14208, 14209.

TOTAL 38

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

Minimum cumulative 2.00 GPA required for graduation.

History Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 11050</td>
<td>History of Civilization I</td>
<td>3</td>
</tr>
<tr>
<td>11051</td>
<td>History of Civilization II</td>
<td>3</td>
</tr>
<tr>
<td>12070</td>
<td>History of U.S.: Formative Period</td>
<td>3</td>
</tr>
<tr>
<td>12071</td>
<td>History of U.S.: Modern Period</td>
<td>3</td>
</tr>
</tbody>
</table>

History upper-division electives 12

Minimum cumulative 2.00 GPA required for graduation.
Electives must include minimum 3 credit hours of American history; 3 credit hours of European history, including English and Russian histories; and 3 credit hours African, ancient, Latin American, medieval or Far Eastern history.

**TOTAL 24**

Minimum cumulative 2.00 GPA required for graduation.

### Jewish Studies Minor

(Richard Steigmann-Gall, Coordinator, 321 Bowman Hall)

Each year, five $4,000 scholarships can 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.

**Minor Requirement**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS 22001</td>
<td>Introduction to Jewish Studies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Jewish Literature, Art or Thought</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 3201</td>
<td>The Bible as Literature</td>
<td>3</td>
</tr>
<tr>
<td>GER 23531</td>
<td>Yiddish Short Stories in Translation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31125</td>
<td>Zionism and Israel</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31126</td>
<td>History of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 21020</td>
<td>Comparative Religious Thought I</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 21021</td>
<td>Comparative Religious Thought II</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 31065</td>
<td>Philosophies of Religious Experience</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 31068</td>
<td>Religious Thought in Contemporary Contexts</td>
<td>3</td>
</tr>
<tr>
<td><strong>Jewish History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 31127</td>
<td>Ancient and Early Medieval Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31128</td>
<td>Late Medieval and Modern Jewish History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41041</td>
<td>History of Germany, 1871-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41129</td>
<td>The Holocaust: The Destruction of European Jewry</td>
<td>3</td>
</tr>
<tr>
<td><strong>Latin Minor</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LAT 16201</td>
<td>Elementary Latin I</td>
<td>4</td>
</tr>
<tr>
<td>LAT 16202</td>
<td>Elementary Latin II</td>
<td>4</td>
</tr>
<tr>
<td>LAT 26201</td>
<td>Intermediate Latin I: Readings</td>
<td>3</td>
</tr>
<tr>
<td>LAT 26202</td>
<td>Intermediate Latin II: Readings</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 21405</td>
<td>The Roman Achievement</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41006</td>
<td>Roman History (or HIST 41006)</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41097</td>
<td>Colloquium in Classics</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41301</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41402</td>
<td>Roman Archaeology and Art</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41006</td>
<td>Roman History (or CLAS 41006)</td>
<td>3</td>
</tr>
<tr>
<td>JMC 40010</td>
<td>Ethics and Issues in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 41010</td>
<td>Problems in the Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 41015</td>
<td>Philosophical Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td>POL 30501</td>
<td>Comparative Theory and Concepts</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 41332</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SDC 42561</td>
<td>Sociology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SDC 42568</td>
<td>Race and Ethnic Studies</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL 21</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Appropriate special topics and seminar courses may be substituted with approval of the Jewish studies coordinator.

Minimum cumulative 2.00 GPA required for graduation.

### Justice Studies Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUS 12000</td>
<td>Introduction to Justice Studies</td>
<td>3</td>
</tr>
<tr>
<td>JUS 22300</td>
<td>Police Role</td>
<td>3</td>
</tr>
<tr>
<td>JUS 26701</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>JUS 36702</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Justice Studies upper-division electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JUS 26702</td>
<td>Justice Studies upper-division elective</td>
<td>3</td>
</tr>
<tr>
<td>JUS 46792</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL 24</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Courses that cannot be used as an upper-division elective: JUS 45093 Variable Title Workshop, JUS 45096 Individual Investigation and JUS 46792 Internship.

Minimum cumulative 2.00 GPA required for graduation.

### Latin Minor

**Prerequisites**

Prerequisites may be waived by demonstrated proficiency.

**Latin Language and Literature**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAT 16201</td>
<td>Elementary Latin I</td>
<td>4</td>
</tr>
<tr>
<td>LAT 16202</td>
<td>Elementary Latin II</td>
<td>4</td>
</tr>
<tr>
<td>LAT 26201</td>
<td>Intermediate Latin I: Readings</td>
<td>3</td>
</tr>
<tr>
<td>LAT 26202</td>
<td>Intermediate Latin II: Readings</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 21405</td>
<td>The Roman Achievement</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41006</td>
<td>Roman History (or HIST 41006)</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41097</td>
<td>Colloquium in Classics</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41301</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>CLAS 41402</td>
<td>Roman Archaeology and Art</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41006</td>
<td>Roman History (or CLAS 41006)</td>
<td>3</td>
</tr>
<tr>
<td>JMC 40010</td>
<td>Ethics and Issues in Mass Communication</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 41010</td>
<td>Problems in the Philosophy of Religion</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 41015</td>
<td>Philosophical Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL 18</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Minimum cumulative 2.00 GPA required for graduation.
Latin American Studies Minor

(Luis Hermosilla, Coordinator, 109 Satterfield Hall)

Choose from three or more subject areas: ..........................................18
ANTH 48425 Ancient Mesoamerica (3)
ENG 21001 Introduction to Ethnic Literature of the U.S. (3)
GEOG 37084 Geography of South America (3)
37085 Geography of Central America and Mexico (3)
HIST 31140 Modern Latin America (3)
31141 Early Latin America (3)
31143 African-Brazilian Experience in Culture and Literature (3)
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)
JUS 37311 Minorities in Crime and Justice (3)
MCLS 28403 Hispanics in the United States (3)
28404 The Latin American Experience (3)
37143 African-Brazilian Experience in Culture and Literature (3)
PAS 24407 Caribbean Studies (3)
33508 Caribbean Social and Political Directions (3)
37143 African-Brazilian Experience in Culture and Literature (3)
POL 30550 Latin American Politics (3)
30551 U.S.-Latin American Relations (3)
SOC 32569 Minorities in America (3)
32610 Birth, Death and Migration (3)
The following courses are taught in Portuguese. Students must meet the prerequisites prior to enrolling.
PORT 37330 Early Brazilian Literature (3)
37331 Recent Brazilian Literature (3)
37421 Luso-Brazilian Civilization (3)
The following courses are taught in Spanish. Students must meet the prerequisites prior to enrolling.
SPAN 38334 Early Spanish American Literature (3)
38335 Recent Spanish American Literature (3)
38424 Culture and Civilization of Latin America (3)
48216 Contemporary Hispanic Culture (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)
48378 U.S. Latina/o Writers (3)

TOTAL 18

Minimum cumulative 2.00 GPA required for graduation.

Lesbian, Gay, Bisexual and Transgendered Studies Minor

(Richard Berrong, 307-E Satterfield Hall, Co-coordinator; Daniel Nadon, Trumbull Campus, Co-coordinator)

Maximum 6 credit hours counted toward student’s major may also be counted toward the minor. Selected or special topics or variable content courses with LGBT content may be counted toward the minor if approved by the coordinator.

Minor Requirements

AS 22069 Introduction to LGBT Studies .........................3
30196 Individual Investigation .........................3

Block A

Choose from the following: ..........................................................9
AS ** 40095 Special Topics (3)
ENG 21003 Introduction to LGBT Literature (3)
35301 LGBT: Critical Perspectives (3)
MCLS 30376 The Novels of Pierre Loti (3)
SOC 32565 Sociology of Gays and Lesbians (3)
42315 Sociology of Changing Gender Roles (3)
or
PSYC 40625 Development of Gender Role and Identity (3)
THEA 41114 Gay and Lesbian Theatre (3)
WMST 30000 Colloquium in Women’s Studies (3)

Block B

Choose from the following: ......................................................6
AMST 10001 Introduction to American Studies (3)
ANTH 48830 Human Behavioral Ecology and Evolution (3)
HED 32544 Human Sexuality (3)
47070 AIDS: Issues, Education and Prevention (3)
JUS 27311 Victimology (3)
POL 40920 Politics of Social Movements (3)
SOC 22778 Social Problems (3)
32560 Sociology of Families (3)
32570 Inequality in Society (3)
42359 Social Movements (3)
42400 Self and Identity (3)

TOTAL 21

*Any Block A course can be used to fill the Block B requirement.
**May be substituted with the approval of the coordinator.
Minimum cumulative 2.00 GPA required for graduation.
Lithuanian Studies Minor

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

Lithuanian History ..................................................6
Choose from the following: ..................................3
HIST 41044 Imperial Russia, 1689-1917 (3)
        41045 Modern Russia, 1917-Present (3)
Choose from the following: ..................................3
AS  40197 Russian Area Studies Colloquium (3)
GEOG 40195 Special Topics: Minorities in Soviet Union (3)
HIST 45597 Colloquium in Russian History (3)
        48997 Colloquium on the Immigrant in
        American History (3)

Lithuanian Culture ..................................................6
Choose from the following: ..................................6
AS  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)

chosen courses may be substituted as available
and with prior approval of the coordinator of Lithuanian studies.

Lithuanian Civilization ............................................6
HRTG 30095 Special Topics ..................................3
HRTG 30095 Special Topics ..................................3

Language Cognate: Lithuanian-Heritage Languages ..............14
Courses may be substituted to those equivalent in proficiency.
HRTG 10101 Elementary I (Variable Language) 4
        10102 Elementary II (Variable Language) 4
        20201 Intermediate I (Variable Language) 3
        20202 Intermediate II (Variable Language) 3

TOTAL 32

Minimum cumulative 2.00 GPA required for graduation.

Mathematics Minor

Prerequisites
MATH* 12001 Algebra and Trigonometry (4)
Choose one of the following:
CS ** 10051 Introduction to Computer Science (4)
        10061 Introduction to Computer Programming (3)

Minor Requirements .............................................22
MATH 12002 Analytic Geometry and Calculus I .............5
12003 Analytic Geometry and Calculus II .............5
        21001 Linear Algebra with Applications ...........3
        22005 Analytic Geometry and Calculus III ........3
Choose from one of the three categories: .................6

Algebra
MATH 41001 Introduction to Modern Algebra I (3)
        41002 Introduction to Modern Algebra II (3)
        41021 Theory of Matrices (3)
        47011 Theory of Numbers (3)

Analysis
MATH 42001 Introduction to Analysis I (3)
        42002 Introduction to Analysis II (3)
        42041 Advanced Calculus (3)
        42045 Introduction to Partial Differential Equations (3)
        42048 Introduction to Complex Variables (3)

Geometry/Topology
MATH 42021 Graph Theory and Combinatorics (3)
        45011 Differential Geometry (3)
        45021 Euclidean Geometry (3)
        45022 Linear Geometry (3)
        46001 Elementary Topology (3)

Elective ...........................................................3
Choose from the following in consultation with students' minor
advisor:
MATH 31011 Discrete Mathematics (3)
        32044 Introduction to Ordinary Differential Equations (3)
Mathematics 40000-level course (3)

TOTAL 25

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

**Students planning to take computer science courses at the
20000 level or above must take CS 10051.

Minimum cumulative 2.00 GPA required for graduation.

North Atlantic Security Studies Minor

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

The Lyman L. Lemnitzer Center for NATO and European Union
Studies was 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 com-
bining courses focused on NATO and related security issues.
College of Arts and Sciences

Minor Requirement
HIST 47597 Colloquium on NATO ........................................ 3

Electives
Choose from minimum two of the following areas: .................. 18
ECON 42075 International Economic Relations (3)
GEOG 37066 Geography of Europe (3)
HIST 31029 History of British Empire and Commonwealth Since 1815 (3)
41024 Modern European History, 1914-1945 (3)
41025 Modern European History: 1945-Present (3)
41045 Modern Russia, 1917-Present (3)
41050 History of the Balkans: 1914-Present (3)
46597 Colloquium in 20th-Century European Diplomacy (3)
POL 30520 European Politics (3)
30820 International Organization and Law (3)
40830 U.S. Foreign Policy (3)

TOTAL 21*

*Maximum 9 of the 21 credit hours counted for the minor may be in the major field.

Minimum cumulative 2.00 GPA required for graduation.

Pan-African Studies Minor

Minor Requirements ......................................................... 18
PAS 37000 Oral and Written Discourse in Pan-African Studies .................. 3
37010 Research Methods in Pan-African Studies .................. 3
Choose one of the following groups: ................................. 6
PAS 13001 Foundations in Pan-African Studies I (3)
13002 Foundations in Pan-African Studies II (3)
or
23001 Black Experience I: Beginnings to 1865 (3)
23002 Black Experience II: 1865-Present (3)
Choose from the following: .............................................. 3
PAS 22200 Introduction to African Arts (3)
34000 Introduction to African World View (3)
Choose from the following: .............................................. 3
PAS 35100 African American Social Political and Economic Systems (3)
35200 African Social, Political and Economic Systems (3)

Elective upper-division courses .......................................... 6

TOTAL 24

Minimum cumulative 2.00 GPA required for graduation.

Paralegal Studies Minor

(Hedi Nasheri, Coordinator, 113 Bowman Hall)
The paralegal studies minor at the Kent Campus has been approved by the American Bar Association. Students may minor in paralegal studies in conjunction with a four-year baccalaureate degree.

Maximum 9 credit hours from the major may be used to complete the requirements of the minor in paralegal studies.

Category I Requirements .................................................. 18
Must complete the following sequence of specialty courses:
JUS *18000 Introduction to Paralegal Studies ................... 3
* 28001 Legal Research and Writing ......................... 3
* 28004 Principles and Practice of Litigation ................ 3
Choose from the following: .............................................. 9
JUS * 28003 Family Law and Procedure (3)
* 28007 Estate and Probate Administration (3)
38003 Administrative Law and Process (3)
38005 Tort Law (3)
38006 Applied Legal Research and Litigation (3)
47111 Civil Law and Procedure (3)

Category II Requirement .................................................. 3
JUS 36792 Internship in Paralegal ......................... 3

Category III Requirements .................................................. 9
Choose from the following law-related courses:
ACCT 33000 Fundamental Tax Procedures (3)
FIN 26070 Introduction to Law (3)
26074 Legal Environment of Business (3)
JUS 22100 Basic Interviewing (3)
26704 Issues in Law and Society (3)
33200 Criminal Law (3)
34200 Criminal Procedures and Evidence (3)
38007 Human Service Agencies and the Law (3)
47211 Court Functions (3)
PHIL 31035 Philosophy and Justice (3)
41025 Philosophy of Law (3)
POL 30301 Introduction to Public Administration (3)
30130 Courts (3)
40182 Constitutional Law: Government Powers (3)
40183 Constitutional Law: Civil Rights and Liberties (3)

Any course listed above not used to complete the specialty minor.

TOTAL 30

*Course is cross-listed with Legal Assisting Technology (LEGT).
Minimum cumulative 2.00 GPA required for graduation.
Paralegals may not provide legal services directly to the public except as permitted by law.

2008-2009 Kent State University Undergraduate Catalog
### Philosophy Minor

**Minor Requirements**

Choose from the following:  9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 11001</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>11009</td>
<td>Principles of Thinking</td>
<td>3</td>
</tr>
<tr>
<td>21001</td>
<td>Introduction to Ethics</td>
<td>3</td>
</tr>
<tr>
<td>21002</td>
<td>Introduction to Formal Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Choose from the following*  12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 31001</td>
<td>Ancient Greek Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>31002</td>
<td>Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>31003</td>
<td>Continental Rationalism</td>
<td>3</td>
</tr>
<tr>
<td>31004</td>
<td>British Empiricism</td>
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<tr>
<td>31005</td>
<td>German Critical Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>31006</td>
<td>19th-Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>31010</td>
<td>20th-Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>31020</td>
<td>American Philosophy</td>
<td>3</td>
</tr>
</tbody>
</table>

Philosophy 40000-level course(s)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

**Total**  21

*Minimum 9 of the 12 credit hours must be upper division. The course not used in minor requirements may be chosen. At least one course in the history of philosophy must be included.

**At least one course must be at the 40000-level. PHIL 40093 Variable Title Workshop, PHIL 49996 Individual Investigation and PHIL 49999 Senior Honors Project may not be counted toward the minor.

Minimum cumulative 2.00 GPA required for graduation.

### Physics Minor

**Prerequisites**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MATH 11010</td>
<td>Algebra for Calculus</td>
<td>3</td>
</tr>
<tr>
<td>11022</td>
<td>Trigonometry</td>
<td>2</td>
</tr>
<tr>
<td>12002</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>12003</td>
<td>Analytic Geometry and Calculus II</td>
<td>5</td>
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</table>

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHY 12000</td>
<td>Introductory Physics Seminar</td>
<td>1</td>
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<tr>
<td>23101</td>
<td>General University Physics I</td>
<td>5</td>
</tr>
<tr>
<td>23102</td>
<td>General University Physics II</td>
<td>5</td>
</tr>
<tr>
<td>30020</td>
<td>Intermediate Physics Lab</td>
<td>2</td>
</tr>
<tr>
<td>36001</td>
<td>Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>36002</td>
<td>Applications of Modern Physics</td>
<td>3</td>
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</tbody>
</table>

Physics additional hours  4

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

**Total**  23

Minimum two hours must be upper division.

Minimum cumulative 2.00 GPA required for graduation.

### Political Science Minor

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 10100</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>10300</td>
<td>Public Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Political science upper-division courses*  12

Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 10004</td>
<td>Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>10500</td>
<td>World Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total**  21

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

Minimum cumulative 2.00 GPA required for graduation.

### Pre-Law Minor

(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 pre-law students choose a major in political science, history, sociology, psychology, economics or English. A Bachelor of General Studies 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 LER, 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 pre-law advisors in the Department of Political Science or in the students’ major department. A list of pre-law advisors is available in the college office. Consultation with a pre-law advisor is urged, regardless of the students’ major, minor or college. The Department of Political Science also has available LSAT registration packets, pre-law planning guides, information on law school admissions of Kent State University students and financial aid information. The department maintains a file of law school catalogs and also sponsors a pre-law 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 pre-law information is located on the third floor of Bowman Hall near the Department of Political Science.

Minor Requirements

ENG 30064 Argumentative Prose Writing .......................... 3
PHIL 11009 Principles of Thinking ...................................... 3
PHIL 21001 Introduction to Ethics ....................................... 3
PHIL 21002 Introduction to Formal Logic ............................ 3

Electives ................................................................. 12
Choose one course from each of the following four areas:

Business ................................................................. 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)

English ................................................................. 3
ENG 30001 English Studies (3)
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)

History and Philosophy .................................................. 3
HIST 41057 Eighteenth-Century America: 1714-1789 (3)
41058 Jefferson-Jackson Era: 1789-1848 (3)
41082 Constitutional History of the United States (3)
41089 Recent America: U.S., 1945-Present (3)
PHIL 31035 Philosophy and Justice (3)
41025 Philosophy of Law (3)

Social Science ......................................................... 3
CAGM 34040 Negotiation (3)
38080 Mediation: Theory and Training (3)
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 24

Maximum three courses counted toward the students’ major may 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 Liberal Education Requirements (LER) 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 LER courses or college general requirements.

Minimum cumulative 2.00 GPA required for graduation.

Psychology Minor

PSYC 11762 General Psychology ........................................ 3
21621 Quantitative Methods in Psychology .......................... 3
31574 Research Methods in Psychology ............................... 3

Psychology upper-division courses* .................................. 9

TOTAL 18

*Maximum 3 credit hours of PSYC 31498, 41405, 41408 and 41574 combined may be applied toward minor requirements in psychology.

Minimum cumulative 2.00 GPA required for graduation.
**Religion Studies Minor**

(David Odell-Scott, Coordinator, 320 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.

Maximum 6 credit hours of coursework counted toward the major may be also counted toward the religion studies minor.

### I. Core Studies

Choose from at least three of the following four categories:

**Comparative Religion**
- AS 30095 Special Topics: Studies in the Eastern Christian World (3)
- PAS 34000 Introduction to African World View (3)
- PHIL 21020 Comparative Religious Thought I (3)
- PHIL 21021 Comparative Religious Thought II (3)

**Judaeo-Christian Tradition**
- ENG 35201 The Bible as Literature (3)
  
**Philosophy of Religion**
- PHIL 31065 Philosophies of Religious Experience (3)
- 41010 Problems in the Philosophy of Religion (3)

**Social Patterns of Religion**
- ANTH 38250 Religion: A Search for Meaning (3)
- SOC 42561 Sociology of Religion (3)

### II. Cognate Studies

Choose either A. General or B. Catholic Thought:

**A. General (9)**

Choose three courses in at least two areas.

**Religion and The Arts**
- ARTH 22006 Art History I (3)
- ARTH 22007 Art History II (3)
- 42036 Medieval Art (3)

**Religion and The Sciences**
- MUS 42111 African Music and Cultures (3)
- 42151 Asian Musics (3)
- 42271 Choral Literature: The Anthem (3)
- 42331 Music in Worship (3)

**Religion and History**
- HIST 31009 History of Byzantine Civilization (3)
- 31127 Ancient and Early Medieval Jewish History (3)
- 41016 The Protestant and Catholic Reformations (3)
- 41097 Colloquium: Saints, Monks and the Medieval Community (3)

**Religion and The Classics:**
- CLAS 41301 Classical Mythology (3)
- 41503 Greek Literature in Translation (3)
- HIST 41004 Hellenic Contributions to Western Civilization (3)
- PHIL 31001 Ancient Greek Philosophy (3)

**B. Catholic Thought (11-12)**

Choose three to four courses, minimum one from each area.

**English**
- AS 30095 Special Topics: Classics of Christian Literature (3)
- 40095 Special Topics: Myth and Religion in Literature (3)
- ENG 31055 Literature and Other Disciplines (3)

**History/Arts and Sciences**
- AS 30095 Special Topics: Modern Catholic Thought (3)
- 40095 Special Topics: Modern Catholic Thought (3)
- HIST 41016 Protestant and Catholic Reformation (3)

**Classics**
- GRE 14201 Elementary Classical Greek I (4)
- 14202 Elementary Classical Greek II (4)
- 34351 New Testament in Greek (3)
- HEBR 12101 Elementary Hebrew I (4)
- 12102 Elementary Hebrew II (4)

**TOTAL** 21-24

Minimum cumulative 2.00 GPA required for graduation.

---

**Romanian Studies Minor**

**Romanian Civilization**
- GEOG 37050 Geography of Russia and the Commonwealth States (3)
- HIST 31051 Romanian Civilization (3)

**Appropriate political science course** (3)

**Romanian Language and Literature**
- Special Topic (as available) (3-6)

**Language Cognate**
- HRTG 10101 Elementary I (Variable Language) (4)
- 10102 Elementary II (Variable Language) (4)
- 20201 Intermediate I (Variable Language) (3)
- 20202 Intermediate II (Variable Language) (3)

**Studies in Romanian Civilization**
- HIST 38095 Selected Topics in History: Romania (3)
- 38997 Colloquium in History: Romania (3)

Students may choose other courses equivalent in proficiency.
41079 History of the Immigrant in America (3)
48997 Colloquium on the Immigrant in American History (3)
49196 Individual Investigation: Romanian History (3-5)
POL 40996 Individual Investigation (appropriate topic) (1-3)

Cognate Area* ........................................... 3-6

Choose from the following:
EXPR 30295 Special Topics: History of Orthodox Church (3)
HIST 31009 History of Byzantine Civilization (3)
41003 History of Ancient Greece (3)
41006 Roman History (3)
41010 The Early Middle Ages (3)
41044 Imperial Russia, 1689-1917 (3)
41045 Modern Russia, 1917-Present (3)
41049 Balkans to 1914 (3)
41050 Balkans: 1914-Present (3)

TOTAL 36

*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 for graduation.

**Russian Minor**

**Prerequisites**
Prerequisites may be waived by demonstrated proficiency.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 12201</td>
<td>Elementary Russian I (4)</td>
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<tr>
<td>12202</td>
<td>Elementary Russian II (4)</td>
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<tr>
<td>22201</td>
<td>Intermediate Russian I (3)</td>
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</tr>
<tr>
<td>22202</td>
<td>Intermediate Russian II (3)</td>
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</table>

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS 32201</td>
<td>Intensive Russian Grammar</td>
<td>3</td>
</tr>
<tr>
<td>32211</td>
<td>Composition and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>32303</td>
<td>Modern Writers</td>
<td>3</td>
</tr>
<tr>
<td>32421</td>
<td>Russian Civilization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Russian upper-division literature courses</td>
<td>6</td>
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</tbody>
</table>

TOTAL 18

Minimum cumulative 2.00 GPA required for graduation.

**Sociology Minor**

**Prerequisites**
Prerequisites may be waived by demonstrated proficiency.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>SOC 12050</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>22100</td>
<td>Sociological Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Additional sociology courses</td>
<td>15</td>
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</table>

Minimum 12 of the 15 credit hours must be upper division

TOTAL 21

Minimum cumulative 2.00 GPA required for graduation.

**Spanish Minor**

**Prerequisites**
Prerequisites may be waived by demonstrated proficiency.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SPAN 18201</td>
<td>Elementary Spanish I (4)</td>
<td></td>
</tr>
<tr>
<td>18202</td>
<td>Elementary Spanish II (4)</td>
<td></td>
</tr>
</tbody>
</table>

Total 6

Minimum cumulative 2.00 GPA required for graduation.
College of Arts and Sciences

28201 Intermediate Spanish I (3)
28202 Intermediate Spanish II (3)

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 38211</td>
<td>Spanish Grammar and Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38213</td>
<td>Spanish Reading and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38421</td>
<td>Civilization of Spain</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38424</td>
<td>Culture and Civilization of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>Spanish 40000-level course</td>
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</table>

Choose from the following: ........................................... 3

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>SPAN 38330</td>
<td>Early Spanish Literature (3)</td>
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</tr>
<tr>
<td>SPAN 38331</td>
<td>Recent Spanish Literature (3)</td>
<td></td>
</tr>
</tbody>
</table>

Choose from the following: ........................................... 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 38334</td>
<td>Early Spanish-American Literature (3)</td>
<td></td>
</tr>
<tr>
<td>SPAN 38335</td>
<td>Recent Spanish-American Literature (3)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 21

Minimum cumulative 2.00 GPA required for graduation.

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**Urban Studies and Planning Minor**

(David Kaplan, Coordinator, 440 McGilvrey Hall)

In addition to the required core courses, students must complete minimum 6 credit 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 advisor and all appropriate prerequisites must be met.

**Minor Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 42081</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 36065</td>
<td>Cities and Urbanization</td>
<td>3</td>
</tr>
<tr>
<td>POL 30450</td>
<td>Metropolitan Governance</td>
<td>3</td>
</tr>
<tr>
<td>SOC 32673</td>
<td>Urban Processes and Life Styles</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Choose from the following: ........................................... 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 32084</td>
<td>Economics of the Environment (3)</td>
<td></td>
</tr>
<tr>
<td>GEOG 45085</td>
<td>Urban Transportation</td>
<td></td>
</tr>
<tr>
<td>46035</td>
<td>Marketing Geography (3)</td>
<td></td>
</tr>
<tr>
<td>46065</td>
<td>Advanced Urban Geography (3)</td>
<td></td>
</tr>
<tr>
<td>46070</td>
<td>Urban and Regional Planning (3)</td>
<td></td>
</tr>
<tr>
<td>46092</td>
<td>Internship in Geography and Planning (6)</td>
<td></td>
</tr>
<tr>
<td>49480</td>
<td>Field Studies in Geography (3)</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate statistics course (3)

Offered by management and information systems, geography, mathematical sciences, political science, sociology.

**TOTAL** 18

Minimum cumulative 2.00 GPA required for graduation.

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**Web Design and Programming Minor**

Offered jointly between the Department of Computer Science in the College of Arts and Sciences and the School of Visual Communication Design in the College of Communication and Information.

**Prerequisites** (choose one)

- MATH 11011 College Algebra (4)
- MATH 12001 Algebra and Trigonometry (4)
- Two years of high school algebra

**Minor Requirements**

Choose one of the following groups: .................................... 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS * 47105</td>
<td>Web Design and Programming I (3)</td>
<td></td>
</tr>
<tr>
<td>* 47106</td>
<td>Web Design and Programming II (3)</td>
<td></td>
</tr>
<tr>
<td>* 47107</td>
<td>Web Design and Programming Studio (3)</td>
<td></td>
</tr>
</tbody>
</table>

or

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCD 46000</td>
<td>Web Design and Programming I (3)</td>
<td></td>
</tr>
<tr>
<td>46001</td>
<td>Web Design and Programming II (3)</td>
<td></td>
</tr>
<tr>
<td>46053</td>
<td>Web Design and Programming Studio (3)</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following groups: .................................... 7

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10051</td>
<td>Introduction to Computer Science (4)</td>
<td></td>
</tr>
<tr>
<td>* 23021</td>
<td>CS I: Programming and Problem Solving (4)</td>
<td></td>
</tr>
<tr>
<td>* 33001</td>
<td>CS II: Data Structures and Abstraction (3)</td>
<td></td>
</tr>
</tbody>
</table>

Choose from the following: ........................................... 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCD 13001</td>
<td>Introduction to Visual Communication Design II (3)</td>
<td></td>
</tr>
<tr>
<td>20003</td>
<td>Intermediate Computer Graphic Design and Illustration—Various Software Programs (3)</td>
<td></td>
</tr>
<tr>
<td>* 37000</td>
<td>Visual Design for Media/Advanced (3)</td>
<td></td>
</tr>
<tr>
<td>* 46003</td>
<td>Digital Typography (3)</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 22

*Students in the College of Arts and Sciences must take these courses to fulfill the requirements for their major.

Minimum 2.25 GPA in the minor required for graduation.

Minimum cumulative 2.00 GPA required for graduation.
Women’s Studies Minor

Students earning a minor in women’s studies select courses (totaling 21 credit hours) from the following list. No more than 6 credit 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 director; no more than two such courses may be counted. Other selected or special topics or variable content courses with women’s studies topics may be counted toward the certificate if approved by the director.

Choose from the following: ........................................... 3
Course not chosen may be applied to the 15 credit hours, below.
WMST 30000 Colloquium in Women’s Studies (3)
  30001 Feminist Theory (3)
Choose from the following: ........................................... 15
COMM 35912 Gender and Communication (3)
ENG 21002 Introduction to Women’s Literature (3)
  34021 Women’s Literature (3)
HDFS 44022 Changing Roles of Men and Women (3)
HED 32544 Human Sexuality (3)
  44025 Women’s Health Issues (3)
JUS 37411 Women in Crime and Justice (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 40470 Women, Politics and Policy (3)
PSYC 40625 Development of Gender Role and Identity (3)
RPTM 36085 Leisure and Culture (3)
SOC 42315 Sociology of Changing Gender Roles (3)
WMST 20095 Special Topics in Women’s Studies (1-5)
  30095 Special Topics in Women’s Studies II (1-5)
  40095 Special Topics in Women’s Studies III (1-5)
Guided Independent Study: ........................................... 3
Students register for WMST 30196 Individual Investigation, a guided independent project with a written and oral report. Admission controlled. See women’s studies coordinator for further information.

TOTAL 21

Minimum cumulative 2.00 GPA required for graduation.

The Writing Minor

(December 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 ............................................ 2
Choose from the following: ........................................... 12
Maximum two courses at the 20000 level.
ENG * 20002 Introduction to Technical Writing (3)
  * 20021 Introduction to Creative Writing (3)
  * 30062 Principles of Technical Writing (3)
  * 30063 Business and Professional Writing (3)
  * 30064 Argumentative Prose Writing (3)
  * 30065 Expository Prose Writing (3)
  * 30067 Fiction Writing I (3)
  * 30068 Fiction Writing II (3)
  * 30069 Poetry Writing I (3)
  * 30070 Poetry Writing II (3)
JMC * 40037 Scriptwriting for Video and Film (3)
THEA 41026 Playwriting (3)
  * 41027 Advanced Playwriting (3)

Cognate Courses

Choose from both Group A and Group B: ......... 9-11
Minimum one course from each group. Maximum one course 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 Special Topics: Linguistics (3)
  * 39595 Special Topics: 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 Theory (3)
  * 35252 Theories of Rhetorical Discourse (3)
### MINORS IN OTHER COLLEGES/SCHOOLS

In addition to the departmental minors and the interdisciplinary minors listed in the previous section, 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.

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### 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 American Sign Language, biology, earth science, French, German, Latin, mathematics, Russian, Spanish or teaching English as a second language. The College of Education, Health, and Human Services 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, Health, and Human Services 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, Health, and Human Services’ professional requirements for admission to advanced study. Students must have completed all professional requirements, have a 2.50 cumulative GPA, a 2.75 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 and to qualify for student teaching, graduation and licensure.

Students wishing to pursue this minor must complete an application with a program counselor in the College of Education, Health, and Human Services, 304 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, Health, and Human Services, licenses the graduate to teach in the state of Ohio. Formal application for licensure must be submitted to the College of Education, Health, and Human Services, 304 White Hall.

#### Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CI * 47330</td>
<td>Reading and Writing in Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>EDPF 29525</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>29535</td>
<td>Education in a Democratic Society</td>
<td>3</td>
</tr>
<tr>
<td>ITEC 19525</td>
<td>Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>SPED 23000</td>
<td>Introduction to Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>xxxx* 42357</td>
<td>Secondary Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>xxxx* 49525</td>
<td>Inquiry into Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>course in the student’s major department</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods courses in the student’s major area***</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Area-specific courses (cohort seminars)***</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 42**

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*Course has prerequisites that must be taken prior to enrollment in minor. See the course descriptions for prerequisite information.

Students may apply to the program coordinator for permission to use special topics courses and other appropriate courses not listed in the curriculum to satisfy the cognate requirement.

Students in the College of the 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 for graduation.
*Students in foreign languages take MCLS 40657 Student Teaching. Students in TESL take ENG 41009 Student Teaching. Students in art education take ARTE 41557 Art Education: Student Teaching and Practicum. Students in music education take MUS 42357 Student Teaching and Seminar. Students in technology education take TECH 46031 Student Teaching. Students in dance education take DAN 47525 Student Teaching.

**Students in foreign languages and technology education meet this requirement through coursework in the major.

***Students in foreign languages take MCLS 40525 Inquiry into Professional Practice. Students in TESL take ENG 41525 Inquiry into Professional Practice (3). Students in art education take ARTE 41525 Art Education: Inquiry into Professional Practice. Students in dance education take PEP 49525 Inquiry into Professional Practice in Physical Education.

****Students in TESL take ENG 31007 TESL Pedagogy I and ENG 41008 TESL Pedagogy II.

*****Students in foreign languages take MCLS 40420 Foreign Languages and Culture Studies, MCLS 40654 Computers in Second Language Teaching and PSYC 40461 Psychology of Language. Students in TESL take ENG 41192 ESL/EFL Practicum and a choice of two additional designated education elective courses.

Note: PSYC 11762 General Psychology is a prerequisite for professional requirements and may be used to meet an Liberal Education Requirement in the social sciences.

Those pursuing an education minor must satisfy the professional requirements listed on pages 300-304 and be admitted to advanced study prior to student teaching.

A cumulative 2.50 GPA (2.75 for art education majors) and a 2.75 major GPA with no grade lower than a C are required for student teaching, graduation and licensure. All courses in the minor must be completed with a minimum C (2.00) grade.

The preceding sequence may be slightly different depending upon the actual major. Contact a program counselor in 304 White Hall for additional information and declaration of the minor.

The education minor is restricted to certain programs. The following majors for which teacher licensure may be obtained by combining the major with a minor in education.

College of the Arts:
Art Education: See Pages 133-134, as the professional education courses are built into the major.
Music Education: See Pages 146-147 as the professional education courses are built into the major.

College of Arts and Sciences: See Pages 234-235.

College of Education, Health, and Human Services:
Physical Education: See Pages 342-344, as the professional courses are built into the major.

College of Technology:
Technology Education: See Page 377-379. Completion of the Bachelor of Science in Technology with the technology education concentration provides licensure to teach technology to grades four-12.

The Arts
The following minors within the College of the Arts are available to all undergraduate students at Kent State University. Please see Pages 128-129 for program requirements.

Art History
Crafts
Dance*
Music*
Studio Art
Theatre

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

Business Administration
The following minors within the College of Business Administration are available to all undergraduate students at Kent State University. Please see Pages 256-263 for program requirements.

Accounting
Business
Computer Information Systems
Economics
Entrepreneurship
Finance
Human Resource Management
International Business
Management
Marketing
Military Studies

Communication and Information
The following minors within the College of Communication and Information are available to all undergraduate students at Kent State University. Please see Pages 271-273 for program requirements.
College of Arts and Sciences

Advertising
Communication Studies
Design
Electronic Media
Media Literacy
Photo Illustration
Public Relations
Visual Journalism
Web Design and Programming

Education, Health, and Human Services
The following minors within the College of Education, Health, and Human Services are available to all undergraduate students at Kent State University. Please see Pages 353-355 for program requirements.

Athletic Coaching
Community Health Education
Family, Food and Nutritional Studies
Gerontology
Hospitality Management
Human Sexuality
Recreation and Park Management
Sport Administration
Sports Medicine
Tourism Management

Technology
The following minors within the College of Technology are available to all undergraduate students at Kent State University. Please see Pages 387 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.

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.

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 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 pre-medicine, pre-osteopathy, pre-veterinary medicine and pre-dentistry are offered. These programs must be taken in conjunction with a primary major or field of concentration. They are described in this section of the Catalog under Pre-medical Programs. These programs are intended to provide specific preparation for advanced professional training in medicine. They also can 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 (B.S./M.D.). Further information about this program is given above under Integrated Life Sciences Six-Year Medical Program.

Students interested in careers related to health also should 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, Health, and Human Services.

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 generally is considered appropriate for students who wish to enter Ph.D. programs. However, superior students with the B.A. degree also may 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 Bachelor of General Studies may also be acceptable for admission to graduate studies if it includes a significant 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, Health, and Human Services, 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, Health, and Human Services. Students should note College of Education, Health, and Human Services GPA requirements.

Pre-Engineering

(Byron Anderson, Advisor, 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 advisor in the Department of Physics, the pre-engineering Web site (http://phys.kent.edu/pre-eng/) or from the college office.

Pre-Pharmacy

(Chun-Che Tsai, Advisor, Department of Chemistry)

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

- BSCI 10120, 20140, 30171 and 30518
- CHEM 10060, 10061, 10062 and 10063; or 10960 and 10961
- CHEM 30475, 30476, 30481 and 30482
- ENG 11011, 21011
- 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 to which they plan to apply and attend. Students should immediately consult the prepharmacy advisor in the Department of Chemistry or with the college office upon entering the university.

Pre-Library Science

(Rhonda S. Filipan, 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 usually is 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.