Kent State University

Click on the program name within the degree requirements to go to the course descriptions.

COLLEGE OF ARTS AND SCIENCES ............................................. 116

Mission ................................................................. 117
Liberal Arts as a Career Base ........................................... 117
Organization ............................................................ 117
Description of Academic Programs ................................. 118
Academic Advising ....................................................... 122
General Information ..................................................... 124
English Composition, Mathematics and Logic,
Foreign Language ....................................................... 126
Limitations on Applicability of Credits ............................. 128
General Graduation Requirements ................................... 129
Degree Program Requirements, Bachelor of Arts ............... 130
  American Sign Language ........................................... 131
  American Studies .................................................... 131
  Anthropology ......................................................... 132
  Applied Conflict Management ...................................... 133
  Biology ................................................................. 134
  Chemistry .............................................................. 134
  Classics .............................................................. 134
  Earth Science ........................................................ 135
  Economics ............................................................ 135
  English ................................................................. 136
  Ethnic Heritage ...................................................... 136
  French ................................................................. 137
  Geography ............................................................ 137
  Geology ............................................................... 138
  German ............................................................... 138
  History ............................................................... 139
  Individualized Major ................................................ 139
  International Relations .............................................. 139
  Justice Studies ....................................................... 140
  Latin ................................................................. 141
  Latin American Studies ............................................ 141
  Mathematics ........................................................ 142
  Pan-African Studies ................................................ 142
  Paralegal Studies .................................................... 143
  Philosophy ........................................................... 143
  Physics ............................................................... 144
  Political Science .................................................... 144
  Psychology ........................................................... 145
  Russian ............................................................... 145
  Sociology ............................................................ 146
  Soviet and East European Studies ................................... 146
  Spanish ............................................................... 146
  Teaching English as a Second Language ........................ 147
Degree Program Requirements, Bachelor of Science .......... 147
  Anthropology ......................................................... 149
  Applied Mathematics ............................................... 150
  Biology ............................................................... 151
  Botany ............................................................... 152
  Chemistry ........................................................... 153
  Computer Science ................................................... 153
  Conservation ........................................................ 154
  French Translation .................................................. 154
  Geology .............................................................. 155
  German Translation .................................................. 155
  Mathematics ......................................................... 156
  Physics ............................................................... 156
  Russian Translation .................................................. 158
  Spanish Translation .................................................. 158
  Zoology .............................................................. 159
  Three-Plus-One Program, Medical Technology ................ 160
  Premedical Programs ............................................... 161
  Predentistry ........................................................ 161
  Premedicine, Preosteopathy, Preveterinary Medicine .......... 161
  Bachelor of General Studies ...................................... 162
  Integrated Life Sciences Six Year Medical Program .......... 163
  Intercollege/School Programs ...................................... 165
  Biotechnology ....................................................... 165
  Minor Program Requirements ...................................... 166
  African Studies ..................................................... 166
  American Sign Language ........................................... 167
  American Studies ................................................... 167
  Ancient, Medieval and Renaissance Studies .................... 168
  Anthropology ....................................................... 169
  Applied Conflict Management ..................................... 169
  Applied Mathematics ............................................... 169
  Asian Studies ....................................................... 170
  Biological Sciences ................................................ 170
  British Studies ..................................................... 171
  Business French .................................................... 171
  Business German ................................................... 171
  Business Russian ................................................... 171
  Business Spanish ................................................... 172
  Cartography ........................................................ 172
  Chemistry ........................................................... 172
  Classics ............................................................. 173
  Climatology ........................................................ 173
  Comparative Literature ............................................. 173
  Computer Science ................................................... 174
  Economics ........................................................... 175
  English .............................................................. 175
  French ............................................................... 175
  Geography .......................................................... 175
  Geology ............................................................. 175
  German .............................................................. 176
  German Studies ...................................................... 176
  Greek ............................................................... 176
  Health-Care Ethics .................................................. 176
  Hellenic Studies .................................................... 177
History ......................................................... 177
Jewish Studies ........................................ 177
Justice Studies ........................................ 178
Latin ....................................................... 178
Latin American Studies .............................. 178
Lesbian, Gay, Bisexual and Transgendered Studies ..... 179
Lithuanian Studies ................................ 179
Mathematics .......................................... 180
North Atlantic Security Studies ................... 180
Pan-African Studies ................................... 181
Paralegal Studies ....................................... 181
Philosophy ............................................... 181
Physics ................................................... 182
Political Science ....................................... 182
Pre-Law ................................................... 182
Psychology ............................................ 183
Religion Studies ......................................... 183
Romanian Studies ...................................... 184
Russian .................................................. 185
Russian Studies ........................................ 185
Sociology ............................................... 185
Spanish .................................................. 185
Urban Studies and Planning ......................... 185
Web Design and Programming ..................... 186
Women’s Studies ....................................... 186
Writing Minor .......................................... 187
Minors in Other Colleges/Schools ................. 187
Education Minor ....................................... 187
THE COLLEGE OF ARTS AND SCIENCES
Advising Offices are Located in:

105 Bowman Hall
330-672-2062
http://as.kent.edu
COLLEGE OF ARTS AND SCIENCES

THE MISSION OF THE COLLEGE

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

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

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

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

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

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

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

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

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

**ACADEMIC PROGRAMS**

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

The College of Arts and Sciences also offers premajors in three areas: humanities, social sciences, and natural sciences and math. Students may be admitted to the College of Arts and Sciences by declaring a specific major, as described below. Or, students may select one of the available premajors, as described on Pages 122-123.

**Bachelor of Arts**

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

The B.A. 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 130.

**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 possi-
ble through any one traditional field.

Like the departmental majors, the interdisciplinary majors may be combined with a second major, a minor or a separate degree. With the exception of earth science and the individualized major, the college’s interdisciplinary majors require that students combine social and cultural study. For this reason, the interdisciplinary majors combine particularly well with majors or minors in the humanities, foreign languages and the social sciences.

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

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

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

- American Studies
- The Individualized Major
- Applied Conflict Management
- International Relations
- Classics
- Latin American Studies
- Earth Science
- Paralegal Studies
- Ethnic Heritage
- 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 20 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 149.

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 satisfactory completion of this professional training, the B.S. degree from the College of Arts and Sciences at Kent State University is awarded.
Three-Plus-One programs are designed for students with a well-defined, specific, professional career goal. Currently, the College of Arts and Sciences offers a Three-Plus-One program in medical technology. Because of the intensive, professional focus of these programs, students pursuing them should work closely with their faculty advisors. Students who are interested in any of these programs should consult the Department of Biological Sciences, 256 Cunningham Hall, for further information.

The program requirements for the Three-Plus-One programs offered under the B.S. program in the College of Arts and Sciences are listed beginning on Page 160.

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

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

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

The program requirements for the premedical programs in the College of Arts and Sciences are listed beginning on Page 161.

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 program 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 Sciences 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 163.

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

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

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

The B.G.S. may not be combined with a regular major or field of concentration. However, the premedical major may be taken as part of a B.G.S. In addition, any of the minors listed beginning on Page 166 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 162. 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 spe-
cialization 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 166.

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.

Certain interdisciplinary minors may be incorporated as the core studies emphasis area within the ethnic heritage interdisciplinary major in the Bachelor of Arts program.
Interdisciplinary minors in the College of Arts and Sciences are:

- African Studies
- American Studies
- Ancient, Medieval and Renaissance Studies
- Asian Studies
- British Studies
- Cartography
- Classics
- Climatology
- Comparative Literature
- 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 Business Administration, the College of Communication and Information, the College of Education, Health and Human Services, and the College of Fine and Professional Arts can be found beginning on Page 188. 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.

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

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

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

- Humanities
  - English
  - History
  - Modern and Classical Languages
  - Pan-African Studies
  - Philosophy
- Social Sciences
  - Anthropology
  - Economics
  - Geography
  - Justice Studies
  - Political Science
  - Psychology
  - Sociology
- Natural Sciences and Math
  - Biological Sciences
  - Chemistry
  - Computer Science
Each of the three arts and sciences areas—humanities, social sciences, and natural sciences and math—offers students opportunities for developing strong critical thinking and communication skills, qualities valued by all prospective employers. These qualities provide the individual with the flexibility and adaptability needed for new and changing professional responsibilities. These skills are important, too, when a departmental major leads to further study in a research, education or law school program.

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

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

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

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

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

Students may elect a College of Arts and Sciences premajor in one of several ways: on the Kent State application form, while attending the PASS program or by meeting with an advisor in the College of Arts and Sciences office, 105 Bowman Hall. Advisors in the college office may be seen on a walk-in basis, Monday through Friday, 8:30 a.m. to 4:30 p.m. The college office is open for evening advising on Tuesdays and Wednesdays until 7 p.m.

**Student Success**

The Undergraduate Catalog is the authoritative advising document for academic programs at Kent State University. In addition to being familiar with this chapter that focuses on arts and sciences programs, students in the College of Arts and Sciences are expected to familiarize themselves with the general university regulations and procedures described in the preceding chapter titled General Information. Further general information about all programs offered through the College of Arts and Sciences is available in the college office (105 Bowman Hall). Students who do not complete their requirements in a timely fashion may find their graduation delayed. For these reasons, students are urged to check their progress regularly with their major faculty 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 interdisciplinary programs. These coordinators can provide information about requirements, programs and other matters pertaining to the academic departments.

Students who have chosen a major in the College of Arts and Sciences must visit the college office to formally declare that major. All students in the College of Arts and Sciences are expected to formally declare a major no later than the beginning of their junior year (60 semester hours). Students are encouraged to declare a major as early as possible. After this formal declaration, students are assigned faculty 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.

Advising for Minors

Although minors are not required in the College of Arts and Sciences, undergraduate students may include one or more minors in their academic program. All of the minor programs available to arts and sciences students are listed beginning on Page 166. Some of these programs also award certificates of completion. Information about these programs is available from the college office. Minors as well as majors must be formally declared in the college office.

Students who elect an interdisciplinary minor should seek advice from the coordinator of that interdisciplinary program. Students who choose a departmental minor should seek advice from the advising coordinator of that department. Students pursuing a degree in arts and sciences who choose a minor in another college of the university (see the section Minors in Other Colleges) should first visit the office of the College of Arts and Sciences for information; they will then be referred to the appropriate college for further advice. In any case, students who elect minors should consult with their major 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 below titled Degree Program Requirements. During the freshman and sophomore years, most of the courses students take will be at the lower-division level. Lower-division courses are numbered 10000-29999 and generally presume that the students have little or no specific background in the discipline. The principle purpose of the lower-division coursework is to lay the foundation of the students’ general education and to introduce students to the field of specialization. Transfer students admitted to the college with 64 or more semester hours of credit should complete all remaining freshman and sophomore requirements within one academic year following their first registration.

Most undergraduate specialization is pursued through upper-division coursework. Upper-division courses are numbered 30000-49999. These courses require both greater familiarity with the subject matter and greater intellectual sophistication. Students are required to have completed the appropriate prerequisites in specified lower-division courses before entering upper-division courses. All degree programs in the College of Arts and Sciences require the successful completion of at least 42 upper-division hours of coursework.
Double Majors/Dual Degrees
A program that combines two major fields of study in the same
degree program is referred to as a double major program. An
example of a double major program would be the combination of
the English and history majors in the B.A. program in arts and sci-
ences. Completion of a double major requires that students com-
plete a minimum of 121 hours.

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

The College of Arts and Sciences 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 pos-
sess 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' intel-
lectual 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 cal-
endar), which by their nature are such that students may not be
expected to complete course requirements within the term of regis-
tration. 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 pro-
grams. Such study may be pursued through the university’s own
semester programs in England, Italy and Switzerland. Additionally,
there are exchange programs available in France, Israel, Japan,
Northern Ireland, Nova Scotia, Spain and Russia. Students may
also study through similar programs offered by other institutions.
Information about study abroad may be obtained from the Center
for International and Comparative Programs, 124 Bowman Hall.

Students may also study in Washington, D.C., and Columbus, Ohio,
through the Department of Political Science. Field study at locations
outside the university also is available through several other depart-
ments. 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. Stu-
dents 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 prereq-
usites. In such a case, the students should be prepared to face
possible difficulties in the course.
Sequential Coursework
In certain subject fields, such as mathematical sciences, foreign languages, English composition and some of the basic natural sciences, knowledge is sequential or cumulative at the lower levels of study, and courses are structured in clear sequences. Students who already have received credit for, or established proficiency at, one level in such a sequence of courses may not receive academic credit counting toward graduation for a prior course in the sequence or for a course in a lower sequence.

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

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

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

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

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

International Students
Students 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 10002, College English II (the concluding course in the basic College English 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 10002 in order to complete the College English requirement.

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

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

Students with previous credit in mathematics earned at another institution, through CLEP, or through the Advanced Placement Program, may enter the next higher mathematics course in the sequence required in their majors.
In some cases, students may be given a mathematics placement examination 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 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.

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

*For definition of the terms “native language” and “first language” above, see Page 32, under Foreign Languages.

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

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

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 coursework in the native 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.

*For definition of the terms “native language” and “first language” above, see Page 32, under Foreign Languages.

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.
Progress Toward Fulfillment
Arts and sciences students are required to begin meeting the foreign language requirement by their third semester of full-time enrollment (that is, no later than upon completing 30 semester hours) and are required to continue to enroll for foreign language courses until the requirement has been completed. Students who transfer to the College of Arts and Sciences from other universities or from other programs at Kent State University with sophomore status are required to begin meeting the foreign language requirement by their second semester of full-time enrollment in the college and must continue to enroll for foreign language courses until the requirement has been completed. Students who fail to meet these stipulations risk unnecessary delays in the completion of their degree programs. The stipulation that arts and sciences students begin meeting the foreign language requirement by their third semester of full-time study applies not only to students with declared majors but also to undeclared students. This includes those students seeking admission to selective programs in other colleges who do not achieve admission to the selective program at the time they achieve sophomore status.

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

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

*For definition of the terms “native language” and “first language” above, see Page 32, under Foreign Languages.

Pass-Fail Option
A maximum of 12 hours of pass-fail credit (Y and Z grades) may be attempted. Courses graded S/U are not counted in this 12-hour maximum. All courses listed under the university’s LERs or College General Requirements are excluded from the pass-fail option. Courses in the major, field of concentration and minor 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 75 of this Catalog.

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

Physical Education and ROTC
No more than four hours of physical education activity (PEB) courses, lower-division ROTC (ASTU and MSCI) coursework or of the two combined may be counted toward the 121 hours required for graduation. A maximum of 12 upper-division hours in ROTC (ASTU and MSCI) may be counted toward the 121 hours required for graduation by students actively pursuing the university’s Army and Air Force ROTC programs. These 12 upper-division hours may be counted in addition to the four lower-division hours permitted for ROTC/PEB courses.

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

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

• Internships, Field Placements, Practica
Credit earned in internships, field placements, practica or courses with a similar experiential/applied nature is included within this 16-hour limitation. Such coursework may not be applied toward the General Requirements of the college’s degree programs. The year of clinical training required in the medical technology program, similar training in other Three-Plus-One programs, student teaching and other experiential components of the education minor, and study-abroad programs are exempted from this limitation.
Individual Study
Credit earned in individual study and research coursework is included within this 16-hour limitation. Individual study and research credits may not be applied to major, field of concentration or minor program requirements unless specifically and formally allowed by the department responsible for the major, field of concentration or minor.

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

GENERAL GRADUATION REQUIREMENTS
1. Total Hour Requirement
A minimum of 121 hours of applicable coursework must be successfully completed to qualify for graduation. Credit earned in certain developmental coursework (MATH 10004, US 10003 and US 10006) and hours in excess of the restrictions listed above under Limitations on Applicability of Credit do not count toward the 121 required hours. Depending upon the students’ major and high school preparation, students may need to complete additional hours of prerequisite coursework. There are a limited 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 and Diversity Requirements as well as any conditional coursework prescribed upon admission, University Orientation, and additional coursework in mathematics/logic, foreign language, social sciences and basic sciences. Detailed discussions of the General Requirements for each of the degree programs offered in the college are listed below in the section Degree Program Requirements.

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 68 and 89-91 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 and Diversity Requirements (see Pages 81-87) are included in the College of Arts and Sciences’ General Requirements. Students should consult the college office if they have questions concerning the applicability of specific coursework to the General Requirements. None of the courses listed as part of the college’s General Requirements may be taken pass-fail.

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

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

I. Composition ............................................................... 6
   ENG 10001 College English I (3)
   10002 College English II (3)
   Placement by ACT/SAT English composition scores; students may be required to take ENG 10000.

II. Mathematics, Logic and Foreign Languages
   One foreign language or American Sign Language or equivalent in proficiency .................................. 14
   The requirement may be fulfilled by:
   A. Passing the first four semesters of any foreign language or American Sign Language (students who receive advanced placement will meet the requirement by passing the fourth semester of a language).
   B. Placement in courses beyond intermediate II level on the placement examination administered by Academic Testing Services. Consult with the language departments for further information.
   C. Passing a course beyond intermediate II level.
   D. Receiving credit for intermediate II or beyond from CBE, CLEP or transfer.
   Note: The requirement may be met with fewer than 14 hours if students receive advanced placement. In this case, students are required to complete the remaining hours with “free” electives.

Mathematics or Logic ..................................................... 3-5
   A student must pass one of the courses listed below or establish proficiency.
   MATH 10041, Elementary Probability and Statistics (3)
   11008, Explorations in Modern Mathematics (3)
   11011, College Algebra (4)
   11012, Intuitive Calculus (3)
   12001, Algebra and Trigonometry (4)
   12002, Analytic Geometry and Calculus I (5)
   PHIL 11009, Principles of Thinking (3)
   21002, Intro. to Formal Logic (3)
   31045, Formal Logic (3)

Restrictions:
   Since MATH 12001 covers the same content as 11011 plus 11022, credit is not allowed for both 12001 and 11011 or for both 12001 and 11022.
   Note: MATH 14001 and 14002 may be used to meet the requirement provided both courses were completed while the student was enrolled in another college.

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

   Restrictions:
   No coursework from the major department may be counted toward the Humanities and Fine Arts.
   Note: Any course marked with a “D” that is taken to satisfy the Humanities and Fine Arts will also satisfy a Diversity Requirement provided that course is not in the major department. Diversity courses marked additionally with an asterisk (*) have a domestic perspective.

   Humanities: Arts and Sciences
   CLAS D21404, The Greek Achievement (3)
   D21405, The Roman Achievement (3)
   ENG 21054, Intro. to Shakespeare (3)
   22071, Great Books I (3)
   22072, Great Books II (3)
   22073, Major Modern Writers (3)
   HIST D11050, History of Civilization I (3)
   D11051, History of Civilization II (3)
   D*12070, History of the U.S.: The Formative Period (3)
   D*12071, History of the U.S.: The Modern Period (3)
   PAS D23001, Black Experience I: Beginnings to 1865 (3)
   D*23002, Black Experience II: 1865 to Present (3)
   PHIL D11001, Intro. to Philosophy (3)
   D21001, Intro. to Ethics (3)
   D21020, Comp. Religious Thought I (3)
   D21021, Comp. Religious Thought II (3)

   Humanities: Fine and Professional Arts
   CDMM 15000, Introduction to Human Communication (3)
   D*26000, Criticism of Public Discourse (3)
   JMC D*20001, Media, Power and Culture (3)

   Fine Arts: Fine and Professional Arts
   ARCH 10001, Understanding Architecture (3)
   10011, Survey of Architectural History I (3)
10012, Survey of Architectural History II (3)
ARTH 12001, Art Survey (3)
22006, Art History I: Ancient and Medieval Art (3)
22007, Art History II: Renaissance to Modern Art (3)
D22020, Art of Africa, Oceania, and the Americas (3)
DAN D27076, Dance as an Art Form (3)
MUS 22111, The Understanding of Music (3)
D22121, Music as a World Phenomenon (3)
THEA D11000, The Art of the Theatre (3)

IV. Social Sciences ......................................................... 12

Required: Coursework must be selected from at least two curricular areas (e.g., ANTH, ECON, etc.). Twelve hours are required in the Social Sciences. At least 9 hours must be selected from the courses listed below. The remaining 3 hours may optionally be selected from courses in JUS, ECON, GEOG, POL, PSYC, SOC and (cultural) ANTH or from selected courses in CACM and PAS.

Restrictions: No coursework from the major department may be counted toward the 9 hours that must be selected from the courses listed below. Note: Any course marked with a “D” that is taken to satisfy the Social Sciences will also satisfy a Diversity Requirement provided that course is not in the student’s major department. Diversity courses marked additionally with an asterisk (*) have a domestics perspective.

ANTH D18210, Intro. to Cultural Anthropology (3)
18420, Introduction to Archaeology (3)
CACM 11001, Introduction to Conflict Management (3)
ECON 22060, Principles of Microeconomics (3)
22061, Principles of Macroeconomics (3)
GEOG 10160, Intro. to Geography (3)
D17063, World Geography (3)
17064, Geography of U.S. and Canada (3)
JUS 26704, Law and Society (3)
POL D10004, Comparative Politics (3)
D*10100, American Politics (3)
D*10301, Diversity in American Public Policy (3)
D10500, World Politics (3)
PSYC 11762, General Psychology (3)
20651, Child Psychology (3)
21211, Psychology of Adjustment (3)
D*22221, Multicultural Psychology (3)
SOC D*12050, Intro. to Sociology (3)
D22778, Social Problems (3)

V. Basic Sciences ........................................................... 9

Required: Nine hours are required in the Basic Sciences. At least 6 hours must be selected from the courses listed below or from beginning “major sequence” courses in (biological) ANTH (ANTH 38630), BSCI (BSCI 10110, 10120), CHEM (CHEM 10060, 10061, 10062, 10063, 10960, 10961) and PHY (PHY 23101, 23102). The remaining 3 hours may optionally be selected from other courses in BSCI, CHEM, GEOG and PHY.

Restrictions: No more than two courses from any curricular area (not counting laboratories) may be counted toward the Basic Sciences. No coursework from the major department may be counted toward the 6 hours that must be selected from the courses listed below. Credit toward the Basic Sciences is not allowed for:

• both the PSCI 11660 series and either the CHEM 10050 series, the CHEM 10060 series or the PHY 13001 series.
• both the CHEM 10050 series and the CHEM 10060 series.
• more than one of the PHY 13001, PHY 13011 or PHY 23101 series.
• combinations of BSCI 10001, the BSCI 10110 series and/or the BSCI 20020 series.

ANTH 18630, Human Evolution (3)
BSCI 10001, Human Biology (3)
10002, Ecology, Evolution and Society (3)
20020, Biological Structure and Function (5)
CHEM 10300, Chemistry in Our World (3)
10050, Fundamentals of Chemistry (3)
10052, Intro. to Organic Chemistry (2)
10053, Organic and Inorganic Lab (1)
10054, General and Elementary Organic Chemistry (5)
CS 10051, Introduction to Computer Science (4)
GEOG 11040, Earth Dynamics (3)
11041, Earth Dynamics Lab (1)
11042, Earth History (3)
11043, Earth History Lab (1)
21062, Environmental Geology (3)
21080, Oceanography (3)
PHY 11030, Seven Ideas that Shook the Universe (3)
13001, General College Physics I (5)
13002, General College Physics II (5)
13011, College Physics I (3)
13012, College Physics II (3)
21040, Physics in Entertainment and the Arts
or 24002, Astronomy (3)
21430, Frontiers in Astronomy (3)
PSCI 11660, Physical Science (3)
11661, Physical Science (3)

VI. Diversity ................................................................. 0-3

Required: two courses

The selection of these two courses is subject to the following constraints.

1.) One course must be selected from the courses marked with a “D” in section III or IV above. This course may not be from the major department.
2.) The second course may be selected from either the courses marked with a “D” in section III or IV above or from the full list of diversity courses on Pages 85-87. This course may be from the major department, but if so it might not apply toward the Humanities, Fine Arts or Social Sciences.

3.) One of the above two courses must address domestic (U.S.) issues. These courses are marked with an asterisk (*). The other course must address global issues. These courses are not marked with an asterisk (*).

VII. Us 10001, University Orientation ........................................ 1

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 118 - 119 for lists of departmental and interdisciplinary majors.

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.

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
39201, Advanced American Sign Language I ....................... 3
39202, Advanced American Sign Language II ..................... 3
49092, Practicum: Deaf Residential School ........................1
49096, Individual Investigation: Curriculum and Practices ........3
49096, Individual Investigation: Advanced ASL Proficiency ..........3
49101, Deaf Culture and Community .................................. 3
49105, Signed English and Manually Coded English Systems ..........3
49108, ASL Linguistics and Usage ..................................... 3
49309, Introduction to Deaf Studies .................................... 3
ECED 30123, Language and Literacy .................................... 3
SPED 43310, Language Instruction for Deaf/Hard of Hearing Students .......... 3
43392, Practicum: Deaf Education .................................... 1
SP&A 43600, Fundamentals of Educational Audiology ................3

TOTAL 49

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 Diversity Requirement), SOC 12050 (satisfies the domestic 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.

American Studies

(Shirley Wajda, 305 G Bowman Hall)

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

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.

AMST 10001, Introduction to American Studies ..................... 3
40197, Senior Colloquium ............................................. 3
Choose from English: .................................................. 9
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, Special Topics in Ethnic Literature of the U.S. (3)
Choose from History: .................................................. 9
HIST 31070, History of American Business Enterprise (3)
31078, African American History (3)
41056, History of Colonial America: 1492-1714 (3)
41057, Eighteenth-Century America: 1714-1789 (3)
41069, Recent America: The United States, 1929-Present (3)
41070, American Social and Intellectual History, 1790-1876 (3)
41071, American Social and Intellectual History, 1876-Present (3)
Choose from Humanities: ........................... 12-15

ARTH 42056, American Art: 1607-1860 (3)
42057, American Art and Architecture: 1860-1940 (3)
42058, American Film, Photography, Art and Ideas (3)
JMC 40008, History of American Mass Communication (3)
MUS 42131, America's Music (3)
42161, History of Jazz (3)
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)
PHIL 31010, Twentieth-Century Philosophy (3)
31020, American Philosophy (3)
41060, Pragmatism and Beyond (3)
WMST 30000, Colloquium in Women's Studies (3)
Choose from Social Sciences: ........................... 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)

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

ANTH 48212, Kinship and Social Organization (3)
48214, Politics of Culture (3)
ANTH 38480, Archaeological Analysis (3)
48225, Archaeology of Death (3)
48425, Prehistory: Mesoamerica (3)
48440, Prehistory: Ohio (3)
48450, States and Empires (3)
ANTH 38680, Primate Societies (3)
48810, Human Paleontology (3)
48820, Human Musculoskeletal System (3)
48830, Human Behavioral Ecology and Evolution (3)
48835, Primate Ecology and Conservation (3)
48840, Natural Selection in Perspective (3)
ANTH 38240, Culture and Personality (3)
48250, Culture and Curing (3)
46260, Culture Conflict (3)
48270, Native Peoples of North America (3)
48630, Pacific Island Cultures (3)

TOTAL 33

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 law. Students are provided with opportunities to utilize and enhance their knowledge of conflict management as they engage in research in the field or work as interns with professionals in the courts, schools, businesses, government and human services.
### College of Arts and Sciences

#### Core courses:
- 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 one of the following 30000 level courses: ............. 3
- CACM 32020, Strategic Planning (3)
- 34040, Negotiation (3)
- 35050, Public Sector Dispute Resolution (3)

#### Electives: ........................................... 9-18
An additional 9-18 hours from one of the following five concentration areas, chosen in consultation with an advisor from CACM:
1. Community Education and Training
2. Human Needs and Human Services
3. Public Policy
4. Social and Political Change
5. General Concentration in Conflict Management

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

**TOTAL** 48

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

#### Biology

(See also B.S. program)

Also see “Note” under Biological Sciences entry in Course Descriptions section of this Catalog.

**Core Courses**
- 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, 10061, 10062, 10063, General Chem. I, II and Labs .................. 10
- MATH 12001, Algebra and Trigonometry ................. 4

**Biological Sciences electives ......................... 16**
Select 16 hours from any combination of BSCI courses. See the Course Descriptions section in the back of this Catalog or 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** 45

#### Chemistry

(See also B.S. program)

**CHEM**
- 30100, Aqueous Equilibrium ......................... 2
- 30101, Quantitative Analysis ......................... 2
- 30102, Solution Chemistry Lab ...................... 2
- 30284, Intro. Biological Chem ....................... 4
- 30475, 30476, Organic Chemistry Lab .............. 4
- 40361, Intermediate Inorganic Chem ................. 2
- 40567, Basic Concepts of Physical Chem ............ 4
- MATH 12001, Algebra and Trigonometry .............. 4
- 12002, Analytic Geometry and Calculus I .......... 5
- PHY 13001, 13002, General College Physics I, II ........ 10

**Choose one from: .................................. 6**
- CHEM 20481, 20482, Basic Organic Chemistry (6)
- 30481, 30482, Organic Chemistry (6)

**Choose Group One or Group Two: .................. 10**
**Group One**
- CHEM 10960, 10961, Honors Gen. Chemistry (5 each)

**Group Two**
- CHEM 10960, 10961, Honors Gen. Chemistry (5 each)

**TOTAL** 55

#### Classics

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

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

**Latin**

Prerequisite: Elementary II (LAT 16202) or equivalent skills.

- GRE 14201, 14202, Elem. Greek I, II ............................. 8
- LAT 26201, 26202, Inter. Latin I, II ............................ 6

**Choose one of:** ........................................................................ 3
- LAT 36170, Cicero (3)
- 36171, Vergil (3)

**Greek**

Prerequisite: Elementary II (GRE 14202) or equivalent skills.

- GRE 24201, 24202, Intermediate Classical Greek I and II: Readings ................................. 6
- LAT 16201, 16202, Elem. Latin I, II ............................. 8

**Choose one of:** ........................................................................ 3
- GRE 34370, Plato Apology and Phaedo (3)
- 34371, Homer (3)

**Both emphases:**

- Select 18 hours from the following: ........................................ 18
  - 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)
  - CLAS/HIST 41006, Roman History (3)
  - HIST 41003, History of Ancient Greece (3)

**Total** 35

**Electives from the following courses are strongly recommended:**

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

**Earth Science**

*(Department of Geology)*

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

**Earth Science Core:**

- GEOL 11040, Earth Dynamics ............................... 3
- 11041, Earth Dynamics Lab .............................. 1
- 11042, Earth History .................................... 3
- 11043, Earth History Lab .................................. 1
- 21080, Oceanography .................................... 3
- 23063, Mineralogy ......................................... 4
- 31070, Petrology ........................................... 4
- 32066, Geomorphology .................................... 4
- 34061, Invertebrate Paleontology .................... 4

Plus 3 elective hours .................................................. 3

- GEOG 31062, Fundamentals of Meteorology ............... 3
- 31064, Principles of Climatology ......................... 3
- 41073, Conservation—Natural Resources .................. 3
- 41082, Geography of Soils .................................. 3

Plus 3 upper-division elective hours ................................ 3

**in geology or geography (GIS recommended).**

- CHEM 10060, General Chemistry ......................... 4
- 10062, General Chemistry Lab .......................... 1
- MATH 12001, Algebra and Trigonometry ................. 4
- PHY 24001, Astronomy .................................... 3

**Choose one from:** ......................................................... 4

- BSCI 10110, Biological Diversity (4)
- 20560, Invertebrate Zoology (4)

**Choose one from:** ......................................................... 5

- PHY 13001, General College Physics I (5)
- 23101, General University Physics (5)

**Total** 66

**Economics**

- ECON 22060, Principles of Microeconomics .............. 3
- 22061, Principles of Macroeconomics .................. 3
- 32040, Intermed. Microeconomic Theory and Applications .............................................. 3
- 32041, Intermed. Macroeconomic Theory and Policy ... 3
- 32050, Applied Econometrics ............................ 3
- 42191, Senior Seminar in Economics .................... 3
- M&IS 24056, Fundamentals of Business Statistics .... 3
Electives ........................................ 12

12 hours of electives from 30000-40000 level economics courses, 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.

Choose one of the following sequences: ............. 7-9

MATH 11011, College Algebra (4)
11012, Intuitive Calculus (3)
or
12001, Algebra and Trigonometry (4)
12002, Analytic Geometry and Calculus (5)

TOTAL 40-42

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

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

English

Core courses (required) ................................. 9

ENG 25001, 25002, Literature in English I, II ............... 6
30001, Introduction to English Studies .................. 3

E Electives ........................................ 9

Distribution requirements ............................. 18

Historical courses:

Choose two courses .................................... 6

ENG 33001, American Literature to 1865 (3)
33002, American Literature from 1865 to 1945 (3)
33003, American Literature from 1945 to the Present (3)
34001, British Literature to 1500 (3)
34002, British Literature from 1500 to 1660 (3)
34003, British Literature from 1660 to 1800 (3)
34004, British Literature from 1800 to 1900 (3)
34005, British and Irish Literature from 1900 - Present (3)
34055, Shakespeare (3)
34065, Chaucer (3)
34095, Topics: Major Author Studies (3)
39095 Topics in Literary History (3)

Genre Studies, Cultural Studies, Literary Theory:

Choose two courses .................................... 6

ENG 33011, African American Literature (3)
34011, World Literature in English (3)
34021, Women’s Literature (3)
34031, Short Story (3)
35101, Literature and Other Disciplines (3)
35201, The Bible as Literature (3)
36001, Literary Criticism (3)
39195, Topics in Drama (3)
39295, Topics in Poetry (3)
39395, Topics in Fiction (3)
39995, Topics in Cultural Studies (3)

Writing and Language Studies

Choose two courses .................................... 6

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

ENG 20002, Introduction to Technical Writing (3)
20003, Intermediate Exposition (3)
20021, Introduction to Creative Writing (3)
30064, Argumentative Prose (3)
30065, Expository Prose (3)
30067, Writer’s Workshop in Fiction I (3)
30068, Writer’s Workshop in Fiction II (3)
30069, Writer’s Workshop in Poetry I (3)
30070, Writer’s Workshop in Poetry II (3)
31001, Fund. of English Grammar (3)
31002, History of English Language (3)
31003, Introduction to Linguistics (3)
39895, Topics in Rhetoric, Composition and Writing (3)

Senior Seminar ....................................... 3

ENG 49091, Senior Seminar (3)

TOTAL 39

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

Ethnic Heritage

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

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

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

(See also B.S./Translation Program)

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

Prerequisite: Intermediate II (FR 23202) or equivalent skills.

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

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

French culture and literature courses at the 30000-40000 level: 6
French electives at the 40000 level: 6

**TOTAL 33**

**Geography**

**Core Requirements**

GEOG D17063, World Geography: 3

D 17064, Geography of the U.S. and Canada: 3

21062, Physical Geography: 3

39002, Statistical Methods in Geography: 3

39161, Introduction to Cartography: 3

39162, Introduction to Cartography Lab: 1

40191, Seminar in Geography: 3

One upper-division regional course: 3

plus 21 hours in one of the three concentrations: 21

**TOTAL 43**

**Environmental Geography**

Choose 12 hours: 12

At least one of the following courses must be at the 40000 level.

GEOG 31062, Fundamentals of Meteorology (3)

31064, Principles of Climatology (3)

31080, Geography of Wine (3)

41050, Polar & Alpine Environments (3)

41062, Advanced Physical Geography (3)
College of Arts and Sciences

41073, Conservation of Natural Resources (3)
41074, Resource Geography (3)
41082, Geography of Soils (3)
41265, Urban Climatology (3)

Other appropriate courses may also count in this concentration.

**Plus the following courses** .......................... 9
GEOG 49070, Geographic Information Science .................. 3
One other course from geographical information sciences ...... 3
One course from social geography concentration ................. 3

**Social Geography**

**Choose 12 hours** ............................................ 12
At least one of the following courses must be at the 40000 level.
GEOG 31070, Population and Environment (3)
D 32061, Cultural Geography (3)
D 32080, Politics and Place (3)
34070, Economic Geography (3)
35065, Geography of Transportation and Spatial interaction (3)
D 36065, Cities and Urbanization (3)
42052, Medical Geography (3)
42064, Historical Geography of the U.S. & Canada (3)
44010, Advanced Economic Geography (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.

**Plus the following courses** .......................... 9
Two courses from geographical information sciences .............. 6
One course selected from environmental geography .............. 3

**Geographic Information**

**Choose 12 hours** ............................................ 12
At least one of the following courses must be at the 40000 level.
GEOG 44070, Spatial Analysis & Location Theory (3)
49006, Spatial Programming (3)
49070, Geographic Information Science (3)
49080, Advanced Geographic Information Science (3)
49162, Advanced Cartography (3)
49163, Advanced Cartography Lab (1)
49165, GeoMapping (3)
49210, Earth Imagery (3)
49211, Earth Imagery Lab (1)
49230, Remote Sensing (3)

Other appropriate courses may also count in this concentration.

**Plus the following courses** .......................... 9
One course from social geography concentration ................. 3

One course from environmental geography concentration ........ 3

**Geology**

(See also B.S. program)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 11040, Earth Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>11041, Earth Dynamics Lab</td>
<td>1</td>
</tr>
<tr>
<td>11042, Earth History</td>
<td>3</td>
</tr>
<tr>
<td>11043, Earth History Lab</td>
<td>1</td>
</tr>
<tr>
<td>23063, Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>31070, Petrology</td>
<td>4</td>
</tr>
<tr>
<td>31080, Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>32066, Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>34061, Invertebrate Paleontology</td>
<td>4</td>
</tr>
<tr>
<td>44070, Principles of Stratigraphy</td>
<td>4</td>
</tr>
<tr>
<td>plus 3 upper-division hours</td>
<td>3</td>
</tr>
<tr>
<td>MATH 12001, Algebra and Trigonometry</td>
<td>4</td>
</tr>
</tbody>
</table>

**Choose one from:** ........................................ 4
BSCI 10110, Biological Diversity (4)
20560, Invertebrate Zoology (4)
CHEM 10060, 10062, Gen. Chemistry I and Lab ................. 5

**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 are also suggested in fulfilling elective hours.

**German**

(See also B.S./Translation Program)

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

**Prerequisite:** Intermediate II (GER 21202) or equivalent skills.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER 31201, Intensive German Grammar</td>
<td>3</td>
</tr>
<tr>
<td>31211, Composition and Conversation</td>
<td>3</td>
</tr>
<tr>
<td>31215, German Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>31303, Introduction to German Literature</td>
<td>3</td>
</tr>
<tr>
<td>31421, German Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>
41211, Advanced German Composition and Conversation .......................... 3
41216, Contemporary German Culture ........................................... 3
GER literature or culture electives at 30000-40000 level .............. 6
MCLS 21417, Multiculturalism in Today’s Germany ................. 3
TOTAL 30

Greek

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

History

HIST 11050, 11051, History of Civilization I, II .............. 6
12070, History of the U.S.: The Formative Period ............. 3
12071, History of the U.S.: The Modern Period ............... 3
32050, The Historian’s Craft ............................................. 3
plus 18 upper-division hours ...................................... 18
TOTAL 33

The 18 additional hours required for a major shall include at least 6 hours of United States history, 6 hours of European history since 1500 (including English and Russian), and 6 hours in the fields of African, ancient, medieval, Latin American or Asian history.

The Individualized Major

(College of Arts and Sciences, 105 Bowman Hall)

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

The program, with a core of related and clearly articulated courses, must be planned in consultation with the dean of the college or the dean’s designee; the program must be approved by the Curriculum Committee of the college or its designee. Courses in other colleges in the university may be included in the individualized major, with the limitation that two-thirds of the hours counted for the major must be within the College of Arts and Sciences.

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

The requirements for an individualized major are as follows:
1. 121 hours required for graduation.
2. 42 hours of upper-division coursework.
3. Fulfillment of the General Requirements for the B.A. degree in the College of Arts and Sciences.
4. A coherent program of at least 35 hours that the students design to fit their needs. At least half of this program must be in 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.

International Relations

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

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

Economics

ECON 22060, Principles of Microeconomics ............. 3
22061, Principles of Macroeconomics ................. 3
Choose one from: .......................................................... 3
32075, Intro. to International Trade (Geneva) (3)
42073, Comparative Economic Systems (3)
42075, International Economic Relations (3)

Geography

Choose one from: .......................................................... 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)
College of Arts and Sciences

37085, Geography of Central America and Mexico (3)

History

Choose two from: ........................................... 6

HIST 31024, World War II (3)
31029, Hist. of British Empire and Commonwealth Since 1815 (3)
31112, Chinese Civilization (3)
31125, Zionism and Israel (3)
31126, History of the Middle East (3)
31128, Late Medieval and Modern Jewish History (3)
31130, Hist. of African Civilization (3)
31140, Modern Latin America (3)
31141, Early Latin America (3)
41020, 19th-Century Europe (3)
41024, Modern European History, 1914 to 1945 (3)
41025, Modern European History: 1945 to Present (3)
41041, History of Germany, 1871 to Present (3)
41044, Russia from its Origins to 1801 (3)
41045, Russia, 1801 to Present (3)
41049, History of the Balkans: 18th Century to 1914 (3)
41050, History of the Balkans: 1914 to Present (3)
41112, History of Modern China (3)
41114, Economic History of East Asia in Modern Times (3)
41116, History of Japan (3)
41132, History of Africa, 1880-Present (3)
41135, History of West Africa (3)
41142, Independence in Latin America (3)
41143, 20th-Century Mexico (3)
42297, Colloquium: China and Japan (3)
45697, Colloquium in Social History of Latin America (3)
45797, Colloquium in Comparative Latin American Revolutions (3)
46597, Colloquium in 20th-Century European Diplomacy (3)
47597, Colloquium on NATO (3)

Political Science

POL 10004, Comparative Politics ......................... 3
10500, World Politics .................................... 3
Choose two from: ........................................... 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 two from: ........................................... 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.*

2. Satisfactory performance in a language proficiency test which covers speaking, listening, reading and writing. The test will be administered by CICP in cooperation with the language department. This requirement may also be satisfied through completion of two additional approved courses in the same or a closely related language with at least a grade of B− (2.7). Prior approval for courses used in this connection must be given in writing by student’s advisor.

TOTAL 39

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

Italian

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

Justice Studies

Core Requirements

JUS 12000, Intro. to Justice Studies ....................... 3
22300, Police Role ..................................... 3
26701, Corrections ...................................... 3
26702, Criminology .................................... 3
26704, Law and Society ................................. 3
32400, Research Methods in Justice Studies ............ 3
47211, Court Functions ................................ 3
Choose one from: ......................................... 3

JUS 37311, Minorities in Crime and Justice (3)
37411, Women in Crime and Justice (3)

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

At least 12 elective credits must be JUS courses. The remaining hours needed to complete the major can be selected from any course listed in the justice studies curriculum or from the following list of courses:

PHIL 31035, Philosophy and Justice (3)

POL 30130, Courts (3)
30301, Intro. to Public Administration (3)
40183, Constitutional Law: Civil Rights and Liberties (3)
### 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 40111</td>
<td>Abnormal Psychology</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>40383, Psychological Interventions</td>
<td>(3)</td>
</tr>
<tr>
<td>SOC 32570</td>
<td>Inequality in Societies</td>
<td>(3)</td>
</tr>
<tr>
<td>32762</td>
<td>Deviant Behavior</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**TOTAL 45**

Note: 15 of the 21 required hours (beyond the core) must be upper-division courses. A total of 6 hours of 46792, Internship; 45093, Variable Title Workshop; or 45096, Individual Investigation, can be used toward the fulfillment of the 9 remaining hours. JUS 36792 cannot be used as a major elective.

### Latin American Studies

**Latin American Studies**

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

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 M.A. program, LAS encourages its majors to pursue a second major from such disciplines as anthropology, economics, geography, history, political science, sociology and Spanish.

**Core courses:** 15
- MCLS 28404, The Latin American Experience 3

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

**Elective courses:** 15
- ANTH 38250, Religion: A Search for Meaning (3)
- 48230, Socio-Cultural Change (3)
- 48420, Archaeology of North America (3)
- 48425, Prehistory: 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 32061, Cultural Geography (3)
- HIST 31078, African American History (3)
- 31140, Modern Latin America (3)
- 31141, Early Latin America (3)
- 41056, History of Colonial America: 1492-1714 (3)
- 41142, Independence in Latin America (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)

*May be repeated if different authors are read.*
College of Arts and Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>40840, Comparative Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>PORT 37330, Early Brazilian Literature</td>
<td>3</td>
</tr>
<tr>
<td>PORT 37331, Recent Brazilian Literature</td>
<td>3</td>
</tr>
<tr>
<td>PORT 37421, Luso-Brazilian Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SOC 32569, Minorities in America</td>
<td>3</td>
</tr>
<tr>
<td>SOC 32610, Birth, Death and Migration</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38334, Early Spanish American Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38335, Recent Spanish American Literature</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 38424, Culture and Civilization of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>48216, Contemporary Hispanic Culture</td>
<td>3</td>
</tr>
<tr>
<td>48372, Spanish American Novel I</td>
<td>3</td>
</tr>
<tr>
<td>48373, Spanish American Novel II</td>
<td>3</td>
</tr>
<tr>
<td>48374, Modern Spanish American Drama</td>
<td>3</td>
</tr>
<tr>
<td>48376, Contemporary Spanish American Short Story</td>
<td>3</td>
</tr>
<tr>
<td>48378, U.S. Latina/o Writers</td>
<td>3</td>
</tr>
<tr>
<td>Any approved special topics course</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.

### Mathematics

(See also B.S. program)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 10051, Intro. to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12002, 12003, Analytic Geometry and Calculus I, II</td>
<td>10</td>
</tr>
<tr>
<td>21001, Linear Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>22005, Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>plus 9 additional hours of approved 40000-level MATH or CS courses</td>
<td>9</td>
</tr>
<tr>
<td>plus one of the following two sequences</td>
<td>6</td>
</tr>
<tr>
<td>MATH 41001, 41002, Intro. to Modern Algebra I, II</td>
<td>6</td>
</tr>
<tr>
<td>42001, 42002, Intro. to Analysis I, II</td>
<td>6</td>
</tr>
</tbody>
</table>

**TOTAL 35**

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

### Pan-African Studies

#### Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS 13001, Foundations in Pan-African Studies I</td>
<td>3</td>
</tr>
<tr>
<td>PAS 13002, Foundations in Pan-African Studies II</td>
<td>3</td>
</tr>
<tr>
<td>37000, Oral &amp; Written Discourses in PAS</td>
<td>3</td>
</tr>
<tr>
<td>37010, Research Methods in Pan-African Studies</td>
<td>3</td>
</tr>
<tr>
<td>47091, Senior Seminar in Pan-African Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one from:

- 22200, Intro. to African Arts | 3 |
- 34000, Intro. to African World View | 3 |

Choose one from:

- 35100, African American Social, Political, and Economic Systems | 3 |
- 35200, African Social, Political, and Economic Systems | 3 |

**plus one of the following concentrations** | 24

### Pan-African Literature, Arts and Culture

Choose from the courses listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS 23171, The African American Community</td>
<td>3</td>
</tr>
<tr>
<td>24407, Caribbean Studies I</td>
<td>3</td>
</tr>
<tr>
<td>33110, The Black Woman: Historical Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>33508, Caribbean Social and Political Directions</td>
<td>3</td>
</tr>
<tr>
<td>37143, The African-Brazilian Experience in Culture and Literature</td>
<td>3</td>
</tr>
<tr>
<td>43395, ST: African Diaspora Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from the courses listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 31140, Modern Latin America</td>
<td>3</td>
</tr>
<tr>
<td>31141, Early Latin America</td>
<td>3</td>
</tr>
<tr>
<td>MCLS 28404, The Latin American Experience</td>
<td>3</td>
</tr>
<tr>
<td>PORT 37421, Luso-Brazilian Civ.</td>
<td>3</td>
</tr>
</tbody>
</table>

### African Diaspora Studies

Choose from the courses listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS 22000, African World Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>22101, African American Visual Artists</td>
<td>3</td>
</tr>
<tr>
<td>22200, Introduction to African Arts</td>
<td>3</td>
</tr>
<tr>
<td>22201, Expressivity in African Arts</td>
<td>3</td>
</tr>
<tr>
<td>31092, Practicum in African Theatre Arts</td>
<td>3</td>
</tr>
<tr>
<td>32010, The Pan-African Essay</td>
<td>3</td>
</tr>
<tr>
<td>33200, Ancient African Cultures</td>
<td>3</td>
</tr>
<tr>
<td>42095, ST: PA Literature, Arts &amp; Culture</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from the courses listed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 42111, African Music and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>42161, History of Jazz</td>
<td>3</td>
</tr>
<tr>
<td>45231, Jazz Ensemble</td>
<td>3</td>
</tr>
</tbody>
</table>
Advisor-Approved Electives: ..........................12

Theoretical and Applied Research

Choose from the courses listed below: ..................... 9-12
PAS 34000, Intro. to African World View (3)
37010, Research Methods in PAS (3)
37020, Pan-Africanism and Model OAU (3)
47010, Theoretical Approaches to PAS (3)
47095, ST: Theoretical & Applied Research (3)
47150, The Underground Railroad (3)

Choose from the courses listed below: ..................... 0-3
PAS 30010, African & African American Philosophy (3)
PAS 30001, Political Methods (3)

Advisor-Approved Electives: ..........................12

TOTAL 46

Major electives are selected with the approval of an advisor.

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

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

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.)

Required Courses: .................................18
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 six of the following courses: .................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 four of the following courses: ...............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)
30301, Introduction to Public Administration (3)
40182, Constitutional Law: Government Structures and Functions (3)
40183, Constitutional Law: Civil Rights and Liberties (3)

TOTAL 48

*May be taken up to 12 credits.

Minimum cumulative 2.00 GPA required.

Philosophy

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

plus 15 upper-division hours .........................15

at least 9 of which must be at the 40000 level

Choose one from: ......................3

PHIL 21002, Intro. to Formal Logic (3)
31045, Formal Logic (3)

Choose four of the following courses: ..............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
## College of Arts and Sciences

### Physics

*(See also B.S. program)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH*12002,12003, Analytic Geometry and Calculus I, II</td>
<td>10</td>
</tr>
<tr>
<td>21001, Linear Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>22005, Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>32044, Introduction to Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHY 23101, 23102, General University Physics I &amp; II</td>
<td>10</td>
</tr>
<tr>
<td>30020, Intermediate Physics Lab</td>
<td>2</td>
</tr>
<tr>
<td>35101, Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>36001, Introductory Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>40020, Advanced Physics Lab</td>
<td>2</td>
</tr>
<tr>
<td>45201, Electromagnetic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>45301, Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Plus 7 approved elective hours**</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>52</strong></td>
</tr>
</tbody>
</table>

*MATH 12001, which is a prerequisite for MATH 12002, should be bypassed by students with sufficient background. MATH 12001 may be waived by obtaining permission from the Department of Mathematical Sciences or by passing the placement exam given by Academic Testing Services.*

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

### Political Science

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

**Requirements:**

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

### American Politics

12 hours selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 30100, American Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>30110, The Congress</td>
<td>3</td>
</tr>
<tr>
<td>30120, Presidency and Executive Bureaucracy</td>
<td>3</td>
</tr>
<tr>
<td>30130, Courts</td>
<td>3</td>
</tr>
<tr>
<td>30420, Intergovernmental Policy Making</td>
<td>3</td>
</tr>
<tr>
<td>30430, State Government</td>
<td>3</td>
</tr>
<tr>
<td>30450, Metropolitan Governance</td>
<td>3</td>
</tr>
<tr>
<td>30460, Federalism and Intergovernmental Relations</td>
<td>3</td>
</tr>
<tr>
<td>40111, Political Campaign Management</td>
<td>3</td>
</tr>
<tr>
<td>40112, Politics and the Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>40116, Public Opinion and Political Behavior</td>
<td>3</td>
</tr>
<tr>
<td>40118, Political Parties and Interest Groups</td>
<td>3</td>
</tr>
<tr>
<td>40182, Constitutional Law: Government Structures and Functions</td>
<td>3</td>
</tr>
<tr>
<td>40183, Constitutional Law: Civil Rights and Liberties</td>
<td>3</td>
</tr>
<tr>
<td>40440, U.S. Environmental Politics and Policies</td>
<td>3</td>
</tr>
<tr>
<td>40470, Women and Politics</td>
<td>3</td>
</tr>
<tr>
<td>40920, Politics of Social Movements</td>
<td>3</td>
</tr>
</tbody>
</table>

### General

12 hours of upper-division courses

12 hours of upper-division courses selected in consultation with the student’s advisor.

### International Relations-Comparative Politics

12 hours selected from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 30500, International Relations Theory</td>
<td>3</td>
</tr>
<tr>
<td>30501, Comparative Theory &amp; Concepts</td>
<td>3</td>
</tr>
<tr>
<td>30520, European Politics</td>
<td>3</td>
</tr>
<tr>
<td>30530, Asian Politics</td>
<td>3</td>
</tr>
<tr>
<td>30540, African Politics</td>
<td>3</td>
</tr>
<tr>
<td>30550, Latin American Politics</td>
<td>3</td>
</tr>
<tr>
<td>30551, U.S.-Latin American Relations</td>
<td>3</td>
</tr>
<tr>
<td>30810, Politics of the Global Economy</td>
<td>3</td>
</tr>
</tbody>
</table>
30820, International Organization and Law (3)
30840, Nongovernmental Organizations (3)
40530, Politics of War (3)
40540, Politics of Development (3)
40560, Human Rights and Social Justice (3)
40810, Government-Business Relations (3)
40830, U.S. Foreign Policy (3)
40840, Comparative Foreign Policy (3)
40920, Politics of Social Movements (3)

Public Policy

12 hours selected from: .................................................. 12
POL 30300, Public Policy Theory (3)
30301, Introduction to Public Administration (3)
30310, Qualitative Policy Analysis (3)
30320, Institutional Analysis (3)
30350, Public Sector Dispute Resolution (3)
30420, Intergovernmental Policymaking (3)
30430, State Government (3)
30450, Metropolitan Government (3)
30460, Federalism and Intergovernmental Relations (3)
30810, International Organization and Law (3)
30840, Nongovernmental Organizations (3)
40310, Political Economy of Public Policy (3)
40320, Ethics and Public Policy (3)
40350, Cultural Diversity in Public Policy (3)
40440, U.S. Environmental Politics and Policies (3)
40470, Women and Politics (3)
40810, Government-Business Relations (3)
40830, U.S. Foreign Policy (3)
40840, Comparative Policy (3)
40920, Politics of Social Movements (3)

Psychology

PSYC 11762, General Psychology ................................. 3
21621, Quantitative Methods in Psych. I ................. 3
31574, Research Methods in Psychology ................. 3
41990, Writing in Psychology ................................. 1

plus 8 hours of upper-division credit in psychology ........ 8
Choose one from: .................................................. 3
20651, Child Psychology (3)
21211, Psychology of Adjustment (3)

Choose one from: .................................................. 3
31043, Basic Learning Processes (3)
41363, Biopsychology (3)

Choose one from: .................................................. 3
30445, Cognitive Psychology (3)
31141, Perception (3)

Choose one from: .................................................. 3
41282, Personality (3)
41532, Social Psychology (3)

TOTAL 30

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

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

Russian

(See also B.S./Translation Program)

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

Prerequisite: Intermediate II (RUSS 22202) or equivalent skills.

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

RUSS 32207, Russian Conversation ............................ 2
32211, Russian Composition and Conversation .......... 3
32215, Russian Phonetics and Diction ................. 3
32303, Introduction to Modern Writers ................. 3
32421, Russian Civilization ................................. 4
42211, Adv. Composition and Conversation .......... 3
42351, Survey: Russian and Soviet Literature .......... 4
**College of Arts and Sciences**

RUSS literature or culture electives at 30000-40000 level .............................................. 6
RUSS elective at 40000 level ................................................................. 3

**TOTAL 31**

**Sociology**

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

plus 21 additional hours of SOC courses ........................................ 21

at least 12 of these to be upper-division hours

**TOTAL 34**

**Soviet and East European Studies**

(Argyrios K. Pisiotis, Coordinator, 321 Bowman Hall)

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

**Prerequisites:**

ECON 22060, Principles of Microeconomics (3)  
22061, Principles of Macroeconomics (3)  
GEOG 10160, Intro. to Geography (3)  
RUSS 12201, 12202, Elementary Russian I, II (8)

plus 22201, 22202, Intermediate Russian I, II,  
or  
14 hours of an East European language (6-14)

**Requirements:**

A&S 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 one from: ................................................................. 3

HIST 41045, Russia, 1801 to Present (3)  
41050, Balkans: 1914 to Present (3)

Choose one from: ................................................................. 3-4

HIST 31050, History and Society of Modern Greece (3)  
31051, Romanian Civilization (3)  
RUSS 32421, Russian Civilization (4)

**TOTAL 27-28**

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

HIST 11050, 11051, History of Civilization I, II (6)  
ECON 42073, Comparative Economic Systems (3)  
POL 10004, Comparative Politics (3)  
RUSS 32303, Modern Writers (3)  
32325, Russian Poetry and Folklore (3)  
32350, Russian Prose (3)  
32354, Russian Drama (3)

**Spanish**

(See also B.S./Translation Program)

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

Prerequisite: Intermediate II (SPAN 28202) or equivalent skills.

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

SPAN 38211, Spanish Grammar and Composition  ................. 3  
38213, Spanish Reading and Conversation  ......................... 3  
38215, Spanish Phonetics and Diction  ......................... 3  
38421, Civilization of Spain  ................................................. 3  
38424, Culture and Civilization of Latin America  ............... 3  
SPAN literature or culture elective at 30000-40000 level ........... 3  
SPAN elective at the 40000-level ............................................. 3  
SPAN 48215, Spanish Composition and Conversation—Advanced  .......... 3

Choose 9 hours from: ................................................................. 9

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

**TOTAL 33**
Note: Students may wish to expand their acquaintance with Spain or Latin America by investigating the Latin American studies program.

### Teaching English as a Second Language*

*Pending Ohio Board of Regents Approval.

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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 31001</td>
<td>Fundamentals of English Grammar</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31002</td>
<td>History of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31003</td>
<td>Introduction to Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31004</td>
<td>Lexicography/Lexicology</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31005</td>
<td>Child Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31007</td>
<td>TESL Pedagogy I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 41002</td>
<td>Computers in Second Language Teaching</td>
<td>3</td>
</tr>
<tr>
<td>ENG 41092</td>
<td>ESL/EFL Practicum I</td>
<td>3</td>
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Choose three hours

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENG 22071</td>
<td>Great Books I</td>
<td>3</td>
</tr>
<tr>
<td>ENG 22072</td>
<td>Great Books II</td>
<td>3</td>
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</table>

Choose six hours

<table>
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<tbody>
<tr>
<td>COMM 35852</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENG 31006</td>
<td>World Englishes</td>
<td>3</td>
</tr>
<tr>
<td>ENG 41001</td>
<td>Sociolinguistics in Schooling</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 22221</td>
<td>Multicultural Psychology</td>
<td>3</td>
</tr>
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</table>

Choose three hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ENG 30062</td>
<td>Principles of Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 30063</td>
<td>Advanced Business and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 30064</td>
<td>Argumentative Prose Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENG 30065</td>
<td>Expository Prose Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL 36**

### BACHELOR OF SCIENCE

**General Requirements**

The university’s Liberal Education Requirements (see Pages 81-83) are included in the College of Arts and Sciences’ General Requirements. Students should consult the college office if they have questions concerning the applicability of specific coursework to the General Requirements. None of the courses listed as part of the college’s General Requirements may be taken pass-fail.

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

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

**I. Composition**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ENG 10001</td>
<td>College English I (3)</td>
<td>6</td>
</tr>
<tr>
<td>ENG 10002</td>
<td>College English II (3)</td>
<td>6</td>
</tr>
</tbody>
</table>

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

**II. Mathematics, Logic and Foreign Languages**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 10041</td>
<td>Elementary Probability and Statistics (3)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11008</td>
<td>Explorations in Modern Mathematics (3)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 11011</td>
<td>College Algebra (4)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 11012</td>
<td>Intuitive Calculus (3)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 12001</td>
<td>Algebra and Trigonometry (4)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 12002</td>
<td>Analytic Geometry and Calculus I (5)</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 11009</td>
<td>Principles of Thinking (3)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 21002</td>
<td>Intro. to Formal Logic (3)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 31045</td>
<td>Formal Logic (3)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Restrictions:**

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

Note: MATH 14001 and 14002 may be used to meet the requirement provided both courses were completed while students were enrolled in another college.
III. Humanities and Fine Arts .............................................. 9

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

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

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

**Humanities: Arts and Sciences**
- CLAS D21404, The Greek Achievement (3)
- CLAS D21405, The Roman Achievement (3)
- ENG 21054, Intro. to Shakespeare (3)
- 22071, Great Books I (3)
- 22072, Great Books II (3)
- 22073, Major Modern Writers (3)
- HIST D11050, History of Civilization I (3)
- D11051, History of Civilization II (3)
- D*12070, History of the U.S.: The Formative Period (3)
- D*12071, History of the U.S.: The Modern Period (3)
- PAS D23001, Black Experience I: Beginnings to 1865 (3)
- D*23002, Black Experience II: 1865 to Present (3)
- PHIL D11001, Intro. to Philosophy (3)
- D21001, Intro. to Ethics (3)
- D21020, Comp. Religious Thought I (3)
- D21021, Comp. Religious Thought II (3)

**Humanities: Fine and Professional Arts**
- COMM 15000, Introduction to Human Communication (3)
- D*26000, The Roman Achievement (3)
- JMC D*20001, Media, Power and Culture (3)

**Fine Arts: Fine and Professional Arts**
- ARCH 10001, Understanding Architecture (3)
- 10011, Survey of Architectural History I (3)
- 10012, Survey of Architectural History II (3)
- 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 D27076, Dance as an Art Form (3)
- MUS 22111, Understanding of Music (3)
- D22121, Music as a World Phenomenon (3)
- THEA D11000, The Art of the Theatre (3)

IV. Social Sciences ............................................................. 9

**Required:**
Coursework must be selected from at least two curricular areas (e.g., ANTH, ECON, etc.). All 9 required hours in the Social Sciences must be selected from the courses listed below.

**Restrictions:**
No coursework from the major department may be counted toward the Social Sciences.

**Note:** Any course marked with a “D” that is taken to satisfy the Social Sciences will also satisfy a Diversity Requirement provided that course is not in the major. Diversity courses marked additionally with an asterisk (*) have a domestic perspective.

- ANTH D18210, Intro. to Cultural Anthropology (3)
- 18420, Introduction to Archaeology (3)
- CACM 11001, Introduction to Conflict Management (3)
- ECON 22060, Prin. of Microeconomics (3)
- 22061, Prin. of Microeconomics (3)
- GEOG 10160, Intro. to Geography (3)
- D17063, World Geography (3)
- 17064, Geography of U.S. and Canada (3)
- JUS 26704, Law and Society (3)
- POL D10004, Comparative Politics (3)
- D*10100, American Politics (3)
- D*10301, Diversity in American Public Policy (3)
- D10500, World Politics (3)
- PSYC 11762, General Psychology (3)
- 20651, Child Psychology (3)
- 21211, Psyc. of Adjustment (3)
- D*22221, Multicultural Psychology (3)
- SDC D*12050, Intro. to Sociology (3)
- D22778, Social Problems (3)

V. Basic Sciences ................................................................. 9

**Required:**
Nine hours are required in the Basic Sciences. At least 6 hours must be selected from the courses listed below or from beginning “major sequence” courses in (biological) ANTH (ANTH 38630), BSCI (BSCI 10110, 10120), CHEM (CHEM 10060, 10061, 10062, 10063, 10961) and PHY (PHY 23101, 23102). The remaining 3 hours may optionally be selected from other courses in BSCI, CHEM, GEOL and PHY.

**Restrictions:**
No more than two courses from any curricular area (not counting laboratories) may be counted toward the Basic Sciences. No coursework from the major department may be counted toward the 6 hours that must be selected from the courses listed below. Credit toward the Basic Sciences is not allowed for:
- both the PSCI 11660 series and either the CHEM 10050 series, the CHEM 10060 series or the PHY 13001 series.
- both the CHEM 10050 series and the CHEM 10060 series.
- more than one of the PHY 13001, PHY 13011 or PHY 23101 series.
• combinations of BSCI 10001, the BSCI 10110 series and/or the BSCI 20020 series.

ANTH 18630, Human Evolution (3)
BSCI 10001, Human Biology (3)
20020, Biological Structure and Function (5)
CHEM 10030, Chemistry in Our World (3)
10050, Fundamentals of Chemistry (3)
10052, Intro. to Organic Chemistry (2)
10053, Organic and Inorganic Lab (1)
10054, General and Elementary Organic Chemistry (5)
CS 10051, Introduction to Computer Science (4)
GEOG 11040, Earth Dynamics (3)
11041, Earth Dynamics Lab (1)
11042, Earth History (3)
11043, Earth History Lab (1)
21062, Environmental Geology (3)
21080, Oceanography (3)
PHY 11030, Seven Ideas that Shook the Universe (3)
13001, General College Physics I (5)
13002, General College Physics II (5)
13011, College Physics I (3)
13012, College Physics II (3)
21040, Physics in Entertainment and the Arts or 24002, Astronomy (3)
21430, Frontiers in Astronomy (3)
PSCI 11660, Physical Science (3)
11661, Physical Science (3)

VI. Diversity .................................................. 0-3
Required: two courses
The selection of these two courses is subject to the following constraints.
1.) One course must be selected from the courses marked with a "D" in section III or IV above. This course may not be from the major department.
2.) The second course may be selected from either the courses marked with a "D" in section III or IV above or from the full list of diversity courses on Pages 85-87. This course may be from the major department, but if so it might not apply toward the Humanities, Fine Arts or Social Sciences.
3.) One of the above two courses must address domestic (U.S.) issues. These courses are marked with an asterisk (*). The other course must address global issues. These courses are not marked with an asterisk (*).

VII. US 10001, University Orientation ................................. 1
TOTAL 45-50

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

Anthropology

(See also B.A. program)

ANTH 18210, Intro. to Cultural Anthropology .......... 3
18420, Introduction to Archaeology .......... 3
38630, Prin. of Biological Anthropology .......... 3
38480, Archaeological Analysis .......... 3
38490, Quantitative Anthropology .......... 3
Upper-division ANTH electives ................. 15
CHEM 10060, 10061, General Chemistry I, II ............. 8
10062, 10063, Gen. Chemistry Lab I, II ............. 2
MATH 11022, Trigonometry* ............. 2
12002, Analytic Geometry and Calculus I ............. 5
Choose one from: ...................................... 3
ANTH 48212, Kinship and Social Organization (3)
48214, Politics of Culture (3)
Choose one from: ...................................... 3
ANTH 48225, Archaeology of Death (3)
48425, Prehistory: Mesoamerica (3)
48440, Prehistory: Ohio (3)
48450, States and Empires (3)
Choose one from: ...................................... 3
ANTH 38680, Primate Societies (3)
48820, Human Musculo-Skeletal System (3)
48830, Human Behavioral Ecology and Evolution (3)
48840, Natural Selection in Perspective (3)
### Biological Anthropology

<table>
<thead>
<tr>
<th>Course</th>
<th>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>40163</td>
<td>Organic Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Choose one from:</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>30360</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>30519</td>
<td>Vertebrate Embryology and Developmental Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>40275</td>
<td>Systematic Botany</td>
<td>4</td>
</tr>
<tr>
<td>40430</td>
<td>General Physiology</td>
<td>4</td>
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**Total:** 18

### Archaeology

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<tr>
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</tr>
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<tbody>
<tr>
<td>GEOG 10160</td>
<td>Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>29160</td>
<td>Introduction to Maps and Map Analysis</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 Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 49070</td>
<td>Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>49080</td>
<td>Advanced Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>49230</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>Choose one from:</td>
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</tr>
<tr>
<td>GEOG 21061</td>
<td>Glacial Geology</td>
<td>3</td>
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<tr>
<td>23063</td>
<td>Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>32066</td>
<td>Geomorphology</td>
<td>4</td>
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**Total:** 16-17

### Applied Mathematics

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CS 10051</td>
<td>Intro. to Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>23021</td>
<td>Intro. to Object-Oriented Programming</td>
<td>3</td>
</tr>
<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>21001</td>
<td>Linear Algebra with Applications</td>
<td>3</td>
</tr>
<tr>
<td>22005</td>
<td>Analytic Geometry and Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>32044</td>
<td>Intro. to Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>40011</td>
<td>Intro. to Probability Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>40012</td>
<td>Intro. to Statistical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>41021</td>
<td>Theory of Matrices</td>
<td>3</td>
</tr>
<tr>
<td>42031</td>
<td>Mathematical Models and Dynamical Systems</td>
<td>3</td>
</tr>
<tr>
<td>42091</td>
<td>Seminar: Modeling Projects</td>
<td>3</td>
</tr>
<tr>
<td>42201</td>
<td>Introduction to Numerical Computing I</td>
<td>3</td>
</tr>
<tr>
<td>42202</td>
<td>Introduction to Numerical Computing II</td>
<td>3</td>
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<tr>
<td>PHY 23001</td>
<td>University Physics Frontiers I</td>
<td>2</td>
</tr>
<tr>
<td>23002</td>
<td>University Physics Frontiers II</td>
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<tr>
<td>23003</td>
<td>University Physics Frontiers III</td>
<td>4</td>
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<tr>
<td><strong>Total:</strong></td>
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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. 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, and courses in the applied mathematics concentrations also form a suitable complement. The concentration in probability and statistics is for students...
interested in those general areas, including possible graduate study, and also serves students interested in a career in actuarial science. The concentration in financial mathematics 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 LERs 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.

*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.

Choose one from: ........................................ 4
CHEM 20481, Basic Organic Chemistry (4)
30481, Organic Chemistry (4)

**Choose one from: ...................................... 2
CHEM 20482, Basic Organic Chemistry (2)
30475, Organic Chemistry Lab (2)
30482, Organic Chemistry (2)

Choose one from: ......................................... 3-5
MATH 12003, Analytic Geometry and Calculus II (5)
30011, Basic Probability and Statistics (3)

Plus 38 hours in one of the following concentrations ......... 38

TOTAL 77-79

Molecular and Cellular Concentration

Required courses ........................................ 7
BSCI 20140, Cell Biology ................................. 4
40158, Molecular Biology ............................... 3

Guided biology and science electives .......................... 31
BSCI Electives***
Select any combination of BSCI courses other than those used to meet the 7-hour requirement, additional organic chemistry, and/or college or university physics (of those listed below). See the Course Descriptions section in the back of this Catalog or 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.

CHEM 20482, Basic Organic Chemistry (2)
or
30475, Organic Chemistry Lab (2)
30482, Organic Chemistry (2)

Total 38

Organismal Concentration

Required courses ........................................ 8
Select 8 hours from any of the following courses:
BSCI 20275, Local Flora (4)
20560, Invertebrate Zoology (4)
30171, General Microbiology (4)
30360, General Ecology (4)
College of Arts and Sciences

30580, Entomology (4)
40272, Plant Anatomy (4)
40277, Morphology of Lower Plants (4)
40430, General Physiology (4)
40556, Vertebrate Zoology (4)

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

BSCI Electives***
Select any combination of BSCI courses other than those used to meet the 8-hour requirement, additional organic chemistry, and/or college or university physics (of those listed below). See the Course Descriptions section in the back of this Catalog or 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.

CHEM 20482, Basic Organic Chemistry (2)
or
30482, Organic Chemistry (2)
30475, Organic Chemistry Laboratory (2)
30476, Organic Chemistry Laboratory (2)

PHY 13001, General College Physics I (5)
or
23101, General University Physics I (5)
13002, General College Physics II (5)
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.

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

Botany

Also see “Note” under Biological Sciences entry in Course Descriptions section of this Catalog.

Core courses:

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

CHEM 10060, 10061, General Chemistry I, II ............... 8
10062, 10063, General Chemistry Lab I, II ............ 2

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

Complete 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)

Required courses ............................................ 12

Select 12 hours from any of the following courses:

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 one from: ........................................... 4

CHEM 20481, Basic Organic Chemistry (4)
30481, Organic Chemistry (4)

*Choose one from: ....................................... 2

CHEM 20482, Basic Organic Chemistry (2)
30475, Organic Chemistry Lab (2)
30482, Organic Chemistry (2)

Choose one from: ........................................... 3-5

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

Guided biology and science electives .......................... 26

BSCI Electives***
Select any combination of BSCI courses other than those used to meet the 12-hour requirement, additional organic chemistry, and/or college or university physics (of those listed below). See the Course Descriptions section in the back of this Catalog or 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 (2)
or
30482, Organic Chemistry (2)
30475, Organic Chemistry Laboratory (2)
30476, Organic Chemistry Laboratory (2)

PHY 13001, General College Physics I (5)
or
23101, General University Physics I (5)
13002, General College Physics II (5)
or
23102, General University Physics II (5)

Total 77-79
*CHEM 30284 may be substituted for the second organic chemistry course requirement with approval of the major advisor.

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

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

### Chemistry

(See also B.A. program)

**CHEM 30101, Quantitative Analysis** ............................. 2
30475, 30476, Organic Chemistry Lab ............................. 4
30481, 30482, Organic Chemistry ................................. 6
MATH*12002, 12003, Analytic Geometry and Calculus I, II  ... 10

Choose either .............................................. 10

**CHEM 10060, 10061, General Chemistry I, II (8)**
10062, 10063, General Chemistry Lab I, II (2)

or
10960, 10961, Honors General Chemistry (10)

Choose one concentration:

#### Biological Chemistry Concentration

(Individual investigation is strongly encouraged for students in this concentration.)

**BSCI 10120, Biological Foundations** ............................ 4
20140, Cell Biology .............................................. 4
30156, Elements of Genetics .................................... 3
30171, General Microbiology .................................... 4

**CHEM 30100, Aqueous Equilibrium** ............................ 2
30102, Solution Chemistry Lab ................................... 2
40245, Biochemical Foundations of Medicine .................... 4
40248, Advanced Biological Chemistry .......................... 3
40251, Advanced Biological Chemistry Lab ..................... 2
40263, Physical Biochemistry .................................... 3
40567, Basic Concepts of Physical Chemistry ................... 4

**PHY 13001, 13002, General College Physics I, II** .......... 10

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

**BSCI 40143, Eukariotic Cell Biology** (3)

**CHEM 30113, Instrumental Analysis** (4)
40361, Intermediate Inorganic Chemistry (2)
40362, Intermediate Inorganic Chemistry (2)
40796, Individual Investigation (1-2)

or approved upper-division Chemistry electives

### Chemistry Concentration

(This program meets the minimum requirements for the American Chemical Society certification. Individual investigation is strongly encouraged for students in this concentration.)

**CHEM 30100, Aqueous Equilibrium** ............................ 2
30102, Solution Chemistry Lab ................................... 2
30113, Instrumental Analysis .................................... 4
30284, Introductory Biological Chemistry ........................ 4
40361, 40362, Intermediate Inorganic Chemistry .............. 4
40364, Intermediate Inorganic Chem Lab ........................ 1
40555, 40556, Elem. Physical Chemistry ....................... 6
40557, Physical Chemistry Lab ................................... 2

plus 4 hours from approved CHEM 40000-level courses ............ 4

**PHY 23101, 23102, Gen. University Physics I, II** .......... 10
MATH 22005, Analytic Geometry & Calculus III .................. 3

### Materials Chemistry Concentration

(Individual investigation is strongly encouraged for students in this concentration.)

**CHEM 30050, Introduction to Materials Chemistry** ........ 2
30113, Instrumental Analysis .................................... 4
30284, Introductory Biological Chemistry ........................ 4
40053, Materials Chemistry Laboratory .......................... 2
40352, Inorganic Materials Chemistry ............................ 3
40361, 40362, Intermediate Inorganic Chemistry .............. 4
40364, Intermediate Inorganic Chemistry Lab ................. 1
40451, Organic Materials Chemistry ............................. 3
40555, 40556, Elementary Physical Chemistry ................... 6
40557, Physical Chemistry Lab ................................... 2

MATH 22005, Analytic Geometry and Calculus III .................. 3

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

TOTAL 74-81

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

### Computer Science

**MATH*12002, 12003, Analytic Geometry and Calculus I, II** ........................................................................... 10

**CS 10051, Introduction to Computer Science** .................. 4

**CS 23021, Introduction to Object-Oriented Programming** .... 3

**CS 23022, Discrete Structures for Computer Science** ........ 3

**CS 33001, Data Structures** ....................................... 3

**CS 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 ...................................... 3

plus approved 40000-level CS courses ......................... 9
plus approved upper-division CS courses** .................... 8

** With the advisor’s prior permission, computer-related upper-divi-
sion courses, normally from MATH, PHY or M&IS, may replace
some of these hours.

Total 70

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

Conservation

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<tr>
<td>10120</td>
<td>Biological Foundations</td>
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<td>20275</td>
<td>Local Flora</td>
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<td>30360</td>
<td>General Ecology</td>
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<td>40439</td>
<td>Environmental Physiology</td>
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<td>GEOL 11040</td>
<td>Earth Dynamics and Lab</td>
<td>4</td>
</tr>
<tr>
<td>21062</td>
<td>Environmental Geology</td>
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<td>32066</td>
<td>Geomorphology</td>
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<td>CHEM 10060</td>
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<td>COMM 15000</td>
<td>Introduction to Human Communication</td>
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<td>ENG 20002</td>
<td>Introduction to Technical Writing</td>
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Select any 11 hours from these groups: ..........11

Botany Group

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<td>40269</td>
<td>Biology of the Algae</td>
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<tr>
<td>40275</td>
<td>Systematic Botany</td>
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<tr>
<td>40276</td>
<td>Plant Taxonomy</td>
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<td>Morphology of Lower Plants</td>
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Ecology Group

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<td>BSCI 40163</td>
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<td>40170</td>
<td>Stream Biology</td>
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<td>40363</td>
<td>Microbial Ecology</td>
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<td>40364</td>
<td>Limnology</td>
<td>4</td>
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<td>40369</td>
<td>Lake Management</td>
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Zoology Group

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<td>30582</td>
<td>Ornithology</td>
<td>4</td>
</tr>
<tr>
<td>40515</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>40525</td>
<td>Wildlife Resources</td>
<td>3</td>
</tr>
<tr>
<td>40556</td>
<td>Vertebrate Zoology</td>
<td>4</td>
</tr>
</tbody>
</table>

Select 9 hours: ................................. 9

GEOG 21062, Physical Geography | 3 |
1073 | Conservation of Natural Resources | 3 |
1082 | Geography of Soils | 3 |
49070 | Geographic Information Science | 3 |
49080 | Advanced Geographic Information Science | 3 |

Choose one from: ......................... 3-4

CS 10051 | Intro. to Computer Science | 4 |
GEOG 39002 | Statistical Methods in Geography | 3 |

Total 81

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

French Translation

It is strongly recommended that students in this program take
ECON 22060 and 22061 as part of their Social Sciences require-
ment, and that they fulfill their Basic Sciences requirement with
BSCI 10001, CHEM 10050 and GEOG 21062.

Prerequisites:
FR 13201, 13202, Elementary French I, II (8)
FR 23201, 23202, Intermediate French I, II (6)

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

I. Language Core Requirements: ................. 21
FR 33211 | French Conversation | 3 |
33212 | French Composition | 3 |
33215 | French Phonetics & Diction | 3 |
33421 | French Civilization | 3 |
Any FR 30000-level literature course | 3 |

Choose one from: ......................... 3
FR 43213 | French Composition Advanced | 3 |
43216 | Contemporary French Culture | 3 |

Any FR 40000-level literature course | 3

II. Translation/Business Language Requirements: ............... 22
FR 33231 | Translation Practice | 1 |
33240 | Conversation for Business and Special Purposes | 3 |
43230 | Advanced Translation Practice | 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 hours of a different language in the sequence through composition/conversation. It may also optionally include MCLS 23217, The Francophone Experience.

TOTAL 82

Geology

(See also B.A. program)

GEOL 11040, Earth Dynamics .................. 3
11041, Earth Dynamics Lab ................. 1
11042, Earth History .......................... 3
11043, Earth History Lab ..................... 1
23063, Mineralogy ............................ 4
31070, Petrology ............................... 4
31080, Structural Geology .................. 4
32066, Geomorphology ..................... 4
34061, Invertebrate Paleontology .......... 4
41092, Summer Field Camp .............. 6
44070, Principles of Stratigraphy .......... 4
plus 9 upper-division hours ............ 9
CHEM 10060, 10061, General Chemistry I, II .... 8
10062, 10063, General Chemistry Lab I, II .... 2

MATH 12002, Analytic Geom. and Calculus I .... 5
30011, Basic Probability and Statistics .... 3
PHY 13001, 13002, Gen. College Physics I, II .... 10
Choose one from: ........................... 3

BSCI 10110, Biological Diversity (4)
20560, Invertebrate Zoology (4)
Choose one from: ........................... 3

GEOL 43040, Principles of Geochemistry (3)
41025, General Geophysics (3)
Choose one from: ........................... 3-5
MATH 12903, Analytic Geom. and Calculus II (5)
21001, Linear Algebra (3)

TOTAL 85-87

German Translation

It is strongly recommended that students in this program take ECON 22060 and 22061 as part of their Social Sciences requirement, and that they fulfill their Basic Sciences requirement with BSCI 10001, CHEM 10050 and GEOL 21062.

Prerequisites:
GER 11201, 11202, Elementary German I, II (8)
GER 21201, 21202, Intermediate German I, II (6)
Any portion of the prerequisites may be waived by demonstrated proficiency.

I. Language Core Requirements: ............... 21
GER 31201, Intensive German Grammar .... 3
31211, German Composition/Conversation .... 3
31215, German Phonetics & Diction .... 3
31303, Introduction to German Literature .... 3
31421, German Civilization ............ 3
41211, Advanced German Comp./Conversation .... 3
41216, Contemporary German Culture .... 3

II. Translation/Business Language Requirements .............. 22
GER 31231, Translation Practice ........ 1
31240, Conv. for Bus. & Special Purposes .... 3
41230, Advanced Translation Practice .... 3
41240, Business and Special Texts ....... 3
MCLS 30230, Approaches to Translation .... 3
40420, Foreign Lang. & Culture Studies .... 3
Choose one from: ........................... 3

ENG 20002, Introduction to Technical Writing (3)
30063, Business and Professional Writing (3)
Choose one from: ........................... 3

CS 10001, Computer Literacy (3)
10061, Intro. to Computer Programming (3)
M&IS 24070, Principles of Systems Development (3)
24053, Intro. to Computer Applications (3)
The courses offered under Section II 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 GER 31231 are taken concurrently.

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

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### Mathematics

*(See also B.A. program)*

- **CS 10051, Introduction to Computer Science** ............... 4
- **MATH*12002, 12003, Analytic Geometry and Calculus I, II** .... 10
- **21001, Linear Algebra with Applications** ..................... 3
- **22005, Analytic Geometry and Calculus III** ................... 3
- **41001, 41002, Introduction to Modern Algebra I, II** ........ 6
- **41021, Theory of Matrices** .................................. 3
- **21001, 42002, Introduction to Analysis I, II** ............... 6
- **PHY 23101, General University Physics I** ..................... 5
  - plus 9 additional hours ........................................... 9
  - of approved 40000-level MATH or CS courses
  - plus 18 additional hours ........................................... 18
  - of approved coursework from upper-division MATH courses; or
    from upper-division courses for majors in M&IS, BSCI, CHEM,
    CS, ECON, GEOL or PHY; or from PHIL 31045, 41035, 41045

TOTAL 67

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

### Physics

*(See also B.A. program)*

- **CHEM 10060, 10061, General Chemistry I, II** ............... 8
- **10062, 10063, General Chemistry Lab I, II** ............... 2
- **MATH*12002, 12003, Analytic Geometry and Calculus I, II** .... 10
- **21001, Linear Algebra with Applications** ..................... 3
- **22005, Analytic Geometry and Calculus III** ................... 3
- **32044, Introduction to Ordinary Differential Equations** .... 3
- **PHY 23101, 23102, General University Physics I & II** ...... 10
- **35101, Mechanics I** .......................................... 3
- **36001, Introductory Modern Physics** ........................... 3
- **45201, Electromagnetic Theory I** .............................. 3
- **45301, Thermodynamics** ....................................... 3
- **46101, Quantum and Atomic Physics** .......................... 4
  - plus an option in one of the following concentrations ...... 29-30

#### Physics Concentration

**A. General Physics Option**

- **PHY 30020, Intermediate Physics Lab** ......................... 2
- **35102, Mechanics II** .......................................... 3
- **40020, Advanced Physics Lab** ................................ 2
- **40096, Individual Investigation** ............................... 2
- **45202, Electromagnetic Theory II** ............................. 3
- **46301, Introduction to Nuclear Physics** ...................... 3
- **46401, Introduction to Solid State** ............................ 3
- **MATH 42045, Introduction to Partial Differential Equations** .... 3
  - Physics electives** ............................................. 9

TOTAL 84-85

**B. Applied Physics Option**

- **MATH 42045, Introduction to Partial Differential Equations** .... 3
- **PHY***32511, Electronics** .................................. 4
- ***** 35402, Scientific Computing** .............................. 2
- **** 42020, Applied Physics Lab ................................ 2
- **42512, General Electronic Instrumentation** ................... 4
- **45501, Fundamentals of Modern Optics** ....................... 3
  - Physics electives* ............................................... 9

TOTAL 84-85

The general physics option is designed to prepare physics majors for further study at the graduate level. The applied physics option emphasizes applications of physics, particularly in modern optics, including electro-optic devices and lasers.

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

**These courses may be replaced with physics-related electives selected from mathematics or the natural sciences with advisor’s permission.
***Proficiency in a high-level computer language is required. Students may obtain a waiver of this requirement by obtaining permission from the Department of Physics or by obtaining a passing grade in CS 10061.

****PHY 32511 and 35402 may be replaced by PHY 12411 and PHY 35611 with advisor’s permission.

*****PHY 42020 may be replaced by PHY 30020 and PHY 40020 with advisor’s permission.

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**Physics Interdisciplinary Concentration**

**A. Chemistry Option**

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<td>30101</td>
<td>Quantitative Analysis</td>
<td>.2</td>
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<td>30102</td>
<td>Solution Chemistry Lab</td>
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<td>30475</td>
<td>Organic Chemistry Lab</td>
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<td>PHY 30020</td>
<td>Intermediate Physics Lab</td>
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<td>32511</td>
<td>Electronics</td>
<td>.4</td>
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<td>40020</td>
<td>Advanced Physics Lab</td>
<td>.2</td>
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<td>Physics electives</td>
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**Plus 4 hours from the following:**                                      .4

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**Plus 3-4 hours from the following:**                                      .3-4

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* 30482, Organic Chemistry (2)
* 30476, Organic Chemistry Lab (2)
* 30113, Instrumental Analysis (4)
* 30284, Introductory Biological Chemistry (4)
** 40555, Elementary Physical Chemistry (3)
** 40556, Elementary Physical Chemistry (3)
** 40567, Basic Concepts of Physical Chemistry (4)

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**B. Biological Sciences Option**

<table>
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<td>10120</td>
<td>Biological Foundations</td>
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<tr>
<td>20140</td>
<td>Cell Biology</td>
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<tr>
<td>30156</td>
<td>Elements of Genetics</td>
<td>.3</td>
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<tr>
<td>40163</td>
<td>Organic Evolution</td>
<td>.3</td>
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<tr>
<td>40430</td>
<td>General Physiology</td>
<td>.4</td>
</tr>
<tr>
<td>PHY 30020</td>
<td>Intermediate Physics Lab</td>
<td>.2</td>
</tr>
<tr>
<td>40020</td>
<td>Advanced Physics Lab</td>
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</table>

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

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CHEM 20481</td>
<td>Basic Organic Chemistry</td>
<td></td>
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<tr>
<td>30481</td>
<td>Organic Chemistry (4)</td>
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<tr>
<td>MATH 42045</td>
<td>Introduction to Partial Differential Equations</td>
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</table>

**Recommended additional courses:**

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>CHEM*30284</td>
<td>Introductory Biological Chemistry</td>
<td>.4</td>
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</tbody>
</table>

**CS 10061, Introduction to Computer Programming** (3)

---

**C. Applied Mathematics and Computer Science Option**

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CS 10051</td>
<td>Introduction to Computer Science</td>
<td>.4</td>
</tr>
<tr>
<td>23021</td>
<td>Introduction to Object-Oriented Programming</td>
<td>.3</td>
</tr>
<tr>
<td>33001</td>
<td>Data Structures</td>
<td>.3</td>
</tr>
<tr>
<td>PHY 30020</td>
<td>Intermediate Physics Lab</td>
<td>.2</td>
</tr>
<tr>
<td>40020</td>
<td>Advanced Physics Lab</td>
<td>.2</td>
</tr>
<tr>
<td>Physics electives</td>
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</tbody>
</table>

**Plus 6 hours from the following:**                                      .6

<table>
<thead>
<tr>
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<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 30102</td>
<td>Quantitative Analysis</td>
<td>.3</td>
</tr>
<tr>
<td>30156</td>
<td>Elements of Genetics</td>
<td>.3</td>
</tr>
<tr>
<td>33001</td>
<td>Data Structures</td>
<td>.3</td>
</tr>
<tr>
<td>40201</td>
<td>Introduction to Analysis I</td>
<td>.3</td>
</tr>
<tr>
<td>42045</td>
<td>Introduction to Partial Differential Equations</td>
<td>.3</td>
</tr>
<tr>
<td>40000-level Mathematics electives</td>
<td>.7</td>
<td></td>
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<tr>
<td>PHY 30020</td>
<td>Intermediate Physics Lab</td>
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<td>40020</td>
<td>Advanced Physics Lab</td>
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<tr>
<td>Physics electives</td>
<td>.6</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL 84-85**

---

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. This program satisfies requirements for a minor in chemistry.

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

*Students may complete either organic chemistry sequence, CHEM 20481 and 20482 or CHEM 30481 and 30482.
**CHEM 40555 covers primarily thermodynamics; many physics majors may benefit more from choosing CHEM 40556 (prerequisite CHEM 40555 or PHY 45301). Students who choose CHEM 40567 should not also take CHEM 40555 or 40556.

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

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

Courses that do not count toward the major:

PHY 11030, Seven Ideas that Shook the Universe (3)
21040, Physics in Entertainment and the Arts (3)
21430, Frontiers in Astronomy (3)
24001, Astronomy (3)
32551, Applied Engineering Mechanics (3)

### Russian Translation

It is strongly recommended that students in this program take ECON 22060 and 22061 as part of their Social Sciences requirement, and that they fulfill their Basic Sciences requirement with BSCI 10001, CHEM 10050 and GEOL 21062.

Prerequisites:

RUSS 12201, 12202, Elementary Russian I, II (8)
RUSS 22201, 22202, Intermediate Russian I, II (6)
Any portion of the prerequisites may be waived by demonstrated proficiency.

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

RUSS 32027, Russian Conversation ...................... 2
32211, Composition & Conversation ..................... 3
32215, Russian Phonetics & Diction .................... 3
32303, Modern Writers ..................................... 3
32421, Russian Civilization ............................... 4
42211, Advanced Comp./Conversation ................... 3
Any RUSS 30000-40000-level literature course ........ 3

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

MCLS 30230, Approaches to Translation ................. 3
40420, Foreign Lang. & Culture Studies ............... 3
RUSS 32231, Translation Practice ........................ 1
32240, Conv. for Bus. & Spec. Purposes ............... 3
42230, Advanced Translation Practice .................. 3
42240, Business and Special Texts ..................... 3

Choose one from: ........................................ 3

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

Choose one from: ........................................ 3

CS 10001, Computer Literacy (3)
10061, Intro. to Computer Programming (3)

M&IS 24053, Intro. to Computer Applications (3)
24070, Principles of Systems Development (3)

The courses offered under Section II 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.

### Spanish Translation

It is strongly recommended that students in this program take ECON 22060 and 22061 as part of their Social Sciences requirement, and that they fulfill their Basic Sciences requirement with BSCI 10001, CHEM 10050 and GEOL 21062.

Prerequisites:

SPAN 18201, 18202, Elementary Spanish I, II (8)
SPAN 28201, 28202, Intermediate Spanish I, II (6)
Any portion of the prerequisites may be waived by demonstrated proficiency.

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

SPAN 38211, Spanish Grammar & Composition ........ 3
38213, Spanish Reading & Conversation ............... 3
38215, Spanish Phonetics & Diction .................... 3
38421, Civilization of Spain ............................. 3
38424, Culture & Civ. of Latin America ............... 3
48215, Spanish Composition—Advanced ............... 3
Any SPAN 30000-40000-level literature course ........ 3

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

MCLS 30230, Approaches to Translation ................. 3
40420, Foreign Lang. & Culture Studies ............... 3
SPAN 38231, Translation Practice: Spanish ........... 1
38240, Conv. for Business & Special Purposes .......... 3
48230, Advanced Translation Practice .................. 3
48240, Business and Special Texts ..................... 3
Choose one from:  ........................................... 3
ENG  20002, Introduction to Technical Writing (3)
      30063, Business and Professional Writing (3)
Choose one from:  ........................................... 3
CS    10001, Computer Literacy (3)
      10061, Intro. to Computer Programming (3)
M&IS  24053, Intro. to Computer Applications (3)
      24070, Principles of Systems Development (3)
The courses offered under Section II 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
SPAN 38231 are taken concurrently.

III. Subject Area Specialty ...................................... 39
The Subject Area Specialty is a departmentally approved coher-
ent sequence of courses in one or more other disciplines (i.e.,
not in the Department of Modern and Classical Language Studies).
In order to be approved, the Subject Area Specialty must
include courses in an area or areas that are currently marketable,
such as business, legal studies, international relations, political
science, computer science, chemistry, physics or other “hard”
sciences.
The Subject Area Specialty may include up to 17 hours of a dif-
ferent language in the sequence through composition/conversa-
tion. It may also optionally include MCLS 28405, The Spanish
Experience.

TOTAL 82

Zoology
(Also see “Note” under Biological Sciences entry in Course
Descriptions section of this Catalog.)

Core courses:
BSCI  10110, Biological Diversity ......................... 4
      10120, Biological Foundations ................... 4
      30156, Elements of Genetics .................... 3
      40163, Organic Evolution ......................... 3
CHEM  10060, 10061, General Chemistry I, II ............ 8
      10062, 10063, General Chemistry Lab I, II ........ 2
MATH  *12002, Analytic Geometry and Calculus I .......... 5

Complete 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 one from:  ................................. 4
CHEM  20481, Basic Organic Chemistry (4)

30481, Organic Chemistry (4)
**Choose one from:  ................................... 2
CHEM  20482, Basic Organic Chemistry (2)
      30475, Organic Chemistry Lab (2)
      30482, Organic Chemistry (2)
Choose one from:  ...................................... 3-5
MATH  12003, Analytic Geometry and Calculus II (5)
      30011, Basic Probability and Statistics (3)

Required courses ........................................... 12
Select 12 hours from any of the following courses:
BSCI  20140, Cell Biology (4)
      20560, Invertebrate Zoology (4)
      30171, General Microbiology (4)
      30360, General Ecology (4)
      30518, Vertebrate Anatomy (4)
      30519, Vertebrate Embry/Dev. Anat. (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)

Guided biology and science electives  .................... 26
BSCI Electives**
Select any combination of BSCI courses other than those used to
meet the 12-hour requirement, additional organic chemistry,
and/or college or university physics (of those listed below). See
the Course Descriptions section in the back of this Catalog or
www.kent.edu/biology for a complete list of BSCI courses. Stu-
dents should consult with a zoology advisor to determine the
most appropriate courses given their disciplinary interests and
career aspirations.
CHEM  20482, Basic Organic Chemistry (2)
      or 30482, Organic Chemistry (2)
      30475, Organic Chemistry Laboratory (2)
      30476, Organic Chemistry Laboratory (2)
PHY   13001, General College Physics I (5)
      or 23101, General University Physics I (5)
      13002, General College Physics II (5)
      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 chem-
istry course requirement with approval of the major advisor.
**THREE-PLUS-ONE PROGRAM**

**General Requirements**

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

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

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

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**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 dependent upon a student’s ability to secure placement with one of the hospital affiliates. The university does not assume responsibility or liability for completion of the major in cases of student dismissal from a hospital program or loss of hospital training sites due to program closures beyond university control. For their professional study, students register through Kent State University for the CLS courses taught in the hospital facility.

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

---

**Years 1-3**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>10001</td>
<td>University Orientation</td>
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<td><strong>BSCI</strong></td>
<td>10110</td>
<td>Biological Diversity</td>
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<td></td>
<td>10120</td>
<td>Biological Foundations</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>20140</td>
<td>Cell Biology</td>
<td>4</td>
</tr>
<tr>
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<td>30030</td>
<td>Human Physiology</td>
<td>4</td>
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<td></td>
<td>30050</td>
<td>Human Genetics</td>
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<td></td>
<td>30171</td>
<td>General Microbiology</td>
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<td></td>
<td>40174</td>
<td>Immunology</td>
<td>3</td>
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<td>40581</td>
<td>Animal Parasitology</td>
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<td><strong>CHEM</strong></td>
<td>10060, 10061</td>
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<td>30100</td>
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<td>30284</td>
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<td><strong>CS</strong></td>
<td>10061</td>
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<td><strong>ENG</strong></td>
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<td><strong>MATH</strong></td>
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<td>30011</td>
<td>Basic Probability &amp; Statistics</td>
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<tr>
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<tr>
<td><strong>Social Science LERs</strong></td>
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</table>

Refer to the university and College of Arts and Sciences Liberal Education and Diversity Requirements. Note: students majoring in medical technology are not required to meet the foreign language proficiency requirement.
PREMEDICAL PROGRAMS

Program Requirements

Students pursuing a premedical 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 premedical program. The first major must be in the College of Arts and Sciences.

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

**Predentistry**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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<td>BSCI</td>
<td>10120, Biological Foundations                      4</td>
</tr>
<tr>
<td></td>
<td>20140, Cell Biology                                 4</td>
</tr>
<tr>
<td>CHEM</td>
<td>30475, 30476, Organic Chemistry Lab                4</td>
</tr>
<tr>
<td></td>
<td>12001, Algebra and Trigonometry                     4</td>
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**Choose Group One or Group Two:** 10

**Group One**

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM</td>
<td>10060, 10061, Gen. Chemistry I, II (4 each)</td>
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<tr>
<td></td>
<td>10062, 10063, General Chemistry Labs I, II (1 each)</td>
</tr>
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**Group Two**

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<th>Course</th>
<th>Credits</th>
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</thead>
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<td>CHEM</td>
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**Choose one from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM</td>
<td>30481, 30482, Organic Chemistry (6)</td>
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<tr>
<td></td>
<td>30481, 30482, Basic Organic Chemistry (6)</td>
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**PHY**

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<td>23101, 23102, Gen. University Physics I, II (10)</td>
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**Choose two from:**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI</td>
<td>30156, Elements of Genetics (3)</td>
</tr>
<tr>
<td></td>
<td>30171, General Microbiology (4)</td>
</tr>
<tr>
<td></td>
<td>30518, Vertebrate Anatomy (4)</td>
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<tr>
<td></td>
<td>30519, Vertebrate Embryol./Develop. Anatomy (4)</td>
</tr>
<tr>
<td></td>
<td>40430, General Physiology (4)</td>
</tr>
</tbody>
</table>

**TOTAL 49-50**

Some dental schools may also require the following strongly recommended courses: CHEM 30100, 30101, 30102, 30113, 30284, MATH 12002. Distributive requirements in the social sciences should be taken in the behavioral science areas (sociology and psychology).

**Premedicine, Preosteopathy, Preveterinary Medicine**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI</td>
<td>10120, Biological Foundations                      4</td>
</tr>
<tr>
<td></td>
<td>20140, Cell Biology                                 4</td>
</tr>
<tr>
<td>CHEM</td>
<td>30475, 30476, Organic Chemistry Lab                4</td>
</tr>
<tr>
<td>MATH</td>
<td>12002, Analytic Geometry and Calculus I            5</td>
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</table>

**Choose Group One or Group Two:** 10

**Group One**

<table>
<thead>
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<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM</td>
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**Group Two**

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CHEM</td>
<td>10960, 10961, Honors Gen. Chemistry (5 each)</td>
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</table>

**Choose two from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSCI</td>
<td>30156, Elements of Genetics (3)</td>
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<td>30171, General Microbiology (4)</td>
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<td>30518, Vertebrate Anatomy (4)</td>
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<td></td>
<td>30519, Vertebrate Embryol./Develop. Anatomy (4)</td>
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<tr>
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<td>40430, General Physiology (4)</td>
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</table>

**TOTAL 7-8**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM</td>
<td>20481, 20482, Basic Organic Chemistry (6)</td>
</tr>
<tr>
<td></td>
<td>30481, 30482, Organic Chemistry (6)</td>
</tr>
</tbody>
</table>

**TOTAL 121**
Choose one from: . . . . . . . . . . . . . . . . . . . . . . . . .10
PHY 13001, 13002, General College Physics I, II (10)
23101, 23102, General University Physics I, II (10)

TOTAL 50-51

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

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

Veterinary Medicine. The current “Admission Guidelines” of The Ohio State University (OSU) College of Veterinary Medicine indicate that, in order to be eligible for “admission without condition,” students pursuing the Kent State premed program should select BSCI 30156, Elements of Genetics, and 30171, General Microbiology, from among the biological sciences options and should add either CHEM 30284, Introductory Biological 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 30111, 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 hours must be at the upper-division (30000-40000) level. Students must complete the degree with at least a 2.00 accumulative GPA.

Students pursuing the B.G.S. must complete the university’s Liberal Education, Diversity and Writing-Intensive Course Requirements as described on Pages 81-91 of this Catalog. Courses taken to satisfy the Social Sciences must be taken in at least two curricular areas (e.g., ANTH, ECON, etc.). Courses taken to satisfy the LERs should be carefully chosen to fit in with the overall B.G.S. program. University and college requirements apply to this degree.

1) A minimum of 3 semester hours in mathematics, logic or computer science; and 2) a minimum of at least one laboratory science within the 6-hour Basic Sciences LER category. To complete the Math/Logic/Foreign Language requirement, students may choose one additional math/logic course or 8 hours of the same foreign language. Courses taken to satisfy the Social Sciences must be taken in at least two curricular areas (e.g., ANTH, ECON, etc.). Courses taken to satisfy the LERs should be carefully chosen to fit in with the overall B.G.S. program. University and college requirements apply to this degree.

Coursework Restrictions
All of the limitations on the applicability of credit described on Pages 128-129 apply to the B.G.S. These limitations affect applied and nontraditional coursework, applied music and music ensembles, native languages other than English, physical education activity courses and ROTC courses.

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

No more than 42 semester hours from academic areas outside the College of Arts and Sciences will be counted toward graduation. Of these 42 hours, no more than 24 hours in any one department may be counted towards degree completion.

Students who already have completed the course or hour requirement for another arts and sciences major may not be admitted to the B.G.S. program unless given special permission by the 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; acknowledgement of the nontraditional nature of the degree, and recognition that the degree falls outside the pattern of standard degrees; and a statement declaring full responsibility for one’s B.G.S. program.

Submit a proposed program plan of study, consisting of at least three academic departments (e.g. history, political science and sociology) from which courses will be selected. The program plan will provide a formula of academic departments from which courses are selected to meet remaining requirements (e.g. 9 hours history + 6 hours political science + 6 hours sociology + 6 hours math + 3 hours electives). The plan must include remaining Liberal Education, 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 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.

However, regardless of remaining total and upper-division requirements, the program plan MUST include a maximum 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 rational.

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

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 premedical sciences. It also includes orientation to clinical medicine and work in the humanities.

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

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

**Phase I Curriculum (B.S. in ILS)**

**Year 1**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Summer 1</td>
<td>US 10001</td>
<td>University Orientation</td>
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<tr>
<td></td>
<td>PSYC 11762</td>
<td>General Psychology</td>
<td>3</td>
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<td></td>
<td>SOC 22100</td>
<td>Sociological Analysis</td>
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<td>Fall 1</td>
<td>BSCI 10120</td>
<td>Biological Foundations</td>
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<td></td>
<td>CHEM 10960</td>
<td>Honors Gen. Chem. I</td>
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<tr>
<td></td>
<td>HONR 10197</td>
<td>Fresh. Colloquium I</td>
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<tr>
<td></td>
<td>ILS 21091</td>
<td>ILS Seminar I</td>
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<tr>
<td></td>
<td>MATH 12021</td>
<td>Calculus for Life Sciences</td>
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<td>Spring 1</td>
<td>BSCI 20140</td>
<td>Cell Biology</td>
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<td>CHEM 10961</td>
<td>Honors General Chemistry II</td>
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<td>HONR 10297</td>
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<td>ILS 21092</td>
<td>ILS Seminar II</td>
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<td>SOC 42563</td>
<td>Sociology of Health and Health Care</td>
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**Year 2**

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<tr>
<td>Summer 2</td>
<td>BSCI 30156</td>
<td>Elements of Genetics</td>
<td>3</td>
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<tr>
<td></td>
<td>ILS 32592</td>
<td>Soc. Perspectives in Public Health</td>
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<td></td>
<td>42591</td>
<td>Med. Soc. Research Skills</td>
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<td></td>
<td>42592</td>
<td>Med. Soc. Practicum</td>
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<td>Fall 2</td>
<td>BSCI 30171</td>
<td>Gen. Microbiology</td>
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<td>CHEM 30475</td>
<td>Organic Chem. Lab</td>
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<td>30481</td>
<td>Organic Chemistry</td>
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<td></td>
<td>ILS 32091</td>
<td>ILS Seminar III</td>
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<td></td>
<td>PHY 13001</td>
<td>General College Physics I</td>
<td>5</td>
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**Spring 2:**

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<tr>
<td>BSCI 30519</td>
<td>Vertebrate Embryology and Dev. Anatomy</td>
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<tr>
<td>CHEM 40245</td>
<td>Biochem. Found. of Medicine</td>
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<tr>
<td>ILS 32092</td>
<td>ILS Seminar IV</td>
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<tr>
<td>MATH 12022</td>
<td>Prob. and Statistics for Life Sciences</td>
<td>3</td>
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<tr>
<td>PHY 13002</td>
<td>Gen. College Physics II</td>
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<td>or</td>
<td>23102, General University Physics II</td>
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**Summer 3:**

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<td>ILS 30392</td>
<td>Psychological Helping Skills for Medicine</td>
<td>3</td>
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<tr>
<td>40392</td>
<td>Med. Psych. Practicum</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 40111</td>
<td>Abnormal Psychology</td>
<td>3</td>
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<tr>
<td>Humanities or Electives</td>
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<td></td>
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<td></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Humanities and Electives**

**THE HUMANITIES COMPONENT (18):**

Objectives: 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.

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

- History
- Literature
- Philosophy

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 NEOLICOM “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 85-87.)

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 44242-0091, 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.

Biotechnology
The interdisciplinary Bachelor of Science in Biotechnology curriculum at Kent State University is designed to provide a strong academic foundation in biological sciences and chemistry, practical training in the various biotechnologies and a solid understanding of their application in industry and biomedicine. The curriculum includes a research experience at Kent and/or an internship in a biotechnology or pharmaceutical company. Registration for the internship requires approval of the program director and also is dependent on the availability of internship sites. Modern biotechnologies are applied in many beneficial ways in agriculture, health care, industrial processing and environmental management. Biotechnology graduates have employment opportunities in biomedical research and in the rapidly growing biotechnology and pharmaceutical industry.

MAJOR REQUIREMENTS .......................... 96-99

<table>
<thead>
<tr>
<th>BSCI</th>
<th>10120, Biological Foundations</th>
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<tbody>
<tr>
<td></td>
<td>20140, Cell Biology</td>
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<tr>
<td></td>
<td>30156, Elements of Genetics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>30171, General Microbiology</td>
<td>4</td>
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<tr>
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<td>40158, Molecular Biology</td>
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<td>40159, Molecular Biology Lab</td>
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<tr>
<td></td>
<td>40174, Immunology</td>
<td>3</td>
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<td>BTEC</td>
<td>10210, Introduction to Biotechnology</td>
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<tr>
<td></td>
<td>40191, Seminar: Recent Dev. in Biotechnology</td>
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<tr>
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<td>40210, Case Studies in Biotechnology</td>
<td>3</td>
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<td>40220, Bioinformatics</td>
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<tr>
<td>BUS</td>
<td>10123, Exploring Business</td>
<td>3</td>
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<tr>
<td>CHEM</td>
<td>10060, 10061, General Chemistry I, II</td>
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<td>10062, 10063, General Chemistry Lab, I, II</td>
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<td>4</td>
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<td>30100, Aqueous Equilibrium</td>
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<td>30101, Quantitative Analysis</td>
<td>2</td>
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<tr>
<td></td>
<td>30284, Introductory Biological Chemistry</td>
<td>4</td>
</tr>
</tbody>
</table>
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.

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

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

*See Pages 121-122 for lists of departmental and interdisciplinary minors.
42075, International Economic Relations (3)
42076, Economic Development (3)
GEOG 37040, Geography of Africa (3)
HIST 31130, History of African Civilization (3)
41131, History of Africa to 1880 (3)
41132, History of Africa: 1880-Present (3)
41135, History of West Africa (3)
MUS 42111, African Music and Cultures (3)
42095, Special Topics in the Literature of Pan-Africa (3)
41131, History of Africa to 1880 (3)
41132, History of Africa: 1880-Present (3)
41135, History of West Africa (3)
MUS 42111, African Music and Cultures (3)
42095, Special Topics in the Literature of Pan-Africa (3)
TOTAL 18

Minimum cumulative 2.00 GPA required.

American Sign Language

Prerequisites:
ASL 19201, 19202, Elementary American Sign Language I, II (8)
ASL 29201, 29202, Intermediate American Sign Language I, II (6)

ASL 39201, 39202, Advanced American Sign Language I, II (6)
49092, Practicum: Deaf Residential School ............... 1
49101, Deaf Culture and Community .................. 3
49105, Signed English and Manually Coded English
Systems ............................................. 3
49108, ASL Linguistics and Usage ..................... 3
49309, Introduction to Deaf Studies ................. 3
TOTAL 19

Minimum cumulative 2.00 GPA required.

American Studies

(Shirley Wajda, 305 G Bowman Hall)

Drawing on coursework in history, literature, the arts and the social sciences, the American studies minor offers a broad introduction to American culture. This program takes an interdisciplinary approach to American life and thought, encouraging the drawing of connections among various aspects of American culture.

AMST 10001, Introduction to American Studies ........ 3
40197, Senior Colloquium in American Studies ....... 3
American Literature: ........................................ 6
ENG 33001, U.S. Literature to 1865 (3)
33002, U.S. Literature from 1865 to 1945 (3)
33003, U.S. Literature from 1945 to Present (3)
33011, African-American Literature (3)
34021, Women’s Literature (3)
36001, Literary Criticism (3)
39695, Topics in Ethnic Literature of the U.S. (3)

American History: .............................................. 6
HIST 31070, History of American Business Enterprise (3)
31078, African American History (3)
41056, History of Colonial America: 1492-1714 (3)
41057, Eighteenth-Century America: 1714-1789 (3)
41069, Recent America: The United States, 1929-Present (3)
41070, American Social and Intellectual History, 1790-1876 (3)
41071, American Social and Intellectual
History, 1876-Present (3)
41074, American Economic History (3)
41079, History of the Immigrant in America (3)
41083, U.S. Foreign Relations Through World War I (3)
41084, U.S. Foreign Relations From 1920 (3)

Pan-African Studies: ........................................... 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)

Plus 6 hours in the arts or 6 hours in methods: ........... 6

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

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 and Beyond (3)
POL 40112, Politics and the Mass Media (3)
40116, Political Opinion and Political Behavior (3)
40830, U.S. Foreign Policy (3)
TOTAL 27

American Sign Language

Prerequisites:
ASL 19201, 19202, Elementary American Sign Language I, II (8)
ASL 29201, 29202, Intermediate American Sign Language I, II (6)

ASL 39201, 39202, Advanced American Sign Language I, II (6)
49092, Practicum: Deaf Residential School ............... 1
49101, Deaf Culture and Community .................. 3
49105, Signed English and Manually Coded English
Systems ............................................. 3
49108, ASL Linguistics and Usage ..................... 3
49309, Introduction to Deaf Studies ................. 3
TOTAL 19

Minimum cumulative 2.00 GPA required.

American Studies

(Shirley Wajda, 305 G Bowman Hall)

Drawing on coursework in history, literature, the arts and the social sciences, the American studies minor offers a broad introduction to American culture. This program takes an interdisciplinary approach to American life and thought, encouraging the drawing of connections among various aspects of American culture.

AMST 10001, Introduction to American Studies ........ 3
40197, Senior Colloquium in American Studies ....... 3
American Literature: ........................................ 6
ENG 33001, U.S. Literature to 1865 (3)
Appropriate special topics courses, particularly those in American studies, may be substituted for courses listed above if approved by the program coordinator.

Minimum cumulative 2.00 GPA required.

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

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

Ancient, Medieval and Renaissance Studies

(Susanna Fein and Isolde Thyrêt, 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 hours and 15-16 upper-division hours—in at least three disciplines. No more than 6 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 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

Choose two of the following from two disciplines:

ANTH 18210, Introduction to Cultural Anthropology (3)
18420, Introduction to Archaeology (3)
ARCH 10011, Survey of Architectural History I (3)
10012, Survey of Architectural History II (3)
ARTH 22006, Art History I: Ancient and Medieval Art (3)
22007, Art History II: Renaissance to Modern Art (3)
CLAS 21404, The Greek Achievement (3)
21405, The Roman Achievement (3)
ENG 21054, Introduction to Shakespeare (3)

22071, Great Books I (3)
25001, Literature in English I (3)
FD&M 20011, History of Costume I (3)
HIST 11050/HONR 13197, History of Civilization I (3)
MUS 32211, Music History to 1750 (3)
PHIL 21020, Comparative Religious Thought I (3)

Upper-Division Electives .............................. 15-16

Choose five of the following from at least three disciplines:

ANTH 38250, Religion: A Search for Meaning (3)
38260, Patterns of Peasant Life (3)
38420, Prehistory: Urbanism (3)
ARCH 45201, History of Architecture I (3)
45202, History of Architecture II (3)
45210, Renaissance Architecture (3)
45211, Baroque Architecture (3)
ARTH 42036, Medieval Art (3)
42039, Gothic Art, 12th to 15th Centuries (3)
42041, Italian Renaissance Art (3)
42042, Northern Renaissance Art (3)
42046, Baroque Art of the 17th Century (3)
42095, ST: High Renaissance Art (3)
CLAS/HIST 41006, Roman History (3)
41097, Colloquium in Classics (3)
41301, Classical Mythology (3)
41401/ARTH 42031, Greek Archaeology and Art (3)
41402/ARTH 42032, Roman Archaeology and Art (3)
41503, Greek Literature in Translation (3)
ENG 31002, History of the English Language (3)
34001, British Literature to 1500 (3)
34002, British Literature from 1500 to 1660 (3)
34055, Shakespeare (3)
34065, Chaucer (3)
34095, ST: John Milton (3)
35201, The Bible as Literature (3)
39895, ST: Classical Rhetorical Theory (3)
39995, ST: Arthurian Romance (3)
FR 43352, Montaigne and Rabelais (3)
GER 41331, History of German Literature (4)
GRE 34350, Advanced Prose Authors (3)
34351, New Testament in Greek (3)
34370, Plato: Apology and Phaedo (3)
34371, Homer (3)
44352, Greek Drama (3)
HIST 31009, History of Byzantine Civilization (3)
31027, History of England to 1688 (3)
31127, Ancient and Early Medieval Jewish History (3)
31128, Late Medieval and Modern Jewish History (3)
41010, The Early Middle Ages (3)
41011, The High Middle Ages (3)
41014, Europe in the Renaissance (3)
### Anthropology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>41016</td>
<td>The Protestant and Catholic Reformations (3)</td>
<td></td>
</tr>
<tr>
<td>41017</td>
<td>Seventeenth-Century Europe (3)</td>
<td></td>
</tr>
<tr>
<td>41026</td>
<td>Tudor England 1485-1603 (3)</td>
<td></td>
</tr>
<tr>
<td>41034</td>
<td>Russia from its Origins to 1801 (3)</td>
<td></td>
</tr>
<tr>
<td>41097</td>
<td>Coll: Saints, Monks and the Medieval Community (3)</td>
<td></td>
</tr>
<tr>
<td>42397</td>
<td>Coll: Women in Europe from Antiquity to the Renaissance (3)</td>
<td></td>
</tr>
<tr>
<td>LAT 36170</td>
<td>Cicero (3)</td>
<td></td>
</tr>
<tr>
<td>LAT 36171</td>
<td>Vergil (3)</td>
<td></td>
</tr>
<tr>
<td>LAT 36351</td>
<td>Latin Comedy (3)</td>
<td></td>
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<tr>
<td>LAT 36372</td>
<td>Lyric Poetry (3)</td>
<td></td>
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<tr>
<td>LAT 36373</td>
<td>Advanced Prose Authors (3)</td>
<td></td>
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<tr>
<td>LAT 46095</td>
<td>Selected Topics in Latin (3)</td>
<td></td>
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<tr>
<td>LAT 46352</td>
<td>Elegaic Poets (3)</td>
<td></td>
</tr>
<tr>
<td>LAT 46374</td>
<td>Juvenal's Satires and Martial's Epigrams (3)</td>
<td></td>
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<tr>
<td>LAT 46375</td>
<td>Lucretius (3)</td>
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### Applied Conflict Management

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CACM 11001</td>
<td>Introduction to Conflict Management</td>
<td>3</td>
</tr>
<tr>
<td>21002</td>
<td>Gender, Power and Conflict</td>
<td>3</td>
</tr>
<tr>
<td>31003</td>
<td>Nonviolence: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>31004</td>
<td>Conflict Theory</td>
<td>3</td>
</tr>
<tr>
<td>38080</td>
<td>Mediation: Theory and Training</td>
<td>3</td>
</tr>
</tbody>
</table>

### Applied Mathematics

**Prerequisites:**
- CS 10051, Intro. to Computer Science (4)
- MATH 12001, Algebra and Trigonometry (4)
- 12002, Analytic Geometry and Calculus I (5)
- 12003, Analytic Geometry and Calculus II (5)

**Core Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>18210</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>18420</td>
<td>Introduction to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>38630</td>
<td>Principles of Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>plus 3 additional upper-division elective hours</td>
<td>3</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>38480</td>
<td>Archaeological Analysis (3)</td>
<td></td>
</tr>
<tr>
<td>48225</td>
<td>Archaeology of Death (3)</td>
<td></td>
</tr>
<tr>
<td>48425</td>
<td>Prehistory: Mesoamerica (3)</td>
<td></td>
</tr>
<tr>
<td>48440</td>
<td>Prehistory: Ohio (3)</td>
<td></td>
</tr>
</tbody>
</table>
### Elective Courses

Three courses selected from the following in consultation with the student’s minor advisor.

- **CS** 33001, Data Structures (3)
- **MATH** 23022, Discrete Structures for Computer Science (3)
  - 31011, Discrete Mathematics (3)
  - 40011, Intro. to Probability Theory and Applications (3)
  - 40012, Intro. to Statistical Concepts (3)
  - 40041, Statistical Methods for Experiments (3)
  - 40042, Sampling Theory (3)
  - 40051, Topics in Probability Theory and Stochastic Processes (3)
- 41021, Theory of Matrices (3)
- 42011, Mathematical Optimization (3)
- 42031, Mathematical Models and Dynamical Systems (3)
- 42041, Advanced Calculus (3)
- 42045, Introduction to Partial Differential Equations (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)

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

Minimum cumulative 2.00 GPA required.

### Asian Studies

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

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

**Nonlanguage courses**

- ANTH* 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)
  - 41112, History of Modern China (3)
  - 41114, Economic History of E. Asia in Modern Times (3)
  - 41116, History of Japan (3)
  - 42297, Colloq. on Contemporary China and Japan (3)
  - *49196, Individual Investigation (2-3)
- **MUS** 42151, Asian Music (3)
  - *45311, Chamber Music (1-2)
- **POL** 30530, Asian Politics (3)
  - *40996, Individual Investigation (1-3)
  - *40995, Selected Topics in Political Science (1-3)

**Language courses**

- CHIN 15101, 15102, 25201, 25202 (14)
- HRTG 10101, 10102, 20201, 20202 (14)
- JAPN 15101, 15102, 25201, 25202 (14)

**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.

### Biological Sciences

**Prerequisites:**

- CHEM 10060, 10061, General Chemistry I, II (8)
- 10062, 10063, Gen. Chemistry Lab I, II (2)
- **MATH** 12001, Algebra and Trigonometry (4)

**Core Courses:**

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

**Biology Elective Courses:**

Select 8 hours from any combination of BSCI courses. See the Course Descriptions section in the back of this Catalog or 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** 22

Minimum cumulative 2.00 GPA required.
British Studies

(Alison Fletcher, Coordinator, 305 Bowman Hall)

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

**British Literature**

9

three of the following representing at least two literary periods:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 31002, History of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34001, British Literature to 1500</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34002, British Literature from 1500 to 1660</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34003, British Literature from 1660 to 1800</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34004, British Literature from 1800 to 1900</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34005, British and Irish Literature from 1900 - Present</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3411, World Literature in English</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34055, Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34065, Chaucer</td>
<td>3</td>
</tr>
<tr>
<td>ENG 34095, Topics: Major Author Studies (British)</td>
<td>3</td>
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</tbody>
</table>

**British History**

9

three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 31027, History of England to 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31028, History of England Since 1688</td>
<td>3</td>
</tr>
<tr>
<td>HIST 31029, History of the British Empire and Commonwealth Since 1815</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41026, Tudor England, 1485-1603</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41028, Hanoverian England</td>
<td>3</td>
</tr>
<tr>
<td>HIST 41031, Modern British Intellectual History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 43697, Colloquium in Tudor and Stuart England</td>
<td>3</td>
</tr>
<tr>
<td>HIST 43797, Colloquium on Victorian England</td>
<td>3</td>
</tr>
</tbody>
</table>

**British Civilization**

3

one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 42036, Medieval Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 42042, Northern Renaissance Art</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 31004, British Empiricism</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 41077, British and American Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**TOTAL** 21

Minimum cumulative 2.00 GPA required.

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**Business French**

Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR 13201, 13202, Elementary French I, II</td>
<td>8</td>
</tr>
<tr>
<td>FR 23201, 23202, Intermediate French I, II</td>
<td>6</td>
</tr>
</tbody>
</table>

Prerequisites can be waived by demonstrated language proficiency.

<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>FR 33212, French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FR 33215, French Phonetics &amp; Diction</td>
<td>3</td>
</tr>
<tr>
<td>FR 33240, Conversation for Business &amp; Special Purposes</td>
<td>3</td>
</tr>
<tr>
<td>FR 33421, French Civilization</td>
<td>3</td>
</tr>
<tr>
<td>GER 43240, Business and Special Texts</td>
<td>3</td>
</tr>
<tr>
<td>MCLS 40420, Foreign Language and Culture Studies</td>
<td>3</td>
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</tbody>
</table>

**TOTAL** 21

FR 33240 is offered only in the fall of even-numbered years, and 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.

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**Business German**

Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER 11201, 11202, Elementary German I, II</td>
<td>8</td>
</tr>
<tr>
<td>GER 21201, 21202, Intermediate German I, II</td>
<td>6</td>
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</table>

Prerequisites can be waived by demonstrated language proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER 31201, Intensive German Grammar</td>
<td>3</td>
</tr>
<tr>
<td>GER 31211, German Composition/Conversation</td>
<td>3</td>
</tr>
<tr>
<td>GER 31215, German Phonetics &amp; Diction</td>
<td>3</td>
</tr>
<tr>
<td>GER 31240, Conv. for Bus. &amp; Special Purposes</td>
<td>3</td>
</tr>
<tr>
<td>GER 31421, German Civilization</td>
<td>3</td>
</tr>
<tr>
<td>GER 41240, Business and Special Texts</td>
<td>3</td>
</tr>
<tr>
<td>MCLS 40420, Foreign Language Culture Studies</td>
<td>3</td>
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</table>

**TOTAL** 21

GER 31240 is offered only in the fall of even-numbered years, and 41240 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.

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**Business Russian**

Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RUSS 12201, 12202, Elementary Russian I, II</td>
<td>8</td>
</tr>
<tr>
<td>RUSS 22201, 22202, Intermediate Russian I, II</td>
<td>6</td>
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</table>

Prerequisites can be waived by demonstrated language proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MCLS 40420, Foreign Lang. &amp; Culture Studies</td>
<td>3</td>
</tr>
<tr>
<td>RUSS 32207, Russian Conversation</td>
<td>2</td>
</tr>
<tr>
<td>RUSS 32211, Composition &amp; Conversation</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum cumulative 2.00 GPA required.
32215, Russian Phonetics & Diction .................... 3
32240, Conv. for Bus. & Spec. Purposes ................ 3
32421, Russian Civilization ............................. 4
42240, Business and Special Texts ....................... 3

TOTAL 21

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

Minimum cumulative 2.00 GPA required.

Business Spanish

Prerequisites:
SPAN 18201, 18202, Elementary Spanish I, II (8)
SPAN 28201, 28202, Intermediate Spanish I, II (6)
Prerequisites can be waived by demonstrated language proficiency.

MCLS 40420, Foreign Lang. & Culture Studies ............ 3
SPAN 38211, Spanish Grammar & Composition ........... 3
38213, Spanish Reading & Conversation .................. 3
38215, Spanish Phonetics & Diction ...................... 3
38240, Conv. for Business & Special Purposes ............ 3
48240, Business and Special Texts ....................... 3

Choose one from: ............................. 3

38421, Civilization of Spain (3)
38424, Culture & Civ. of Latin America (3)

TOTAL 21

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

Minimum cumulative 2.00 GPA required.

Cartography

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

The cartography minor is intended to provide expertise in mod-
ern mapmaking. It is especially designed to meet federal govern-
mental standards for the employment of cartographers.

Requirements:
GEOG 29160, Intro. to Maps and Map Analysis ............. 3
39161, Intro. to Cartography ............................ 3
39162, Intro. to Cartography Lab ....................... 1

49165, GeoMapping ....................................... 3
Electives* .................................................. 3-8
At least two of: ..................................... 6-8
GEOG 49070, Geographic Information Science (3)
49162, 49163, Advanced Cartography and Lab (4)
49198, Research in Cartography and GIS (3)
49210, 49211, Earth Imagery and Lab (4)
At least two of: ..................................... 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)

TOTAL 30

*Electives may be chosen from any of the above or from: GEOG
21062, 31064, 32061; GEOL 21062, 21080; ARCH 45631,
45630; VCD 17000. Other electives may be appropriate but must
have prior approval of the program coordinator.

Minimum cumulative 2.00 GPA required.

Chemistry

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

Core Courses:
CHEM 30100, Aqueous Equilibrium ......................... 2
30475, Organic Chemistry Lab .......................... 2

Choose one from: ..................................... 4
CHEM 20481, Basic Organic Chemistry (4)
30481, Organic Chemistry (4)

Choose 4 hours from: .................................... 4
CHEM 30101, Quantitative Analysis (2)
30102, Solution Chemistry Lab (2)
30284, Introductory Biological Chemistry (4)

Choose 3-4 hours from: (if not taken above) .......... 3-4
CHEM 30101, Quantitative Analysis (2)
30102, Solution Chemistry Lab (2)
30113, Instrumental Analysis (4)
30284, Introductory Biological Chemistry (4)
30476, Organic Chemistry Lab (2)
CHEM 20482, Basic Organic Chemistry (2)
or
30482, Organic Chemistry (2)
40555, Elementary Physical Chemistry (3)
or
40556, Elementary Physical Chemistry (3)
or
40567, Basic Concepts of Physical Chemistry (4)

TOTAL 25-26

Minimum cumulative 2.00 GPA required.

Classics

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

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

Latin or Greek

Prerequisites:
GRE 14201, 14202, Elem Classical Greek I, II (8)
or
LAT 16201, 16202, Elementary Classical Latin I, II (8)

Note: Prerequisites may be waived by demonstrated proficiency.

Classical Language and Literature Courses: ............... 6
GRE 24201, Inter. Class. Greek I (3)
24202, Inter. Class. 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 Transl. (3)
CLAS/HIST41006, Roman History (3)
HIST 41003, History of Ancient Greece (3)
Any Latin course at the 30000-40000 level (3)
Any Greek course at the 30000-40000 level (3)

TOTAL 18

Minimum cumulative 2.00 GPA required.

Climatology

(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 will learn about potential climate change and how to understand and forecast its potential impacts. Students also will 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 .......... 5
Two of the following .................. 6
GEOG 41062, Advanced Physical Geography (3)
41050, Polar and Alpine Environments (3)
41265, Urban Climatology (3)
Or any other GEOG 40000-level courses, as approved by the coordinator.

TOTAL 25

Minimum cumulative 2.00 GPA required.

Comparative Literature

(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 10001, 10002, College English I, II (6)
14 hours in an appropriate language or equivalent in established proficiency.

Comparative Literature Core
A&S 30891, Introductory Seminar in Comparative Literature . 4
40897, Colloquium in Comparative Literature ........ 4

National Literature .................. 6
6 hours of one national literature (other than major) chosen from one of the lists of courses below
ENG 33001, U.S. Literature to 1865 (3)
33002, U.S. Literature from 1865 to 1945 (3)
33003, U.S. Literature from 1945 to Present (3)
34001, British Literature to 1500 (3)
34002, British Literature from 1500 to 1660 (3)
34003, British Literature from 1660 to 1800 (3)
College of Arts and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>34004</td>
<td>British Literature from 1800 to 1900</td>
<td>3</td>
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<tr>
<td>34005</td>
<td>British and Irish Literature from 1900 - Present</td>
<td>3</td>
</tr>
<tr>
<td>34055</td>
<td>Shakespeare</td>
<td>3</td>
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<tr>
<td>34065</td>
<td>Chaucer</td>
<td>3</td>
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<td>35101</td>
<td>Literature and Other Disciplines</td>
<td>3</td>
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<tr>
<td>39195</td>
<td>Topics in Drama</td>
<td>3</td>
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<tr>
<td>39295</td>
<td>Topics in Poetry</td>
<td>3</td>
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<tr>
<td>39395</td>
<td>Topics in Fiction</td>
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<tr>
<td>FR 33335</td>
<td>Intro. to French Theatre</td>
<td>3</td>
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<tr>
<td>33336</td>
<td>Intro. to French Poetry</td>
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<td>33337</td>
<td>Intro. to French Novel</td>
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<tr>
<td>43366</td>
<td>Studies in 19th-Century French Literature</td>
<td>3</td>
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<tr>
<td>43368</td>
<td>20th-Century French Novel</td>
<td>3</td>
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<td>43370</td>
<td>20th-Century French Theatre</td>
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<tr>
<td>GER 3103</td>
<td>Introduction to German Literature</td>
<td>3</td>
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<td>plus any one of the following:</td>
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<tr>
<td>41331</td>
<td>History of German Literature</td>
<td>4</td>
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<tr>
<td>41334</td>
<td>The German Novella</td>
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</tr>
<tr>
<td>GRE 34550</td>
<td>Adv. Prose Authors (Greek)</td>
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<tr>
<td>34370</td>
<td>Plato, Apology and Phaedo</td>
<td>3</td>
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<td>43371</td>
<td>Homer</td>
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<tr>
<td>44352</td>
<td>Greek Drama</td>
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<td>ITAL 35331</td>
<td>Early Italian Literature</td>
<td>3</td>
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<tr>
<td>35332</td>
<td>Recent Italian Literature</td>
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<tr>
<td>35421</td>
<td>Italian Civilization</td>
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<tr>
<td>35597</td>
<td>Colloquium in Italian Literature</td>
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<tr>
<td>LAT 36170</td>
<td>Cicero</td>
<td>3</td>
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<tr>
<td>36171</td>
<td>Vergil</td>
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<tr>
<td>36351</td>
<td>Latin Comedy</td>
<td>3</td>
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<td>36373</td>
<td>Advanced Prose Authors</td>
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<tr>
<td>46095</td>
<td>Selected Topics in Latin</td>
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<tr>
<td>46352</td>
<td>Elegiac Poets</td>
<td>3</td>
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<tr>
<td>46374</td>
<td>Juvenal, Satires; Martial, Epigrams</td>
<td>3</td>
</tr>
<tr>
<td>46375</td>
<td>Lucretius</td>
<td>3</td>
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<tr>
<td>PORT 37330</td>
<td>Early Brazilian Literature</td>
<td>3</td>
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<tr>
<td>37331</td>
<td>Recent Brazilian Literature</td>
<td>3</td>
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<tr>
<td>37421</td>
<td>Luso-Brazilian Civilization</td>
<td>3</td>
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<tr>
<td>47095</td>
<td>Selected Topics</td>
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<td>RUSS 32303</td>
<td>Modern Writers</td>
<td>3</td>
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<td>plus any one of the following:</td>
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<tr>
<td>32325</td>
<td>Russian Poetry and Folklore</td>
<td>3</td>
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<tr>
<td>32350</td>
<td>Russian Prose</td>
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<tr>
<td>32354</td>
<td>Russian Drama</td>
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<td>42351</td>
<td>Survey of Russian Soviet Lit</td>
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<td>SPAN 38330</td>
<td>Early Spanish Literature</td>
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<td>38331</td>
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<td>48350</td>
<td>Don Quixote</td>
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<td>48354</td>
<td>Neoclassicism and Romanticism</td>
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<tr>
<td>48356</td>
<td>Golden Age Prose</td>
<td>3</td>
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<tr>
<td>48358</td>
<td>19th-Century Novel</td>
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<tr>
<td>48366</td>
<td>Novel of the Mexican Revolution</td>
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<tr>
<td>48370</td>
<td>Modernismo in Spanish-America</td>
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<tr>
<td>48372</td>
<td>Spanish-American Novel I</td>
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<tr>
<td>48373</td>
<td>Spanish-American Novel II</td>
<td>3</td>
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<td>48374</td>
<td>Modern Spanish-American Drama</td>
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<tr>
<td>48376</td>
<td>Contemporary Spanish-American Short Story</td>
<td>3</td>
</tr>
</tbody>
</table>

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

TOTAL 26

Minimum cumulative 2.00 GPA required.

Computer Science

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>10051</td>
<td>Introduction to Computer Science</td>
<td>4</td>
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<tr>
<td>MATH**12001</td>
<td>Algebra and Trigonometry</td>
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</table>

Core Requirements:

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<td>CS 23021</td>
<td>Introduction to Object-Oriented Programming</td>
<td>3</td>
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<tr>
<td>23022</td>
<td>Discrete Structures for Computer Science</td>
<td>3</td>
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<tr>
<td>33001</td>
<td>Data Structures</td>
<td>3</td>
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</table>

Elective Courses: ..................................................... 9
In consultation with the student’s minor advisor, 9 hours must be chosen from upper-division CS courses. Six of these hours must be in courses numbered 40000 or above. In choosing these courses, students are warned, however, that the prerequisites for a course may cause the total number of hours to increase above 9.

TOTAL 18

*MATH 12002 is a prerequisite for some electives.

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

Minimum cumulative 2.00 GPA required.
Economics

ECON 22060, Principles of Microeconomics .......... 3
22061, Principles of Macroeconomics .......... 3
plus 9 additional upper-division credits in economics .......... 9
(which may include 32040 or 32041 if not selected below) elected with the approval of the student’s advisor.

Choose one from:

ECON 32040, Intermediate Microeconomic Theory and Applications (3)
32041, Intermediate Macroeconomic Theory and Policy (3)

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.

English

Core Requirement
ENG 25001, Literature in English I ....... 3
25002, Literature in English II ....... 3
30001, Introduction to English Studies ....... 3
Electives ..

Distribution requirements .......... 9
One course listed in the major from each of the following three areas:
Historical courses
Genre Studies, Cultural Studies, Literary Theory
Writing and Language Studies

TOTAL *21

*At least 12 hours must be upper-division.

Minimum cumulative 2.00 GPA required.

French

Prerequisites:
FR 13201, Elementary French I (4)
13202, Elementary French II (4)
23201, Intermediate French I (3)
23202, Intermediate French II (3)

Note: Prerequisites may be waived by demonstrated proficiency.

Geography

GEOG 10160, Intro. to Geography .......... 3
29160, Intro. to Maps and Map Analysis .......... 3
plus 15 hours in geography .......... 15
at least 9 of which must be upper-division

Choose one from:

GEOG D17063, World Geography (3)
D 17064, Geography of the U.S. and Canada ....... 3

TOTAL 24

Minimum cumulative 2.00 GPA required.

Geology

Prerequisites:
CHEM 10060 (for which high school algebra or its equivalent is a prerequisite) is a prerequisite or corequisite for GEOL 23063;
BSCI 10110 or 20560 is recommended as a prerequisite or corequisite for GEOL 34061.

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

TOTAL 24

Minimum cumulative 2.00 GPA required.
### German

**Prerequisites:**
- GER 11201, 11202, Elem. German I, II (8)
- 21201, 21202, Intermed. German I, II (6)

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

**Courses:**
- GER 31201, Intensive German Grammar ........................................ 3
- 31211, Composition and Conversation ........................................ 3
- 31303, Introduction to German Literature .................................... 3
- 31421, German Civilization ......................................................... 3
- plus 6 upper-division hours in culture and literature courses ........ 6

**TOTAL** 18

**Minimum cumulative 2.00 GPA required.**

### German Studies

(Harold Fry, Coordinator, 109 Satterfield Hall)

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

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

**German Language**
- GER 31211, German Composition and Conversation ........................ 3

**German Literature and Culture**
- GER 31303, Introduction to German Literature .............................. 3
- 31421, German Civilization ......................................................... 3
- Plus one upper-division elective in German literature or culture .......... 3

**German History and Thought**
- Select two from:
  - HIST 41040, History of Germany, 1648-1871 (3)
  - 41041, History of Germany, 1871-Present (3)
  - PHIL 31005, German Critical Philosophy (3)

**TOTAL** 18

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

**Minimum cumulative 2.00 GPA required.**

### Greek

**Prerequisites:**
- GRE 14201, Elem. Classical Greek I (4)
- 14202, Elem. Classical Greek II (4)

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

**Greek Language and Literature Courses:** ........................................ 12
- GRE 24201, Inter. Class. Greek I (3)
- 24202, Inter. Class. Greek II (3)
- 34370, Plato Apology and Phaedo (3)
- 34371, Homer (3)

**Greek Culture Courses:** ............................................................... 6
- CLAS 21404, The Greek Achievement (3)
- 41097, Colloquium in Classics (3)
- 41301, Classical Mythology (3)
- 41401, Greek Archaeology and Art (3)
- 41503, Greek Literature in Translation (3)
- HIST 41003, History of Ancient Greece (3)
- Any Greek course at the 30000-40000 level (3)

**TOTAL** 18

**Minimum cumulative 2.00 GPA required.**

### Health-Care Ethics

(Deborah Barnbaum, Coordinator, 320 Bowman)

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

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

**Required courses:** ................................................................. 15
- BSCI 30050, Human Genetics ..................................................... 3
- HED 21050, Health Behavior ..................................................... 3
- SOC 42563, Sociology of Health and Health Care ............................ 3
- PHIL 40005, Health Care Ethics .................................................. 3
21001, Intro to Ethics .............................. 3
plus 9 additional hours from lists below .... 9
of which no more than 6 hours may be taken in any one cluster

Cluster I:
BSCI  20021, Basic Microbiology (3)
      40020, Biology of Aging (3)

Cluster II:
SOC   42010, Death and Dying (3)

Cluster III:
HED   14020, Intro. to Med. Terminology (3)
      42041, Health Counseling (3)

Cluster IV:
PHIL * 21003, Ethics in Contemporary Contexts (3)

Cluster V:
HONR** 30297, Junior Colloquium (3)
ILS*** 49993, Human Values in Medicine (1-5)

TOTAL 24

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

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

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

Minimum cumulative 2.00 GPA required.

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

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

History of Greece
HIST   31009, Hist. of Byzantine Civilization ......... 3
      31050, Hist. and Society of Modern Greece .... 3
      41003, Hist. of Ancient Greece ............. 3

Classical Hellenism
6-9 hours from: .................................... 6-9
CLAS  41503, Greek Literature in Translation (3)
      41301, Classical Mythology (3)
      41401, Greek Archaeology and Art (3)
or
ARTH  42031, Greek Art and Archaeology (3)

PHIL  31000, Hellenic Contributions to Western Civilization (3)
      31001, Ancient Greek Philosophy (3)

Modern Hellenism

3-6 hours from: .................................... 3-6
A&S   30095, Studies in the Eastern Christian World (3)
HIST  41049, History of the Balkans:
      18th Century to 1914 (3)
      41050, History of the Balkans: 1914 to Present (3)
      41079, History of the Immigrant in America (3)
      48997, Colloq. on the Immigrant in American History (3)

Individual investigation on one of the following: .... 3
      Byzantine Empire (3)
      Modern Greece (3)
      Greek Immigrants in America (3)

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

Language Cognate: Ancient or Modern Greek ......... 14
(or equivalent in proficiency) May be taken through either, or a combination of, GRE 14201, 14202, 24201, 24370, or GRE 14205, 14206, 24208, 24209. (These courses also fulfill core II of the ethnic heritage major.)

TOTAL 38

Minimum cumulative 2.00 GPA required.

Jewish Studies
(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.

I. Core Course: .................................... 3
A&S   22001, Introduction to Jewish Studies ........ 3

II. Jewish Literature, Art or Thought .............. 3

TOTAL 24
Choose 3 hours from the following list:

ENG 35201, The Bible as Literature (3)
GER 23531, Yiddish Short Stories in Translation (3)
23532, Yiddish Drama in Translation (3)
HIST 31125, Zionism and Israel (3)
31126, History of the Middle East (3)
PHIL 21020, Comparative Religious Thought I (3)
21021, Comparative Religious Thought II (3)
31065, Philosophies of Religious Experience (3)
31068, Religious Thought in Contemporary Contexts (3)

III. Jewish History ........................................... 9

Choose 9 hours from the following list:

HIST 31127, Ancient and Early Medieval Jewish History (3)
31128, Late Medieval and Modern Jewish History (3)
41041, History of Germany, 1871—Present (3)
41129, The Holocaust: The Destruction of European Jewry, 1938-1945 (3)

IV. Electives ................................................. 6

Choose 6 additional hours from any of the above or from the following courses:

ANTH 38250, Religion: A Search for Meaning (3)
GEOG 32061, Cultural Geography (3)
32080, Politics and Place (3)
GER 41216, Contemporary German Culture (3)
HIST 31024, World War II (3)
41024, Modern European History, 1914-1945 (3)
41079, History of the Immigrant in America (3)
JMC 40010, Ethics and Issues in Mass Communication (3)
PHIL 41010, Problems in the Philosophy of Religion (3)
41015, Philosophical Study of Religion (3)
POL 30501, Comparative Theory and Concepts (3)
40530, Politics of War (3)
PSYC 41532, Social Psychology (3)
SOC 42561, Sociology of Religion (3)
42568, Race and Ethnic Studies (3)

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

Minimum cumulative 2.00 GPA required.

Latin

Prerequisites:
LAT 16201, 16202, Elem. Latin I, II (8)

Note: Prerequisites may be waived by demonstrated proficiency.

Latin Language and Literature Courses: .......................... 12
LAT 26201, Inter. Latin I: Readings (3)
26202, Inter. Latin II: Readings (3)
36170, Cicero (3)
36171, Vergil (3)

Roman Culture Courses: ......................................... 6
CLAS 21405, The Roman Achievement (3)
41097, Colloquium in Classics (3)
41301, Classical Mythology (3)
41402, Roman Archaeology and Art (3)
CLAS/HIST 41006, Roman History (3)

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

TOTAL 18

Minimum cumulative 2.00 GPA required.

Latin American Studies

(Luis Hermosilla, Coordinator, 109 Satterfield Hall)

Choose six courses from at least three different subject areas from the following: ............................. 18
ANTH 48425, Prehistory: 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)

Total 21

Minimum cumulative 2.00 GPA required.

Justice Studies

JUS 12000, Intro. to Justice Studies ......................... 3
22300, Police Role ......................................... 3
26701, Corrections .......................................... 3
26702, Criminology ........................................ 3

12 upper-division JUS hours with the exception of: ........ 12
JUS 45093, Variable Title Workshop

45096, Individual Investigation
46792, Internship

Total 24

Minimum cumulative 2.00 GPA required.
37143, African-Brazilian Experience in Culture and Literature (3)
PAS 24407, Caribbean Studies (3)
35058, Caribbean Social and Political Directions (3)
37143, African-Brazilian Experience in Culture and Literature (3)

Note: 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)

Note: 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.

Lesbian, Gay, Bisexual and Transgendered Studies

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

No more than 6 hours counted toward the major may also be counted toward the LGBT minor. Selected or special topics or variable content courses with LGBT content may be counted toward the minor if approved by the coordinator.

Requirements:

A&S 22069, Introduction to LGBT Studies ...............3
30196, Individual Investigation ......................3

Block A - Select 3 courses* ..........................9
A&S** 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)

SOC 42315, Sociology of Changing Gender Roles (3)

or

PSYC 40625, Development of Gender Role and Identity (3)

THEA 41114, Gay and Lesbian Theatre (3)

Block B - Select 2 courses* ............................6

AMST 10001, Intro. 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, Victimization (3)
PAS 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

Minimum cumulative 2.00 GPA required.

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

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

Lithuanian Studies

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

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

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

Lithuanian History

Choose one of: ........................................3
HIST 41044, Russia from Its Origins to 1801 (3)
41045, Russia, 1801 to Present (3)

Choose one of: ........................................3
A&S 40197, Russian Area Studies Colloq. (3)
GEOG 40195, Special Topics: Minorities in Soviet Union (3)
HIST 45597, Colloq. in Russian History (3)
48997, Colloq. on the Immigrant in American History (3)

Lithuanian Culture

Choose two of: .......................................6

A&S 30095, Special Topics: Lithuanian Culture and Civilization (3)
College of Arts and Sciences

30095, Special Topics: Lithuanian Literature (3)
MUS 42141, Folk and Traditional Music of Western Continents (3)

or
Appropriate Lithuanian folk dance offering (3)

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

Lithuanian Civilization ...........................................6
HRTG 30095, Special Topics (3)
HRTG 30096, Special Topics (3)

Language Cognate: Lithuanian-HRTG
HRTG 10101, 10102, 20201, 20202 .........................14
or equivalent in proficiency. These courses also fulfill core II of the ethnic heritage major.

TOTAL 32

Minimum cumulative 2.00 GPA required.

Mathematics

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

12002, Analytic Geometry and Calculus I (5)
12003, Analytic Geometry and Calculus II (5)

Core Courses:
MATH 21001, Linear Algebra with Applications ...... 3
22005, Analytic Geometry and Calculus III ........... 3

Choose one from: ................................................. 3
32044, Introduction to Ordinary Differential Equations (3)
41001, Introduction to Modern Algebra I (3)
42001, Introduction to Analysis I (3)

Elective Courses: .................................................. 9
Nine hours selected from the following (in any combination) in consultation with the student’s minor advisor.
MATH 32044, Introduction to Ordinary

Differential Equations (3)
40011, Introduction to Probability
Theory and Application (3)
40012, Introduction to Statistical Concepts (3)
40051, Topics in Probability Theory and
Stochastic Processes (3)
41001, Introduction to Modern Algebra I (3)
41002, Introduction to Modern Algebra II (3)
41021, Theory of Matrices (3)
42001, Introduction to Analysis I (3)
42002, Introduction to Analysis II (3)
42011, Mathematical Optimization (3)
42021, Graph Theory and Combinatorics (3)

42031, Mathematical Models and Dynamical Systems (3)
42045, Introduction to Partial Differential Equations (3)
42048, Introduction to Complex Variables (3)
42201, Introduction to Numerical Computing I (3)
42202, Introduction to Numerical Computing II (3)
45011, Differential Geometry (3)
45021, Euclidean Geometry (3)
45022, Linear Geometry (3)
46001, Elementary Topology (3)
47001, Mathematical Logic and Set Theory (3)
47011, Theory of Numbers (3)

TOTALS 18

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

Minimum cumulative 2.00 GPA required.

North Atlantic Security Studies

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

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

Core Courses (required) ............................................. 3
HIST 47597, Colloquium on NATO ......................... 3

Electives: .......................................................... 18
18 hours chosen from at least two of the following areas:
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 to Present (3)
41045, Russia, 1801 to Present (3)
41050, History of the Balkans: 1914 to Present (3)
46597, Colloquium in 20th-Century
European Diplomacy (3)
POL 30520, European Politics (3)
30820, International Organization and Law (3)
40830, U.S. Foreign Policy (3)

TOTAL 21
Note: No more than 9 hours counted for the minor may be in the major field.

Minimum cumulative 2.00 GPA required.

**Pan-African Studies**

**Core Courses:**
- PAS 37000, Oral & Written Discourse in PAS . . . . . . . . . . . . .3
- 37010, Research Methods in Pan-African Studies . . . . . 3

**Two courses from:** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .6
- 13001 and 13002, Foundations in Pan-African Studies I & II (6)
- or
- 23001 and 23002, Black Experience I, II (6)

**Choose one from:** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .3
- 22200, Introduction to African Arts (3)
- 34000, Introduction to African World View (3)

**Choose one from:** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .3

**Elective Courses: (upper-division hours) . . . . . . . . . . . . . . . . . 6**

**TOTAL 24**

Minimum cumulative 2.00 GPA required.

**Paralegal Studies**

(Hedi Nasheri, Coordinator, 113 Bowman Hall)

The paralegal studies minor at Kent State University’s Kent Campus has been approved by the American Bar Association. Students may minor in paralegal studies in conjunction with a four-year baccalaureate degree.

**Category I**

Must complete the following sequence of specialty courses:
- JUS *18000, Intro. to Paralegal Studies . . . . . . . . . . . . . . . . . . . .3
  - * 28001, Legal Research and Writing . . . . . . . . . . . . . . . . . . . .3
  - * 28004, Prin. and Practice of Litigation . . . . . . . . . . . . . . . . . . .3

**Choose three 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**

Must complete:
- JUS 36792, Internship in Paralegal . . . . . . . . . . . . . . . . . . . . . . . .3

**Category III**

Must complete 9 hours from the following law-related courses:
- ACCT 33000, Fund. Tax Procedures (3)
- FIN 26070, Introduction to Law (3)
  - 26074, Legal Environment of Business (3)
  - 36071, Critical Issues in Law Management (3)
- JUS 22100, Basic Interviewing (3)
  - 26704, Law and Society (3)
  - 32200, 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, Intro. to Public Admin. (3)
  - 30130, Courts (3)
  - 40182, Constitutional Law: Gov. Struc. and Func. (3)
  - 40183, Constitutional Law: Civ. Rights and Liberties (3)
  - or
  - Any specific course listed above not used to complete the specialty minor

**TOTAL 30**

*Justice studies courses with the asterisk are to be cross-listed as LEGT (Legal Assisting Technology).

Note: A maximum of 9 credit hours from the major may be used to complete the requirements of the minor in paralegal studies.

Minimum cumulative 2.00 GPA required.

**Philosophy**

**Core Courses:**

**three courses from:** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .9
- PHIL 11001, Intro. to Philosophy (3)
  - 11009, Principles of Thinking (3)
  - 21001, Intro. to Ethics (3)
  - 21002, Intro. to Formal Logic (3)

**Elective Courses:**

four additional philosophy courses . . . . . . . . . . . . . . . . . . . . . . . .12

At least three of these courses must be upper division. The fourth core course may be elected. At least one course in the history of philosophy must be included:

- PHIL 31001, Ancient Greek Philosophy (3)
  - 31002, Medieval Philosophy (3)
  - 31003, Continental Rationalism (3)

*Justice studies courses with the asterisk are to be cross-listed as LEGT (Legal Assisting Technology).*
31004, British Empiricism (3)
31005, German Critical Philosophy (3)
31006, 19th-Century Philosophy (3)
31010, 20th-Century Philosophy (3)
31020, American Philosophy (3)

At least one course must be at the 40000-level.

PHIL 40093, 49996 and 49999 may not be counted toward the minor.

TOTAL 21

Minimum cumulative 2.00 GPA required.

### Physics

**Prerequisites:**
- MATH 12001, Algebra and Trigonometry (4)
- 12002, 12003, Analytic Geometry and Calculus I, II (10)

**Courses:**
- PHY 23101, 23102, General University Physics I & II . . . . . . 10
- 30020, Intermediate Physics Lab . . . . . . . . . . . . . . . . . . 2
- 35101, Mechanics I . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
- 36001, Introductory Modern Physics . . . . . . . . . . . . . . . 3
- plus 5 hours in physics . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .5
- at least 2 of which must be upper division

TOTAL 23

Minimum cumulative 2.00 GPA required.

### Political Science

**Core Courses:**
- POL 10100, American Politics . . . . . . . . . . . . . . . . . . . . . . . . 3
- 10300, Public Policy . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
- plus 12 upper-division hours in Political Science* . . . . . . . . 12

**Choose one from:** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 3
- 10004, Comparative Politics (3)
- 10500, World Politics (3)

TOTAL 21

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

Minimum cumulative 2.00 GPA required.

### Pre-Law

(Thomas Hensley, Coordinator, 302 Bowman Hall)

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

Law schools emphasize the value of reading comprehension, analytical skills, and a good command of written English. While these skills can be obtained in various ways, a general liberal arts background is recommended; other fields such as business are also useful. Courses in literature, American history and government are considered essential. Many 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 LERs, that provides advanced analytical and writing skills, and that introduces the student to the social and governmental structures that underlie the law. This minor may be combined with any major or field of concentration.

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

Students considering law as a career should seek individual advising from the 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.

II. Required courses: ........................................... 12
ENG 30064, Argumentative Prose ..................... 3
PHIL 11009, Principles of Thinking ................. 3
21001, Introduction to Ethics ......................... 3
21002, Introduction to Formal Logic ............... 3

II. Elective Courses: ........................................... 12
Students must take at least 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)

History and Philosophy: .................................... 3
HIST 41057, Eighteenth-Century America: 1714-1789 (3)
41058, Jefferson-Jackson Era, 1789-1848 (3)
41069, Recent America: U.S. 1929 to Present (3)
41082, Constitutional History of the United States (3)

PHIL 31035, Philosophy and Justice (3)
41025, Philosophy of Law (3)

English: .......................................................... 3
ENG 30001, English Studies (3)
33001, U.S. Literature to 1865 (3)
33002, U.S. Literature from 1865 to 1945 (3)
33003, U.S. Literature from 1945 to Present (3)
33011, African-American Literature (3)

Social Science: .................................................... 3
CACM 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

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

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

Minimum cumulative 2.00 GPA required.

Psychology

PSYC 11762, General Psychology ................. 3
21621, Quantitative Methods in Psychology .... 3
31574, Research Methods in Psychology ........ 3
plus any 9 upper-division hours ....................... 9

TOTAL 18

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

Minimum cumulative 2.00 GPA required.

Religion Studies

(David Odell-Scott, Coordinator, 320 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.

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

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

Judaeo-Christian Tradition:
ENG 35201, The Bible as Literature (3)

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

Social Patterns of Religion:
ANTH 38250, Religion: A Search for Meaning (3)
SOC 42561, Sociology of Religion (3)
## College of Arts and Sciences

**Philosophy of Religion:**
- PHIL 31065, Phil. of Religious Exper. (3)
- 41010, Problems in the Philosophy of Religion (3)

### II. COGNATE STUDIES .................................................. 9-12

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

#### A. GENERAL

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

**Religion and The Arts:**
- ARTH 22006, 22007, Art History I, II (6)
- 42036, Medieval Art (3)
- MUS 4111, African Music and Cultures (3)
- 42151, Asian Musics (3)
- 42271, Choral Literature: The Anthem (3)
- 42331, Music in Worship (3)

**Religion and The Sciences:**
- GEOG 32061, Cultural Geography (3)
- GEOL 11040, Earth Dynamics (3)
- PHY 11030, Seven ideas that Shook the Universe (3)

**Religion and History:**
- HIST 31009, History of Byzantine Civilization (3)
- 31127, Ancient and Early Medieval Jewish History (3)
- 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 Civ. (3)
- PHIL 31001, Ancient Greek Philosophy (3)

#### B. CATHOLIC THOUGHT

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

**English:**
- A&S 340095, Special Topics: Classics of Christian Lit. (3)
- 340095, Special Topics: Myth and Religion in Literature (3)

**History/Arts and Sciences:**
- A&S 340095, Special Topics: Modern Catholic Thought (3)
- HIST 41016, Protestant and Catholic Reform. (3)

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

**Romanian Studies**

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

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

**Romanian Civilization**
- GEOG 37050, Geography of Russia and the
  Commonwealth States ................................. 3
- HIST 31051, Romanian Civilization .................. 3
- Appropriate political science offering ............... 3

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

**Language Cognate**
- HRTG 10101, 10102, 20201, 20202 .................... 14
- An equivalent or proficiency. These courses also fulfill core II of the ethnic heritage major.

**Studies in Romanian Civilization**
- 38095, Selected Topics in History: Romania (3)
- 38997, Colloquium in History: Romania (3)
- 41079, History of the Immigrant in America (3)
- 48997, Colloq. on the Immigrant in American History (3)
- 49196, Individual Investigation-Romanian History (3-5)

**Cognate Area**
- At least one of two (if only 6 hours above): ........ 3-6

**TOTAL 35**

*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.

Minimum cumulative 2.00 GPA required.
Russian

Prerequisites:
RUSS 12201, 12202, Elem. Russian I, II (8)
22201, 22202, Intermed. Russian I, II (6)
Note: Prerequisites may be waived by demonstrated proficiency.

Courses:
RUSS 32207, Russian Conversation ............... 2
32211, Composition and Conversation .......... 3
32303, Modern Writers ......................... 3
32421, Russian Civilization ...................... 4
plus 6 upper-division hours in literature courses ....... 6

Total 18

Minimum cumulative 2.00 GPA required.

Russian Studies

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

This program may be used as the studies emphasis area (core IV) in the ethnic heritage major.

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

Russian Literature and Culture
RUSS 32303, Modern Writers ..................... 3
32421, Russian Civilization ...................... 4
One upper-division Russian literature elective ........... 3
RUSS 32325, Russian Poetry and Folklore, recommended

Russian Language
RUSS 32211, Composition and Conversation .......... 3

Russian History
HIST 41044, Russia from its Origins to 1801 .......... 3
41045, Russia: 1801 to Present .................... 3

Soviet Period: One of the following: ................. 3
A&S 40197, Russian Area Studies Colloquium (3)
GEOG 32061, Cultural Geography (3)
Appropriate specialized offerings such as GEOG 40195, Special Topics: The Peoples of the U.S.S.R. and East Europe (3), or PHIL 49995, Special Topics: Marxism (3), may be substituted above as available with approval of the Russian Studies program coordinator.

Total 22

Minimum cumulative 2.00 GPA required.

Sociology

SOC 12050, Intro. to Sociology ................... 3
22100, Sociological Analysis ..................... 3
plus 15 hours in sociology ........................... 15
at least 9 of which must be upper division

Total 21

Minimum cumulative 2.00 GPA required.

Spanish

Prerequisites:
SPAN 18201, Elementary Spanish I (4)
18202, Elementary Spanish II (4)
28201, Intermediate Spanish I (3)
28202, Intermediate Spanish II (3)
Note: Prerequisites may be waived by demonstrated proficiency.

Courses:
SPAN 38211, Spanish Grammar and Composition ....... 3
38213, Spanish Reading and Conversation ........... 3
38215, Spanish Phonetics and Diction ............... 3
plus 3 hours at the 40000 level ..................... 3
Choose one from: .................................. 3
SPAN 38330, Early Spanish Literature (3)
38331, Recent Spanish Literature (3)
Choose one from: .................................. 3
SPAN 38334, Early Spanish-American Literature (3)
38335, Recent Spanish-American Literature (3)
Choose one from: .................................. 3
SPAN 38421, Civilization of Spain (3)
38424, Culture and Civilization of Latin America (3)

Total 21

Minimum cumulative 2.00 GPA required.

Urban Studies and Planning

(David Kaplan, Coordinator, 440 McGilvrey Hall)

In addition to the required core courses, students must complete a minimum of 6 hours in departments other than the major department from among the elective courses listed below. The electives chosen must be approved by the urban studies and planning advisor and all appropriate prerequisites must be met.
Core Courses:

- ECON 42081, Urban Economics .............................................. 3
- GEOG 36065, Cities and Urbanization ......................................... 3
- POL 30450, Metropolitan Governance .......................................... 3
- SOC 32673, Urban Processes and Life Styles .................................... 3

Elective Courses: Choose two from: .............................................. 6

- ECON 32084, Economics of the Environment (3)
- GEOG 45085, Urban Transportation (3)
- 46035, Marketing Geography (3)
- 46065, Advanced Urban Geography (3)
- 46070, Urban and Regional Planning (3)
- 46092, Internship in Geography and Planning (6)
- 49480, Field Studies in Geography (3)

One appropriate statistics course (3)

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

TOTAL 18

Minimum cumulative 2.00 GPA required.

Web Design and Programming

This minor is offered jointly between computer science and visual communication design and is available to majors in these programs only.

- CS 10051, Introduction to Computer Science ......................4
- 23021, Introduction to Object Oriented Programming ........3
- 33001, Data Structures ................................................3

Choose 3 hours from ..................................................3

- VCD 13001, Introduction to Graphic Design (3)
- 27001, Visual Design for Media: Basic (1)
- 37000, Visual Design for Media/Advanced (3)

Choose 3 hours from ..................................................3

- VCD 46003, Digital Typography (3)
- 40003, Intermediate Computer (3)

Choose 3 hours from ..................................................3

- VCD 46005, Visual Form and Kinetic Graphics (3)
- 43001, Kinetic and Sequential GD (3)

Choose 3 hours from ..................................................3

- VCD 46000, Web Design and Programming I (3)
- CS 47105, Web Design and Programming I (3)

Choose 3 hours from ..................................................3

- VCD 46001, Web Design and Programming II (3)
- CS 47106, Web Design and Programming II (3)

Choose 3 hours from ..................................................3

- VCD 46053, Web Design and Programming Studio (3)
- CS 47107, Web Design and Programming Studio (3)

TOTAL 28

Minimum of 2.25 GPA in the minor required for graduation.

Women’s Studies

(Nawal Ammar, Director, Women’s Studies Program, Women’s Resource Center)

Students earning a minor in women’s studies select courses (totaling 21 hours) from the following list. No more than 6 hours counted toward the major may also be counted toward the women’s studies minor. Courses with women’s studies topics offered by the experimental program with the course number 30295 may be counted toward the minor, if approved by the 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.

I. One of the following: ..................................................3

- WMST 30000, Colloquium in Women’s Studies (3)
- 30001, Feminist Theory (3)

Remaining course WMST 30000 or WMST 30001 may be applied to section II.

II. At least 15 hours 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)
- LEST 36085, Leisure and Culture (3)
- PAS 33110, The Black Woman: Historical Perspectives (3)
- PEP 25059, Sport in Society (3)
- PHIL 31040, Women and Philosophy (3)
- 32091, Seminar: Women’s Ways (3)
- 32091, Seminar: Ethics of Sex and Gender (3)
- POL 40470, Women and Politics (3)
- PSYC 40625, Development of Gender Role and Identity (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)
- 40992, Practicum in Women’s Studies (3)

III. 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.

The Writing Minor

(Department of English, 113 Satterfield Hall)

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

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

Writing Courses:
ENG * 40010, Writing Portfolio  
Choose four from:  
ENG * 20002, Introduction to Technical Writing (3)  
* 20021, Intro. to Creative Writing (3)  
* 30063, Business and Professional Writing (3)  
* 30064, Argumentative Prose Writing (3)  
* 30065, Expository Prose Writing (3)  
* 30067, *30068, Fiction Writing I, II (3 each)  
* 30069, *30070, Poetry Writing I, II (3 each)  
JMC * 40037, Scriptwriting for Video and Film (3)  
THEA 41026, Playwriting (3)  
* 41027, Advanced Playwriting (3)

Cognate Courses: Choose three from:  
ENG * 31001, Fundamental English Grammar (3)  
* 31002, History of the English Language (3)  
* 31003, Linguistics (3)  
* 31095, ST: Linguistics (3)  
* 39995, ST: Literary Criticism (3)  
* 36001, Literary Criticism (3)  
MCLS*30230, Approaches to Translation (3)  
PSYC* 40461, Psychology of Language (3)

Group A: Language and Literary Criticism
ENG * 31001, Fundamental English Grammar (3)  
* 31002, History of the English Language (3)  
* 31003, Linguistics (3)  
* 31095, ST: Linguistics (3)  
* 39995, ST: Literary Criticism (3)  
* 36001, Literary Criticism (3)  
MCLS*30230, Approaches to Translation (3)  
PSYC* 40461, Psychology of Language (3)

Group B: Theory and Practice of Communication
COMM*25464, Argumentation (3)

TOTAL 23-25

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

Note: Students may apply to the program coordinator for permission to use special topic courses and other appropriate courses not listed in the curriculum to satisfy the cognate requirement. Students in the College of Fine and Professional Arts may request that specific courses in art, music, journalism and mass communication, or communication studies be accepted as meeting the two cognate area requirements.

Minimum cumulative 2.00 GPA required.

MINORS IN OTHER COLLEGES/SCHOOLS

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

Education Minor

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

Eligibility and Admission
The education minor is open to students pursuing a B.A./B.S. degree who are majoring in a teaching field such as 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 education.
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, 306 White Hall, by appointment. Students are not enrolled in this minor until they have met all admission requirements and followed all admission procedures.

Satisfactory completion of the education minor requirements including qualifying scores on the Praxis II, as stipulated by the College of Education, 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, 306 White Hall.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADED **42357</td>
<td>Secondary Student Teaching</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>**42358, Student Teaching</td>
<td>4</td>
</tr>
<tr>
<td>EDPF 29525</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>29535, 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>***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>
<tr>
<td>TOTAL 39</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Students in foreign languages take MCLS 40525, Inquiry into Professional Practice. Students in TESL take ENG 41525, Inquiry into Professional Practice (3).

**Students in foreign languages take MCLS 40657, Student Teaching. Students in TESL take ENG 41009, Student Teaching (9).

***Students in TESL take the following courses:
ENG 31007, TESL Pedagogy I (3)
ENG 41008, TESL Pedagogy II (3)

****Students in foreign languages take the following courses:
MCLS 40420, Foreign Languages and Culture Studies (3)
MCLS 40654, Computers in Second Language Teaching (3)
PSYC 40461, Psychology of Language (3)

Students in TESL take the following courses:
ENG 41192, ESL/EFL Practicum (3) and a choice of two additional designated education elective courses (6).

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

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

Program Requirements
A. The professional hours in the minor include student teaching (not available during summer session).
B. When a difference exists between the two colleges’ major requirements in teaching fields, students must also complete the specific major sequences required by the College of Education, Health and Human Services. This ensures that the students will meet licensure requirements.
C. In order to be admitted to student teaching, students must attain a 2.75 cumulative GPA, a 2.60 GPA in the adolescence to young adult education content area with no grade lower than C (2.0), and must have grades of C (2.0) or better in all professional coursework.
D. In order to qualify for Ohio licensure, students must maintain a 2.75 cumulative GPA, a 2.60 GPA in the adolescence to young adult education content area with no grade lower than C (2.0), and pass the appropriate parts of the Praxis II exam.

Business Administration
The following minors within the College of Business Administration are available to all undergraduate students at Kent State University. Please see Pages 206-211 for program requirements.

Accounting
Business
Computer Information Systems  
Economics  
Finance  
Human Resource Management  
Management  
Marketing  
Military Studies

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

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 220-221 for program requirements.

Advertising  
Communication Studies  
Design  
Electronic Media  
Media Literacy  
Photo Illustration  
Public Relations  
Visual Journalism  
Web Design and Programming

School of Exercise, Leisure and Sport  
The following minors within the School of Exercise, Leisure and Sport are available to all undergraduate students at Kent State University. Please see Pages 308-309 for program requirements.

Athletic Coaching—Non-PE Majors  
Leisure Studies  
Sport Management for Non-Majors  
Sports Medicine

Technology  
The following minors within the School of Technology are available to all undergraduate students at Kent State University. Please see Pages 355-356 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.

Education  
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 279-280 for program requirements.

Community Health Education  
Human Sexuality

*Fine and Professional Arts  
The following minors within the College of Fine and Professional Arts are available to all undergraduate students at Kent State University. Please see Pages 290-292 for program requirements.

Art History  
Crafts  
Dance  
Family, Food and Nutritional Studies  
Gerontology  
Hospitality Food Service Management  
Music  
Studio Art  
Theatre

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

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

Also in the College of Arts and Sciences, students pursuing the B.S. degree in physics may elect the computer hardware systems option in that program. This option introduces students to the basic concepts and techniques used in designing and implementing computer systems for measurement and control processes. This option also introduces the students to the use of computer systems in a real-time environment. This option is described in the section on B.S. programs.
In the College of Business Administration, students may pursue a degree in information systems. This program is offered through the Department of Management and Information Systems; it is described in the Business Administration section of this Catalog.

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

**Health-Related Programs**

Kent State University has particularly strong programs in areas related to health. In the College of Arts and Sciences, programs in premedicine, preosteopathy, preveterinary medicine and predentistry are offered. These programs must be taken in conjunction with a second major or field of concentration. They are described in this section of the Catalog under Premedical Programs. These programs are intended to provide specific preparation for advanced professional training in medicine. They 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. Superior students with the B.A. degree may also, however, be admitted to such science and math programs. In other areas, the B.A. is the usual degree required for admission to a Ph.D. program. A 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.

**Nonmajor Preprofessional Advising Programs**

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

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

Students preparing for graduate professional study in law or library science also are advised through nonmajor advising programs. These advising programs will help students make the appropriate choice of courses and prepare for professional study.
Pre-engineering
(Samuel N. Sprunt Jr., 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.

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

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

BSCI 10120, 20140, 30171 and 30518
CHEM 10060, 10061, 10062 and 10063; or 10960 and 10961
CHEM 30475, 30476, 30481 and 30482
ENG 10001, 10002
MATH 12001, 12002, 12003
PHY 13001, 13002, 13021 and 13022;
or 23101 and 23102.

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

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

Prelibrary 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.