

# College of Arts and Sciences

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The College of Arts and Sciences embodies the tradition of the liberal arts; knowledge is sought, developed, shared, and cherished with concern for its ultimate value as well as for its immediate use.

The liberal arts are the core disciplines of higher learning, including the natural sciences and mathematics, the social sciences, and the humanities. Study of the liberal arts opens to the student the vast scope and excitement of human intellectual and cultural achievement; it enlarges the student's vision and enriches the student's life; and it prepares the student for life-long learning, the prerequisite for continuing personal growth and fulfillment, vocational success, and a life of effective civic participation as an informed citizen.

Most basically, what an arts and sciences education teaches is the ability to think and learn; equipped with this fundamental life skill, arts and sciences graduates are well prepared not only for the next ripple of technological and cultural evolution, but for the endless waves of change that will affect their lives.

## Undergraduate Programs in Arts and Sciences

The University of Kentucky grants the following degrees in the College of Arts and Sciences:

- Bachelor of Arts
- Bachelor of Science

Students pursuing the Bachelor of Arts or the Bachelor of Science select from these majors: anthropology, biology, chemistry, classics, economics, English, foreign language and international economics, French, geography, geology, German, history, Latin American studies, linguistics, mathematical economics, mathematics, philosophy, physics, political science, psychology, Russian studies, sociology, Spanish, and topical studies.

## ADMISSION

Admission requirements are the same as those of the University, except for the topical studies major.

*"The College of Arts and Sciences has challenged me to increase my pursuit of lifetime academic knowledge, to not narrow my sights towards one particular discipline, and to both undertake and complete difficult tasks. I feel, by receiving a strong liberal arts education, that I am qualified for a vast array of jobs because I possess the skills needed to continually educate myself and lead others."*

– Stephen Matthew Dampier  
Biology major and Classics minor

*"The College of Arts & Sciences has not only prepared me for a career, but for life. Learning theories and information is critical, but a liberal arts education also taught me how to think critically and synthesize information. These are the tools and skills that will serve me for the rest of my life."*

– Kimberly O'Donnell  
Junior  
Double major in  
Political Science and Economics

## PROGRAMS AND SERVICES

### Academic Advising

Academic advising in the College of Arts and Sciences is provided by professional advisors, graduate students and selected faculty in the department of the student's major during advising conferences and throughout the year. Throughout the school year, all A&S students who have a freshman status should see a professional advisor located in the A&S Advising Center on the second floor of the Patterson Office Tower. Students who have a sophomore status and have declared biology, economics, foreign language and international economics, or psychology as a major may also meet with an A&S professional advisor.

All other students should contact the department of their major and request an advisor. However, the A&S professional advisors located in the A&S Advising Center on the second floor of the Patterson Office Tower are available for all A&S students needing authoritative information about University or College requirements.

All Arts and Sciences students on academic probation will have a STOP placed on their record and are expected to meet regularly with an Arts and Sciences professional advisor located in the A&S Advising Center on the second floor of Patterson Office Tower. Questions concerning these meetings should be addressed to the A&S Advising Center at (859) 257-8712.

Major Requirements Plans are obtained during the Junior/Graduation Progress appointment, or can be downloaded from the Web ([www.uky.edu/AS/Students/forms](http://www.uky.edu/AS/Students/forms))

and completed with the departmental advisor. All Plans must be approved by the departmental advisor and then turned in to 257 Patterson Office Tower for the Assistant Dean's Approval. Approved copies are sent to the student and her or his advisor. You will not be able to apply for graduation until this form has been turned in and approved.

Routine questions concerning USP, college, major and minor requirements, credits earned, grade-point average, repeat or bankruptcy options, transient student forms, forms required for graduation, and changing majors should be addressed to the staff in the A&S Advising Center, 257 Patterson Office Tower, (859) 257-8712; or [www.uky.edu/AS/Students](http://www.uky.edu/AS/Students).

### Dean's List

A student who completes at least **12 credits** of "letter" grades with a **3.60** or higher grade-point average with no "I" grades listed for the fall or spring semester will be named to the Dean's List in the College of Arts and Sciences. CLEP, AP, special exam and Independent Study credits are **excluded**. The student's cumulative grade-point average is not considered; only the grade-point average for that particular semester is relevant.

### Commencement and Departmental Honors

Commencement honors are determined by University standards. A full explanation of these honors can be found in the *Academic Requirements* section of this Bulletin (page 65). Please note that if a student has not completed at least 90 hours in the University

of Kentucky system, but has completed at least 60 hours, the student is eligible for commencement honors, but is held to a 0.2 point higher standard. If the student has not completed at least 60 hours, the student is not eligible for commencement honors. Commencement honors are indicated on the student's final transcript and announced at the College Baccalaureate Recognition Ceremony.

Departments in the College of Arts & Sciences award departmental honors to their outstanding graduates. The standards for departmental honors are not collectively established by the College, but determined by each department. For details on departmental honors, see *Guide to A&S Departmental Honors Requirements* on page 95. Departmental honors are indicated on the student's final transcript and announced at the College Baccalaureate Recognition Ceremony.

### Scholarships

For information on general scholarships in the College of Arts and Sciences, contact Cindy Iten, Director of the A&S Advising Center, 257 Patterson Office Tower, (859) 257-8712, or [www.uky.edu/AS/Students/scholarship.html](http://www.uky.edu/AS/Students/scholarship.html). Students interested in scholarships in a specific major should contact the individual department.

### College Policy on Learning Disabilities

The College of Arts and Sciences anticipates that virtually all of its students will satisfy all of its requirements. However, any student who believes that he or she can show evidence – by diagnostic testing and/or psychological evaluation – that he or she has a learning disability which warrants course substitution of any specific college requirement may request such an exception from the Assistant Dean of Student Affairs in the College. Students should begin their inquiries and/or discussions in the UK Disability Resource Center.

### Readmission After a Two-Year Absence

In accordance with the University Senate rules, which allow the dean of each college to determine which degree requirements a returning student shall follow, students should note the following: Students enrolling in the College of Arts and Sciences after an absence from the University of Kentucky system of two or more years will be expected to satisfy the university, college, and department requirements in effect at the time of readmission.

Students with extenuating circumstances may petition the Assistant Dean of Student Affairs for permission to continue under the degree requirements that were in effect for them during their previous enrollment in the UK system.

### ACADEMIC SUSPENSION AND REINSTATEMENT

The College of Arts and Sciences follows the general University rules for academic suspension and reinstatement, which are outlined in the *Academic Requirements* section of this Bulletin. Students placed on academic suspension **must be reinstated by the college in which they plan to enroll** before applying for readmission to the university. Students planning to pursue a degree program in the College of Arts and Sciences should arrange for reinstatement proceedings before May 15 for any fall semester reinstatement, or October 1 for any spring semester reinstatement by calling A&S Student Services, (859) 257-8712. Students who fail to request reinstatement prior to these deadlines will normally not be considered for reinstatement until the subsequent semester.

A student who has been suspended for a second time from the University of Kentucky will usually not be considered for reinstatement by the College of Arts and Sciences after **two years** have passed since the date the second suspension was given.

### THE BACHELOR OF ARTS AND BACHELOR OF SCIENCE DEGREES

The following information outlines the specific degree requirements for the B.A. and the B.S. in Arts and Sciences. Please read them carefully and also note these *specific* differences: The B.S. degree requires three hours in college disciplinary requirements for the natural sciences, social sciences and humanities beyond those required for the University Studies Program and requires 60 hours of physical, biological and/or mathematical sciences. The B.A. degree requires six hours in college disciplinary requirements for the natural sciences, social sciences and humanities beyond those required for the University Studies Program and requires 39 hours in course work numbered at or above the 300 level.

#### College Requirements for a Bachelor of Arts Degree

It is important to review the “**NOTES**” section that immediately follows the “College Requirements for a Bachelor of Science Degree” section.

To receive the Bachelor of Arts degree, students must:

1. Complete the University Studies program (USP).<sup>1</sup>
2. Complete the following college requirements:
  - a. Foreign Language Requirement. Students must satisfy one of the following options:
    1. satisfy the third and fourth semester of a college-level sequence in one language (including sign language) by successfully completing each semester course, or by demonstrating equivalent

competency on a departmentally approved placement exam; **or**

2. successfully complete three college-level semester courses in one language and two college-level semester courses in a second language (two college-level semester courses are considered equal to two years of a foreign language in secondary school as indicated on transcripts), or demonstrate equivalent competency on a departmentally approved placement exam (all options include sign language); **or**
3. attain the Undergraduate German Studies Certificate (contact the Department of Modern and Classical Languages, Literatures and Cultures for more information);

Courses taken to satisfy options 1, 2 or 3 above may not be taken pass/fail; **or**

4. To demonstrate your proficiency in a language not taught at UK, contact Mary Lynne Flowers at the UK Language Lab with regard to taking a proficiency exam. You are responsible for any costs related to testing. All A&S students are encouraged to take a foreign language placement exam at the time of their initial enrollment at UK or during their advising conference; **or**
5. If you have a specific language-learning disability that is certified through the UK Disability Resource Center, you may petition the College for a substitution of course work in lieu of completing the language courses normally taken for the foreign language requirement; **or**
6. International students, excluding native speakers of English, automatically fulfill this requirement; **or**
7. International students who graduated from a U.S. high school and are unable to provide proficiency exam results may petition the Assistant Dean for a waiver of the College foreign language requirement; students must provide official documentation establishing that English is their second language.

When appropriate, courses used to satisfy **b** through **d** below also can be used to satisfy the USP Cross-Cultural and Electives requirements.<sup>†</sup>

- b. Students must take **six** college hours in disciplines in the natural sciences.<sup>†</sup>
- c. Students must take **six** college hours in disciplines in the social sciences.<sup>†</sup>
- d. Students must take **six** college hours in disciplines in the humanities.
3. Complete at least **120** credit hours in courses acceptable to the College of Arts and Sciences.<sup>2</sup>
4. Complete at least **90** credit hours in Arts and Sciences courses.<sup>3</sup>

## Guide to A&S Departmental Honors Requirements

<u>Major</u>	<u>Cumulative GPA</u>	<u>Criteria</u>
<b>Anthropology</b>	3.5	Senior honors thesis related to general issues within the topical sub-discipline; formation of a 3-person advisory committee (the DUS always serves as one of these three); a thesis defense. Normally, students enroll in ANT 581 to receive course credit for their Senior Honors Thesis preparation. (30 pages, double-spaced.)
<b>Biology</b>	3.5	6 credit hours of BIO 395, Research in Biology. A public presentation of one's research results. Such a presentation can be a journal article, a seminar given to a diverse group, a talk or poster at a professional meeting, a thesis, or some form of public presentation approved by the Director of Undergraduate Studies in Biology.
<b>Chemistry</b>	3.5	12 hours in CHE or BCH courses (other than CHE 440G, 441G, and 572) at or above the 300 level. At least 6 of those hours must be in CHE 395. 3.5 cumulative GPA and 3.5 major GPA or above.
<b>Classics</b>	3.55	3.5 cumulative GPA or above and the completion of 300-level course in Greek or Latin with a grade of <b>B</b> or above.
<b>Economics</b>	3.2	3.2 cumulative GPA or above and 3.2 major GPA.
<b>English</b>	3.75	1) 3.75 cumulative GPA or above in courses taken at UK which count or could count toward the English major and premajor. 2) At least 8 such courses taken at UK (i.e., not transferred).
<b>FLIE-French</b>	3.5	3.5 cumulative GPA and a 3.75 major GPA or above.
<b>FLIE-German</b>	3.5	3.5 cumulative GPA or above.
<b>FLIE-Spanish</b>	3.5	3.5 cumulative GPA or above in 300-500 level Spanish courses.
<b>French</b>	3.5	3.5 cumulative GPA and a major GPA of 3.75 or above.
<b>Geography</b>	3.5	3.5 cumulative GPA and major GPA of 3.5 or above. Students should express their interest with graduating with Departmental Honors in a short letter to the Director of Undergraduate Studies in Geography before the last semester of course work begins.
<b>Geology</b>	3.5	3.3 cumulative GPA and senior thesis or 3.5 cumulative GPA or above.
<b>German</b>	3.5	3.5 cumulative GPA or above.
<b>History</b>	3.3	3.3 cumulative GPA or above and the successful completion of the HIS 470/471 sequence.
<b>Latin American Studies</b>	3.5	3.5 cumulative GPA or above in 300-500 level Latin American Studies and Spanish courses.
<b>Linguistics</b>	3.75	3.75 cumulative GPA or above in courses taken at UK which count or could count toward the linguistics major and premajor. At least 8 such courses taken at UK (i.e., not transferred).
<b>Mathematical Economics</b>	3.2	3.2 cumulative GPA or above and 3.2 major GPA or above.
<b>Mathematics</b>	3.5	3.5 cumulative GPA or above.
<b>Philosophy</b>	3.2	3.2 cumulative GPA or above.
<b>Physics</b>	3.4	3.4 cumulative GPA or above and 3.4 major GPA or above in physics and astronomy. All students awarded department honors will have fully participated in independent study or research including the preparation of a final report; participation with a high grade in a three-credit-hour PHY 395 or participation in a summer research experience are ways of achieving this. Other factors such as citizenship, leadership in the Society of Physics Students, and other meritorious activity will be considered in the selection of seniors for graduation with honors.
<b>Political Science</b>	3.25	3.25 cumulative GPA or above and 3.5 major GPA or above. Students must complete PS 490, Honors in Political Science, during their senior year. In this course, students will be expected to carry out a major research project. Normally this course is offered during the spring semester; however, it can be completed by special arrangement if it is not offered during the spring.
<b>Psychology</b>	3.5	3.5 cumulative GPA or above and either successfully completing of PSY 495 and PSY 496 or serving as PSI CHI president or PSI CHI vice president.
<b>Sociology</b>	3.5	3.5 cumulative GPA or above.
<b>Spanish</b>	3.5	3.5 cumulative GPA or above in 300-500 level Spanish courses.
<b>Topical</b>	3.6	3.6 cumulative GPA or above and recommendation of the Associate Dean based on the final thesis.

5. Complete at least **39** credit hours in courses numbered at or above the 300 level.<sup>4</sup>

6. Complete at least **six** credit hours of premajor courses in the departmental major. This is not required for the Topical Studies Major or the foreign language and international economics major.

7. Complete at least **42** credit hours as listed on the Major Requirements Plan.<sup>6</sup> At least 24 of these hours should be at or above the 300 level.

8. Complete at least one course in disciplines from the natural sciences or social sciences that includes some laboratory or field experience. (See the description of the *College Laboratory or Field Experience Requirement* which follows.)

9. Attain an overall grade-point average of at least 2.0.

10. Attain a grade-point average of at least 2.0 in all Major Requirements Plan courses (including all premajor courses).

11. Complete a minimum of **six** credit hours of free electives. These college electives cannot be counted towards University Studies Program or Arts and Sciences major requirements.

†See *College Core Requirements for B.A. and B.S. Degrees* following the next section.

### College Requirements for a Bachelor of Science Degree

It is important to review the “**NOTES**” section that immediately follows the “College Requirements for a Bachelor of Science Degree” section.

To receive the Bachelor of Science degree, students must:

1. Complete the University Studies program (USP) requirements.<sup>1</sup>

2. Complete the following college requirements:

a. Foreign Language Requirement. Students must satisfy one of the following options:

1. satisfy the third and fourth semester of a college-level sequence in one language (including sign language) by successfully completing each semester course, or by demonstrating equivalent competency on a departmentally approved placement exam; **or**

2. successfully complete three college-level semester courses in one language and two college-level semester courses in a second language (two college-level semester courses are considered equal to two years of a foreign language in secondary school as indicated on transcripts), or demonstrate equivalent competency on a departmentally approved placement exam (all options include sign language); **or**

3. attain the Undergraduate German Studies Certificate (contact the Department of Modern and Classical Languages, Literatures and Cultures for more information);

Courses taken to satisfy options 1, 2 or 3 above may not be taken pass/fail; **or**

4. To demonstrate your proficiency in a language not taught at UK, contact Mary Lynne Flowers at the UK Language Lab with regard to taking a proficiency exam. You are responsible for any costs related to testing. All A&S students are encouraged to take a foreign language placement exam at the time of their initial enrollment at UK or during their advising conference; **or**

5. If you have a specific language-learning disability that is certified through the UK Disability Resource Center, you may petition the College for a substitution of course work in lieu of completing the language courses normally taken for the foreign language requirement; **or**

6. International students, excluding native speakers of English, automatically fulfill this requirement; **or**

7. International students who graduated from a U.S. high school and are unable to provide proficiency exam results may petition the Assistant Dean for a waiver of the College foreign language requirement; students must provide official documentation establishing that English is their second language.

When appropriate, courses used to satisfy **b** through **d** below also can be used to satisfy the USP Cross-Cultural and Electives requirements.<sup>†</sup>

b. Students must take **three** college hours in disciplines in the natural sciences.<sup>†</sup>

c. Students must take **three** college hours in disciplines in the social sciences.<sup>†</sup>

d. Students must take **three** college hours in disciplines in the humanities.

3. Complete at least **120** credit hours in courses acceptable to the College of Arts and Sciences.<sup>2</sup>

4. Complete at least **90** credit hours in Arts and Sciences courses.<sup>3</sup>

5. Complete at least **60** credit hours in the physical, biological and/or mathematical sciences.<sup>5</sup>

6. Complete at least **six** credit hours of premajor courses in the departmental major. This is not required for the Topical Major or the foreign language and international economics major.

7. Complete at least **42** credit hours as listed on the Major Requirements Plan.<sup>6</sup> At least 24 of these hours should be at or above the 300 level.

8. Complete at least one course in disciplines from the natural sciences or social sciences that includes some laboratory or field experience. (See the description of the *College Laboratory or Field Experience Requirement* which follows.)

9. Attain an overall grade-point average of at least 2.0.

10. Attain a grade-point average of at least 2.0 in all Major Requirements Plan courses (including all premajor requirements).

11. Complete a minimum of **six** credit hours of free electives. These college electives cannot be counted towards University Studies Program or Arts and Sciences major requirements.

†See *College Core Requirements for B.A. and B.S. Degrees* following the next section.

### NOTES

1. See the *University Studies Program* section of this Bulletin for a detailed explanation of the requirements.

With regard to the A&S departments which provide an alternate route for satisfying the USP Oral Communication Requirement, please use the following guide:

**Aerospace Studies** – AFS 311, 313, 411, 413 (complete all)

**Anthropology** – COM 199 plus ANT 582

**Chemistry** – COM 199 plus CHE 572 (taken twice in separate semesters)

**Economics** – COM 199 plus ECO 499

**French** – COM 199 plus FR 203 plus FR 312

**German** – GER 206 plus GER 307

**Military Science** – AMS 301, 302, 341, 342 (complete all)

**Russian and Eastern Studies** – COM 199 plus RAE 401

2. a. 001-099 courses, or courses followed by an “R” designation **cannot** be counted as credit towards a bachelor’s degree.

b. Physical education one-hour service courses **are** acceptable as electives only and may count toward the total 120 minimum hours needed to graduate.

c. A maximum of 16 semester credit hours earned in military science (AMS) and aerospace studies (AFS) are acceptable towards fulfilling both the College 90-hour and 120-hour requirement for the B.A. or B.S. degree.

d. A maximum of 12 semester credit hours earned in experiential education and internship courses (EXP 396, departmental 399 courses) will be accepted. See *Experiential Education and Internship Course* section within the Arts and Sciences section of the Bulletin.

e. All courses offered by the College of Arts and Sciences are acceptable.

f. Courses transferred from other institutions and judged by the assistant dean of student affairs to be equivalent or comparable to Arts and Sciences courses are acceptable.

g. Usually the College will apply only six hours of technical course work taken at a UK Community College. Technical course work from other institutions is not accepted.

h. The student is permitted to elect and count toward graduation courses in other colleges within the University of Kentucky system or their equivalent from other institutions, not to exceed 30 hours. Hours taken in the other colleges at UK gained during the junior and senior years may, if at the 200-level or above, be counted towards the major requirements with approval from the faculty advisor and the assistant dean for student services.

i. A maximum of 30 semester credit hours taken through UK’s Independent Study Program.

j. Courses with an “S” grade designation **cannot** be counted as credit toward a bachelor’s degree.

3. Courses classified as Arts and Sciences courses for purposes of the 90-hour requirement include all courses offered by the College of Arts and Sciences; all art history courses; all courses in music and theatre appreciation and the history of music and theatre; ARC 820, ARC 822; KHP 290; all economics courses; all undergraduate courses in the Department of Computer Sciences (CS); all undergraduate courses in the Department of Communication

(COM); and all American Sign Language courses officially transferred to the student's UK record.

4. CHE 230, 231, 232, 233 and ARC 820 and 822 will count towards the 39 credit hours in courses numbered at or above the 300 level needed for degree requirements. Please note that courses numbered 800-899 cannot be counted as 300-level and above for the purpose of completing the 39 hours needed for the degree, with the exception of ARC 820 and 822.

5. The following courses will count toward the required 60 credit hours in the physical, biological and/or mathematical sciences hours for the Bachelor of Science degree: all courses listed under the USP Natural Sciences area; all anatomy courses; all physiology courses; all biochemistry courses; all statistics courses; all computer science courses; ECO 391; GEO 130; PHI 120 and PHI 320; NFS 101; PSY 215, PSY 216, PSY 312, PSY 456, and PSY 565; and ANT 230, 332, and 333.

6. Major Requirements Plans are obtained during the Junior/Graduation Progress appointment, or can be downloaded from the Web ([www.uky.edu/AS/Students/forms](http://www.uky.edu/AS/Students/forms)) and completed with the departmental advisor. All Plans must be approved by the departmental advisor and then turned in to 257 Patterson Office Tower for the Assistant Dean's Approval. Approved copies are sent to the student and her or his advisor. You will not be able to apply for graduation until this form has been turned in and approved.

## College Core Requirements for B.A. and B.S. Degrees

To satisfy the Arts and Sciences college core requirement, students complete **three to six** college hours in the disciplines of the natural and mathematical sciences, social sciences, humanities, and foreign languages. Students may also use courses from other colleges on the main campus within these areas required for the college, if they are listed within the approved sections of the University Studies Program. Please refer to the course listing under VI., VII. and VIII. of the University Studies Program in this Bulletin or the *Schedule of Classes*.

### Natural Sciences

- All courses offered by Arts and Sciences departments or programs within the disciplines of the natural sciences including courses with the following departmental prefixes: **AST, BIO, CHE, GLY, PHY**.
- The following courses may also be used to satisfy the Arts and Sciences College requirement for course work within the discipline of natural sciences:
  - ANA 209
  - ANT 230, 332, 333
  - ENS 200, 400
  - NFS 101
  - PGY 206
  - PSY 312, 456, 565

Students may count any hours in excess of six (six being the requirement for completing the Natural Sciences area of the Disciplinary Requirement for the University Studies Program) toward fulfillment of the "college hours" required in Arts and Sciences in the Natural Sciences area of the USP Disciplinary Requirement. This will be on an "hours" basis rather than on a "course number" basis. Students may find themselves with one to four credits available for use in meeting the college hours requirement in Natural Sciences. This course work beyond the six hours of USP will apply to all Arts and Sciences students regardless of where the course work was completed, i.e., main campus, community colleges, or transfer credit. This rule applies **only** to the Natural Sciences area.

### Social Sciences

- All courses offered by Arts and Sciences departments or programs within the disciplines of the social sciences including courses with the following depart-

mental prefixes: **AC, ANT, APP, ECO, GEO, PS, PSY, SOC, WS**.

- The following courses may also be used to satisfy the Arts and Sciences College requirement for course work within the discipline of social sciences:
  - AAS 200, 328, 336, 417G, 431G, 432
  - ANT/ENG/LIN 515
  - ANT/ENG/LIN 516
  - ENS 200, 400
- The following course **may NOT** be used in the social sciences area: WS 201.

### Humanities

- Excluding the courses listed below**, all courses offered by Arts and Sciences departments or programs within the disciplines of the humanities, including courses with the following prefixes: **A-H, AAS, CLA, ENG, FR, GER, HIS, HON, JPN, LAS, LIN, PHI, RAE, RS, SPA**.
- The following courses **may NOT** be used in the humanities area:
  - AAS 200, 328, 336, 417G, 431G, 432
  - CLA 131
  - PHI 120, 320
  - ENG 101, 102, 105, 203, 204, 205, 207, 306, 405, 407, 507, 509
  - CLA 101, 102, 131, 151, 152, 201, 202, 251, 252
  - FR 011, 101, 102, 106, 201, 202, 203, 204, 300, 306, 307, 310, 312, 406, 412, 507, 516, 553, 570
  - GER 011, 101, 102, 111, 112, 201, 202, 205, 206, 211, 212, 307, 308, 310, 507, 553, 612
  - ITA 101, 102, 201, 202
  - JPN 101, 102, 201, 202, 301, 302, JPN/ANT 321, JPN/GEO 334, JPN/GEO 551
  - RAE 101, 102, 115, 116, 130, 131, 140, 141, 150, 151, 201, 202, 230, 231, 240, 241, 303, 304, 305, 306, 410, 411, 420, 430G
  - SPA 011, 101, 102, 141, 142, 201, 202, 210, 211, 241, 242, 302, 311, 411, 501, 502, 504, 506, 553
- The following courses may also be used to satisfy the Arts and Sciences College requirement for course work within the discipline of humanities:
  - AMS 201
  - ART 100
  - MUS 203, 222, 301, 302, 303, 325
  - TA 101, 380, 381, 382
  - WS 201

### College Laboratory or Field Experience Requirement

The college requires its students to complete at least one course which includes some laboratory or field experience. In such courses the external world is observed in a controlled manner using systematic techniques and methods. A substantial portion of the course must include data collection, data analysis, and hypothetical testing under supervised conditions. The approved courses for the laboratory requirement are:

### Natural Sciences

**Biology** – BIO 105\*, 107\*, 111, 151, 153, 209  
**Chemistry** – CHE 106, 115  
**Physics** – PHY 211, 213, 241, 242  
**Geological Sciences** – GLY 111, 112, 115, 220  
 \*Offered only at UK community colleges.

### Social and Behavioral Sciences

**Anthropology** – ANT 541, 585  
**Political Science** – PS 245  
**Psychology** – PSY 100, 215  
**Sociology** – SOC 302, 303

When appropriate, other upper level courses may be used to satisfy this requirement by petition.

## MAJOR REQUIREMENTS

A major in the College of Arts and Sciences is composed of premajor courses (except Foreign Language and International Economics and Topical Studies majors) and a 42-hour program referred to as the "major requirements." Each department must specify the requirements for their majors, which shall include a minimum of 18 hours of 200-level and above courses in that department, with the provision that this minimum may be set at 15 hours by a department with approval of the Arts and Sciences Faculty Council and Undergraduate Council if there are special reasons for a lower minimum. Specific requirements for each departmental major are listed in this Bulletin under each department heading.

General requirements are as follows:

- A premajor of at least 6 credits in the department is required, except for topical studies majors and foreign language and international economics majors.
  - A total of 42 credits is required on the Major Requirements Plan, excluding the pre-major courses.
  - 100-level courses may not be counted in the Major Requirements Plan except in the area of premajor.
  - Courses *electively* taken pass-fail may not be listed.
  - At least 24 credits must be in courses at the 300 level or above.
  - In addition to premajor requirements, a minimum of 18 credits in a department is required for a major.
  - At least 14 credits for the Major Requirements Plan must be **outside** the major department.
  - An overall grade-point average of at least 2.0 in all courses listed on the Major Requirements Plan, including all premajor courses. This includes all grade attempts except those used for which repeat options or academic bankruptcy has been approved.
- Major Requirements Plans are obtained during the Junior/Graduation Progress appointment, or can be downloaded from the Web ([www.uky.edu/AS/Students/forms](http://www.uky.edu/AS/Students/forms)) and completed with the departmental advisor. All Plans must be approved by the departmental advisor and then turned in to 257 Patterson Office Tower for the Assistant Dean's Approval. Approved copies are sent to the student and her or his advisor. You will not be able to apply for graduation until this form has been turned in and approved.

Students who have taken courses (200 level or above) outside the college should talk with their faculty advisor to see if these courses are applicable to their Major Requirements Plan.

### Topical Studies Majors

Students who have multiple interests or interests which do not fall into departmental areas may select a topic for concentration instead of a departmental major. Topical studies majors offer academic flexibility and allow students to cut across departmental and col-

lege lines in constructing meaningful and imaginative programs. Courses in several departments might be selected to pursue special interests – Asian studies, for instance. Other examples might be African American studies, pre-law, human studies, and women studies.

Each topical studies major is designed and directed by the student in consultation with a faculty advisor in the general area of study, and in consultation with the topical studies coordinator at the A&S Advising Center and an Arts and Sciences Associate Dean.

The topical studies major is the only selective admission program in the College of Arts and Sciences. The student must have a cumulative UK grade-point standing of at least 2.5 to be accepted to the topical studies major. The specific requirements of the topical studies major are that the student must meet University and College requirements, must enroll in and complete at least 30 credit hours after formal admission, and complete the 42-hour Major Requirements Plan (see preceding section entitled “Major Requirements”). Except for electives, all of the student’s work must be related to the topic. Additionally, in the senior year, the student must complete a comprehensive paper or project that serves to integrate his or her topical studies field. Frequently, it is advantageous to begin writing this paper or project in the context of an independent work course or a seminar, with the instructor’s approval. The paper or project proposal must be approved by the faculty advisor, an Arts and Sciences Associate Dean, and the topical studies coordinator before significant work has begun on the project. Students must submit the final paper or project for review and approval **no later than eight weeks** before finals during the semester the student intends to graduate. The paper should be submitted to the Associate Dean **no later than six weeks** before the final exam week during the semester the student intends to graduate. Departmental honors for topical studies majors are determined by the Associate Dean and the Topical Studies Coordinator. To be eligible for departmental honors, a student must have a cumulative GPA of at least 3.6 and a final paper or project that has been judged to be outstanding.

For more information, contact the Arts and Sciences Topical Studies Coordinator in the A&S Advising Center (257 Patterson Office Tower); or visit the Topical Studies major Web site at: [www.uky.edu/AS/topical](http://www.uky.edu/AS/topical).

### A Second Major

A student may obtain a second major by meeting all requirements in two departments. Major work in one department can, if there is a generic relationship, serve as the outside field in the second major, and vice versa. The student must indicate his or her second major to the A&S Advising Center, 257 Patterson Office Tower. He or she must have an advisor in both departments and must turn in two Major Requirements Plans. If one of the majors is in another college, the student is still required to

submit a Major Requirements Plan or a list of requirements from the other college. The student who completes requirements for a second major will receive only one degree, but his or her transcript and diploma will reflect the two majors.

For information on second majors (not the same as second degrees), consult the *Academic Requirements* section of this Bulletin.

### A Second Bachelor’s Degree

A student may obtain a second bachelor’s degree by completing all university requirements for one degree; by completing all the major requirements of both degrees; and by completing all college requirements of both degrees. Courses taken towards fulfilling one degree may also count towards fulfilling parallel requirements in the other, but the total credits in the two degree programs must be at least 144 hours. Major work in one department can, if there is a generic relationship, serve as the outside field in the second major and vice versa. The student must indicate his/her double degree in his/her primary college. If both degrees are in Arts and Sciences, he or she must have an advisor in both departments and must turn in two Major Requirements Plans. The student may elect to receive the degrees simultaneously, if college and departmental requirements can be met simultaneously. For information regarding double degrees (not the same as double majors), consult the *Academic Requirements* section of this Bulletin.

### Minors

The College of Arts and Sciences does not require minors. However, students can earn a minor in the following disciplines in the college:

- anthropology
- biological sciences
- chemistry
- classical civilization
- economics
- English
- French
- geography
- geology
- German
- Greek
- history
- Latin
- Latin American studies
- linguistics
- mathematics
- philosophy
- physics
- political science
- psychology
- Russian
- sociology
- Spanish
- statistics

Interdisciplinary minors are also available in:

- African American studies
- American culture
- Appalachian studies
- environmental studies
- Indian culture
- Islamic studies
- Japan studies
- Judaic studies
- women’s studies

Minors can only be awarded in conjunction with a UK undergraduate degree. Additionally, students cannot pursue a minor in the same discipline as their major. This includes the area of concentration for a Topical Studies Major.

For more information about choosing or declaring a minor, students should contact the department where the minor is offered and consult the departmental section of this Bulletin. To officially declare a minor, students must complete a Declaration of Minor form ([www.uky.edu/AS/students/forms](http://www.uky.edu/AS/students/forms)) with the faculty advisor in the department where the minor is offered and take the completed form to the A&S Advising Center, 257 Patterson Office Tower.

### The Preparation of Teachers

Students in the College of Arts and Sciences may, by completing certain courses in the College of Education, qualify for secondary teaching certificates. For specific information, students should consult the College of Education, 166 Taylor Education Building.

Any Arts and Sciences student intending to seek teaching certification should so indicate to his or her faculty advisor. Most departments assign such students to a special advisor. The student should also contact the Associate Dean of the College of Education. As soon as the student has determined to seek certification he or she is assigned an advisor both in the College of Education and in the major department in the College of Arts and Sciences.

Students seeking certification should be sure to familiarize themselves with the requirements of both colleges. The sooner and the more thoroughly this is done, the greater the advantage to the student.

## INFORMATION ON COURSES

### Transfer of UK Community College Courses

The College of Arts and Sciences applies toward baccalaureate degree requirements all UK community college courses with the same prefix and number designation as courses taught at the University. Usually the college will apply up to six hours of technical course work taken at a UK community college. Beyond these six credit hours, each course will be evaluated on an individual basis and as it applies to the student’s baccalaureate degree program.

## Independent Work Courses

A junior or senior may, with prior approval of his or her faculty advisor and the instructor who would direct the work, register for an independent work course in his or her major department. Normally, a cumulative GPA of 3.0 in the major is required. In exceptional circumstances a nonmajor or topical studies major may be permitted to enroll in a departmental independent work course. Such a course is characterized by special assignments for study, regular conferences, reports, and usually involves preparation of a paper. The instructor in each case must file with the department evidence of the nature of the work achieved. Credit for such courses may be granted to undergraduates to an amount of not more than 12 hours.

## Experiential Education and Internship Courses

The College of Arts and Sciences accepts experiential education and internship courses (such as EXP 396, departmental 399 courses,) on a pass-fail basis only, regardless of which college is offering the courses. A total of 12 credit hours in these courses may be counted toward the 120 credit hours required for graduation. However, College of Arts and Sciences majors may only earn a maximum of six credit hours of experiential education credit in one semester.

## ROTC Program

A maximum of 16 semester credit hours earned in American Military Studies and Air Force Studies courses will be accepted towards fulfilling the 90 hours of A&S courses required and the 120 minimum number of hours needed for graduation with a baccalaureate degree in the College of Arts and Sciences.

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## AEROSPACE STUDIES (Air Force ROTC)

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The Department of Aerospace Studies provides a campus education program through which qualified students can simultaneously earn an Air Force commission and a college degree. Faculty members are experienced, active duty Air Force officers with advanced degrees.

### Admission to the Program

Non-scholarship freshmen and sophomores may register for Air Force Studies (AFS) courses without incurring a military commitment.

Sophomores and other students with four semesters of school remaining in a graduate or undergraduate status may qualify to enter the two-year program, which places them directly into the Professional Officer Course (POC) after completion of field training. The applicant must complete the Air Force Officer Qualifying Test, a medical evaluation, a physical fitness test, an interview with a board of Air Force officers, and be selected by AFROTC Headquarters.

Applicants for the POC attend a four- or six-week field training session during the summer usually preceding the semester they will enter the POC. Cadets who have completed the first two years of AFROTC attend a four-week camp; those who have not attend for six weeks.

Cadets receive travel pay to and from field training and are paid for their time there.

### Requirements

An academic major in aerospace studies is not offered. However, by successfully completing either the two-year or the four-year Air Force ROTC program, a qualified student may concurrently earn a commission as an active duty Air Force Second Lieutenant while completing requirements for a degree. A student may enroll in any Air Force ROTC course at the same time that registration for other undergraduate courses is accomplished.

### AFROTC Curriculum

The AFROTC curriculum consists of both academic classes and leadership laboratory or seminar classes. The General Military Course (GMC) is a two-year course normally taken during the freshman and sophomore years. The Professional Officer Course (POC) is a two-year course normally taken during the junior and senior years. Along with academic classes each semester the GMC and POC also take leadership laboratory classes.

In the GMC, there are four academic classes (AFS 111, AFS 113, AFS 211, and AFS 213). These cover two main themes—the development of air power and the contemporary Air Force in the context of the U.S. military organization. The GMC academic classes are open to any student.

In the POC, there are four academic classes (AFS 311, AFS 313, AFS 411, and AFS 413). These cover Air Force management and leadership and American defense policy. Entry into the POC is competitive and is based on Air Force Officer Qualifying Test scores, grade-point averages, and evaluation by the Professor of Aerospace Studies. Only physically qualified students in good academic standing may compete for entry into the POC.

Students enrolled as cadets in the two-year or four-year program are involved once a week in a one-credit-hour course in the cadet corps training program designed to simulate a typical Air Force organization and its associated functions. During the GMC, the courses are called leadership seminars and include AFS 112, AFS 114, AFS 212, and AFS 214. The POC leadership laboratory classes are AFS 312, AFS 314, AFS 412, and AFS 414. The leadership laboratories are largely cadet-planned and conducted under the concept that they provide leadership training experiences that will improve the cadets' capabilities as Air Force officers. Leadership laboratory is open to students who are members of the Air Force Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

## Field Training

Field training is offered at Air Force bases across the country. The student receives junior officer training and leadership development with other students, and the Air Force has an opportunity to evaluate each student as a potential member of its officer corps. Field training courses include cadet orientation, survival training, officer training, aircraft and aircrew orientation, physical training, organizational and functional aspects of an Air Force base, career orientation, small arms familiarization, first aid, and other supplemental training. Students are paid for their time at field training.

## Scholarships

Students interested in AFROTC scholarships should refer to the *Student Financial Aid, Awards, and Benefits* section of this Bulletin or call (859) 257-7115. Information is current as of January 2004 and is subject to change.

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## ANTHROPOLOGY

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The Department of Anthropology offers opportunities to learn about the diverse people of today's world, as well as about their biological and cultural origins. This area of study deals with ecology, society, biology, culture, and language, among other aspects of human life. In addition, anthropologists study history and evolution in both a cultural and biological framework.

Anthropology provides an excellent foundation for careers in a variety of professions and occupations, including community health, public health policy, medicine and health services, planning and community development, international relations and development, private business, government, law, journalism, museum work, and university teaching and research.

Students can major or minor in anthropology. The major is structured to provide the student with a broad overview of the major subdisciplines: cultural anthropology, physical anthropology and archaeology. It also allows sufficient flexibility for a student to concentrate on a specific area of interest.

Visit our Web site at: [www.uky.edu/AS/Anthropology](http://www.uky.edu/AS/Anthropology).

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## Bachelor of Arts with a major in ANTHROPOLOGY

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### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.



**Professor Tom D. Dillehay, Anthropology – recipient of the Research Professorship in recognition of outstanding research achievement.**

**University Studies Program Requirements**

I. Math .....	0-3
II. Foreign Language .....	0-8
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication* (partially completed by Major Requirements) .....	1
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural (choose a 300+ level Humanities course) .....	3
X. Electives (choose a Natural Science and a 300+ level Humanities course) .....	6
<b>USP hours:</b> .....	<b>34-51</b>

**College Requirements**

I. Foreign Language (placement exam recommended) .....	0-8
II. Disciplinary Requirements	
a. Natural Science (completed by Premajor and USP Elective Requirements) .....	
b. Social Science (completed by Premajor Requirements) .....	
c. Humanities (completed by USP Cross-Cultural and Elective Requirements) .....	
III. Laboratory or Field Work (can be completed by Major Requirement) .....	
IV. Electives .....	6
<b>Subtotal: College Hours:</b> .....	<b>6-14</b>

**Premajor Requirements**

>ANT 220 Introduction to Cultural Anthropology ...	3
>ANT 230 Introduction to Physical Anthropology ..	3
>ANT 240 Introduction to Archaeology .....	3
<b>Subtotal: Premajor Hours:</b> .....	<b>9</b>

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

<b>Regional Focus</b> .....	6
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**Option 1:** Choose two ethnology courses that treat material from **different** world regions (e.g., Old World or New World). Choose from: ANT 221, 321, 323, 324, 327, 431G, 432, 470G, 534.

**Option 2:** Choose one ethnology course and one archaeology course that treat material from the **same** world region (e.g., Old World or New World). Choose ethnology courses from: ANT 221, 321, 323, 324, 327, 431G, 432, 470G, 534. Choose archaeology courses from: ANT 241, 242, 320, 322, 342, 555.

**Subdisciplinary Breadth** ..... 9  
Choose one cultural anthropology course from the following: ANT 340, 375, 401, 429, 435, 525, 526, 532, 538, 550; one physical anthropology course – either ANT 332, 333 or 440; and one archaeology course from the following: ANT 320, 322, 342, 541, 543, 545, 555, 585.

ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Regional Focus and/or Subdisciplinary Breadth requirements with the consent of the Director of Undergraduate Studies.

**From Outside the Major Department**

Choose 15 hours outside Anthropology at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here.

**Subtotal: Other Major hours:** ..... 30

**Major Core Requirements**

ANT 301 History of Anthropological Theory .....	3
ANT 433 Social Organization .....	3
ANT 490 Anthropological Research Methods .....	3
*ANT 582 Senior Integrative Seminar .....	3
<b>Subtotal: Major Core Hours:</b> .....	<b>12</b>

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 4

**Total Minimum Hours Required for Degree** ..... 120

>Course used towards completion of a USP or College Requirement.

\*Note: COM 199 + ANT 582 satisfy the USP Oral Communication Requirement.

**Bachelor of Science with a major in ANTHROPOLOGY**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. **Please note:** courses with an ANT prefix are generally **not** accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math .....	0-3
II. Foreign Language .....	0-8
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication* (partially completed by Major Requirements) .....	1
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural (choose a Humanities course) ....	3
X. Electives (choose six hours of Natural Science courses) .....	6
<b>USP hours:</b> .....	<b>34-51</b>

**College Requirements**

I. Foreign Language (placement exam recommended) .....	0-8
II. Disciplinary Requirements	
a. Natural Science (completed by Premajor Requirement) .....	
b. Social Science (completed by Premajor Requirement) .....	
c. Humanities (completed by USP Cross-Cultural Requirement) .....	
III. Laboratory or Field Work (can be completed by Major Requirement) .....	
IV. Electives .....	6

**College Requirement Hours:** ..... 6-14

**Premajor Requirements**

>ANT 220 Introduction to Cultural Anthropology ...	3
>ANT 230 Introduction to Physical Anthropology .....	3
>ANT 240 Introduction to Archaeology .....	3
<b>Premajor hours:</b> .....	<b>9</b>

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

<b>Regional Focus</b> .....	6
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**Option 1:** Choose two ethnology courses that treat material from **different** world regions (e.g., Old World or New World). Choose from: ANT 221, 321, 323, 324, 327, 431G, 432, 470G, 534.

**Option 2:** Choose one ethnology course and one archaeology course that treat material from the **same** world region (e.g., Old World or New World). Choose ethnology courses from: ANT 221, 321, 323, 324, 327, 431G, 432, 470G, 534. Choose archaeology courses from: ANT 241, 242, 320, 322, 342, 555.

**Subdisciplinary Breadth** ..... 9

Choose one cultural anthropology course from the following: ANT 340, 375, 401, 429, 435, 525, 526, 532, 538, 550; one physical anthropology course – either ANT 332, 333 or 440; and one archaeology course from the following: ANT 320, 322, 342, 541, 543, 545, 555, 585.

ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Regional Focus and/or Subdisciplinary Breadth requirements with the consent of the Director of Undergraduate Studies.

**From Outside the Major Department**

Choose 15 hours outside Anthropology at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here.

**Other Major hours:** ..... 30

**Major Core Requirements**

ANT 301 History of Anthropological Theory .....	3
ANT 433 Social Organization .....	3
ANT 490 Anthropological Research Methods .....	3
*ANT 582 Senior Integrative Seminar .....	3
<b>Major Core hours:</b> .....	<b>12</b>

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 4

**Total Minimum Hours Required for Degree** ..... 120

>Course used towards completion of a USP or College Requirement.

\*Note: COM 199 + ANT 582 satisfy the USP Oral Communication Requirement.

## Minor in Anthropology

Students must complete a total of 21 hours of course work:

### Premajor Courses (9 hours)

Students must take ANT 220, 230, 240.

### Additional Courses (12 hours)\*

Students must take four ANT courses from at least two subdisciplines. Two courses must be at the 200 level or above and two courses must be at the 300 level or above.

\*ANT 350, 399, 580, 581 and other ANT courses not listed here may be used to fulfill the Additional Courses requirement with the consent of the Director of Undergraduate Studies.

**Courses taken to meet a requirement in one area cannot be used to meet a requirement in another area of the minor.**

## BIOLOGY

To address the breadth and depth essential to educating biologists, the biology major is structured to include both a broad foundation through core courses and opportunity for specialization within a biological subfield through biology electives. The major is designed to prepare the student for a post-baccalaureate profession in biology, for advanced professional training in the health sciences, or for graduate study in basic and applied areas of the biological sciences.

### Bachelor of Arts with a major in BIOLOGY

#### 128 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

#### University Studies Program Requirements

- I. Math (completed by Premajor Requirement)
- II. Foreign Language (placement exam recommended) ..... 0-8
- III. Inference-Logic (completed by Premajor Requirement)
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences (completed by Premajor Requirements) ..... 6
- VII. Social Sciences ..... 6
- VIII. Humanities ..... 6
- IX. Cross-Cultural (choose a Humanities course) .... 3
- X. Electives (choose two Social Science courses) .... 6

**USP hours: ..... 27-38**

#### College Requirements

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by Premajor Requirements)
  - b. Social Science (completed by USP Elective Requirement)
  - c. Humanities (partially completed by USP Cross-Cultural Requirement) ..... 3

- III. Laboratory or Field Work (completed by Premajor Requirement)
  - IV. Electives ..... 6
- College Requirement Hours: ..... 9-17**

#### Premajor Requirements

- \*MA 123 Elementary Calculus and its Applications  
or  
\*MA 113 Calculus I ..... 3-4
- \*CHE 105 General Chemistry I ..... 3  
\*CHE 107 General Chemistry II ..... 3  
\*CHE 115 General Chemistry Laboratory ..... 3  
\*BIO 150 Principles of Biology I ..... 3  
BIO 151 Principles of Biology Laboratory I ..... 2  
BIO 152 Principles of Biology II ..... 3  
BIO 153 Principles of Biology Laboratory II ..... 2
- Premajor hours: ..... 22-23**

#### Major Requirements

##### Major Core Requirements

- BIO 304 Principles of Genetics ..... 4  
BIO 315 Introduction to Cell Biology ..... 3  
BIO 325 Introductory Ecology ..... 4  
^BIO 350 Animal Physiology ..... 4  
BIO 425 Biology Seminar or  
BIO 499 Biology Research Seminar ..... 1
- ^Students with a strong interest in plants may substitute BIO 430G or BIO 476G for BIO 350 with the approval of faculty advisor.

**Major Core hours: ..... 16**

##### Other Course Work Required for the Major

##### From the Major Department:

To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses **must** contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology. Note that ANA 209, BIO 208 and PGY 206 **cannot** be used for this requirement ..... 16

A&S 300, 500 (when offered by the School of Biological Sciences)

- ABT 201, 395, 401, 460, 461, 495  
ANA 395, 511, 512, 513, 529  
ANT 332, 551  
ASC 364, 378, 395, 580  
BCH 395, 401G, 501, 502, 503, 517  
BIO – all 200+ level courses except BIO 208  
CHE 226, 233, 395, 440G, 441G, 442G, 446G, 532, 533, 550, 552, 553, 558  
ENT 300, 310, 320, 395, 402, 460, 461, 561, 562, 564, 568  
FOR 219, 221, 315, 340, 375, 402, 410, 564  
FSC 530  
GLY 401G  
MI 494G, 595, 598  
NRC 320, 395, 420G, 450G, 455G  
PGY 412G, 502, 560, 590  
PLS 220, 320, 330, 332, 366, 367, 444, 450G, 502, 564, 566, 567  
PPA 395, 400G, 503  
PSY 312, 456, 459, 552, 558, 565  
STA 281, 291, 292, 503, 570 (Generally only **one** statistics course is accepted. Other STA courses may be accepted at the discretion of your advisor, and this may depend upon the area of biology in which you choose to specialize.)  
TOX 508, 509, 560  
VS 395

##### From Outside the Major Department

- Choose either CHE 230/231/232  
or  
CHE 226/231 and BCH 401G ..... 8



**Professor Carol C. Baskin, Biology – recipient of the Research Professorship in recognition of outstanding research achievement.**

Choose either PHY 211/213

or  
PHY 231/232/241/242 ..... 10

**Other Major hours: ..... 34**

**Total Minimum Hours Required for Degree ..... 128**

\*Course used towards completion of a USP or College Requirement.

### Bachelor of Science with a major in BIOLOGY

#### 122 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

#### University Studies Program Requirements

- I. Math (completed by Premajor Requirement)
- II. Foreign Language (placement exam recommended) ..... 0-8
- III. Inference-Logic (completed by Premajor Requirement) ..... 3-6
- IV. Written Communication ..... 3
- V. Oral Communication ..... 3
- VI. Natural Sciences (completed by Premajor Requirements) ..... 6
- VII. Social Sciences ..... 6
- VIII. Humanities ..... 6
- IX. Cross-Cultural (choose a Humanities course) .... 3
- X. Electives (choose a Social Science course) ..... 3

**USP hours: ..... 24-35**

#### College Requirements

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by Premajor Requirements)

b. Social Science (completed by USP Elective Requirement)	
c. Humanities (completed by USP Cross-Cultural Requirement)	
III. Laboratory or Field Work (completed by Premajor Requirement)	
IV. Electives	6
<b>College Requirement hours:</b>	<b>6-14</b>

### Premajor Requirements

*MA 123 Elementary Calculus and its Applications	
<b>or</b>	
*MA 113 Calculus I	3-4
*CHE 105 General Chemistry I	3
*CHE 107 General Chemistry II	3
*CHE 115 General Chemistry Laboratory	3
*BIO 150 Principles of Biology I	3
BIO 151 Principles of Biology Laboratory I	2
BIO 152 Principles of Biology II	3
BIO 153 Principles of Biology Laboratory II	2
<b>Premajor hours:</b>	<b>22-23</b>

### Major Requirements

#### Major Core Requirements

BIO 304 Principles of Genetics	4
BIO 315 Introduction to Cell Biology	3
BIO 325 Introductory Ecology	4
^BIO 350 Animal Physiology	4
BIO 425 Biology Seminar <b>or</b>	
BIO 499 Biology Research Seminar	1
^Students with a strong interest in plants may substitute BIO 430G or BIO 476G for BIO 350 with the approval of faculty advisor.	

**Major Core hours:** 16

#### Other Course Work Required for the Major

##### From the Major Department:

To be chosen from 200+ level BIO courses (excluding BIO 208) or the list below. Two courses **must** contain a laboratory component. Six hours of Independent Research (395) from biological sciences departments may be counted here; however, only BIO 395 is accepted for honors in biology. Note that ANA 209, BIO 208, and PGY 206 **cannot** be used for this requirement

A&S 300, 500 (when offered by the School of Biological Sciences)

ABT 201, 395, 401, 460, 461, 495

ANA 395, 511, 512, 513, 529

ANT 332, 551

ASC 364, 378, 395, 580

BCH 395, 401G, 501, 502, 503, 517

BIO – all 200+ level courses except BIO 208

CHE 226, 233, 395, 440G, 441G, 442G, 446G, 532, 533, 550, 552, 553, 558

ENT 300, 310, 320, 395, 402, 460, 461, 561, 562, 564, 568

FOR 219, 221, 315, 340, 375, 402, 410, 564

FSC 530

GLY 401G

MI 494G, 595, 598

NRC 320, 395, 420G, 450G, 455G

PGY 412G, 502, 560, 590

PLS 220, 320, 330, 332, 366, 367, 444, 450G, 502, 564, 566, 567

PPA 395, 400G, 503

PSY 312, 456, 459, 552, 558, 565

STA 281, 291, 292, 503, 570 (Generally only **one** statistics course is accepted. Other STA courses may be accepted at the discretion of your advisor, and this may depend upon the area of biology in which you choose to specialize.)

TOX 508, 509, 560

VS 395

#### From Outside the Major Department

Choose either CHE 230/231/232	
<b>or</b>	
CHE 231/236 and BCH 401G	8
Choose either PHY 211/213	
<b>or</b>	
PHY 231/232/241/242	10
<b>Other Major hours:</b>	<b>34</b>

#### Total Minimum Hours

**Required for Degree** 122

\*Course used towards completion of a USP or College Requirement.

### Minor in Biological Sciences

A minimum of 21 semester hours is required for the minor in biological sciences, to be distributed as follows:

#### Premajor Requirements

BIO 150 Principles of Biology I	3
BIO 151 Principles of Biology Laboratory I	2
BIO 152 Principles of Biology II	3
BIO 153 Principles of Biology Laboratory II	2

#### Minor Requirements

Two courses from the following list:

BIO 304 Principles of Genetics	4
BIO 315 Introduction to Cell Biology	3
BIO 325 Introductory Ecology	4
*BIO 350 Animal Physiology	4
<b>or</b> BIO 430G Plant Physiology	3
<b>or</b> BIO 476G General Microbial Physiology	4

\*Biology minors with strong interests in plants may substitute BIO 430G or BIO 476G for BIO 350 with advisor's approval.

#### Minor Electives

Approved BIO or other courses at the 200 level or higher. Up to three hours of BIO 395, Research in Biology, may be counted here.

## CHEMISTRY

The Department of Chemistry offers a program leading to the Bachelor of Science degree for students who intend to become professional chemists or do graduate work in chemistry. A Bachelor of Arts degree program is available for students who want greater flexibility in the selection of courses in other fields of science in addition to basic education in chemistry. The B.A. program is designed particularly for students planning to enter the professional health fields, to teach in secondary schools, or to work in such varied areas as technical service, patent law, or ecology. The department also offers a Master of Science and the Ph.D.

### Bachelor of Arts with a major in CHEMISTRY

#### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. Please also note that the Organic Chemistry Sequence (CHE 230/

231/232/233) will count towards completion of this requirement. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

### University Studies Program Requirements

I. Math (completed by Premajor Requirement)	
II. Foreign Language^ (placement exam recommended)	0-8
III. Inference-Logic (completed by Premajor Requirement)	
IV. Written Communication	3-6
V. Oral Communication* (partially completed by Major Requirement)	1
VI. Natural Sciences (completed by Premajor Requirements)	
VII. Social Sciences	6
VIII. Humanities	6
IX. Cross-Cultural (choose a Humanities course)	3
X. Electives (choose two Social Science courses)	6
<b>USP hours:</b>	<b>25-36</b>

### College Requirements

I. Foreign Language (placement exam recommended)	0-6
II. Disciplinary Requirements	
a. Natural Science (completed by Major Requirements)	
b. Social Science (completed by USP Elective Requirement)	
c. Humanities (partially completed by USP Cross-Cultural Requirement)	3
III. Laboratory or Field Work (completed by Premajor Requirement)	
IV. Electives	6
<b>College Requirement hours:</b>	<b>9-15</b>

### Premajor Requirements

MA 113 Calculus I	
<b>or</b>	
MA 132 Calculus for the Life Sciences	3-4
MA 114 Calculus II	4
CHE 105 General College Chemistry I	3
CHE 107 General College Chemistry II	3
CHE 115 General College Chemistry Laboratory	3
<b>Premajor hours:</b>	<b>16-17</b>

### Major Requirements

#### Major Core Requirements

CHE 226 Analytical Chemistry	3
CHE 230 Organic Chemistry I	3
CHE 231 Organic Chemistry Laboratory I	2
CHE 232 Organic Chemistry II	3
CHE 233 Organic Chemistry Laboratory II	2
CHE 440G Introductory Physical Chemistry	4
CHE 441G Physical Chemistry Laboratory	2
CHE 572 Communication in Chemistry (two semesters)	2

**Major Core hours:** 21

#### Other Course Work Required for the Major

#### Chemistry Major Field Options

Choose 21 hours at the 300+ level with a prefix of ANA, BCH, BIO, CHE, CS, CME, GLY, MA, MI, MSE, PAT, PGY, PHA, PHR, PHY, PM, RM, or STA. At least 4 hours must be taken outside CHE. Up to 9 hours of CHE 395 are recommended for students having a minimum GPA of 3.0 in CHE courses. Other courses may be approved by the Undergraduate Program Committee. Students working towards teaching accreditation may count 6 hours taken at the 300+ level from the College of Education. A maximum of 9 hours in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix

**From the Physics Department**

PHY 211/213 General Physics

or

PHY 231/232 General University Physics and

PHY 241/242 General University Physics

Laboratory ..... 10

**Other Major hours: ..... 31****Total Minimum Hours****Required for Degree ..... 120**

^Any language may be used to satisfy the USP and College Foreign Language requirements – German is recommended.

\*COM 199 + two semesters of CHE 572 satisfy the USP Oral Communication Requirement.

**Curriculum for B.A. in Chemistry****Freshman Year**

First Semester	Hours
CHE 105 General College Chemistry I .....	3
ENG 101 Writing I .....	3
MA 113 Calculus I .....	4
University Studies (VIII) .....	3

**Second Semester**

CHE 107 General College Chemistry II .....	3
CHE 115 General Chemistry Laboratory .....	3
ENG 102 Writing II .....	3
MA 114 Calculus II .....	4
University Studies (VIII) .....	3

**Sophomore Year**

First Semester	Hours
CHE 230 Organic Chemistry I .....	3
CHE 231 Organic Chemistry Laboratory I .....	2
PHY 211 General Physics .....	5
University Studies (VII) .....	3
Humanities/Social Science .....	3

**Second Semester**

CHE 226 Analytical Chemistry .....	3
CHE 232 Organic Chemistry II .....	3
CHE 233 Organic Chemistry Laboratory II .....	2
PHY 213 General Physics .....	5
University Studies (VII) .....	3

**Junior Year**

First Semester	Hours
CHE 440G Introductory Physical Chemistry .....	4
Foreign Language I† .....	4
COM 199 Presentational Communication Skills†† ...	1
University Studies .....	3
Major Field Option* .....	3

**Second Semester**

CHE 441G Physical Chemistry Laboratory .....	2
CHE 572 Seminar†† .....	1
Foreign Language II† .....	4
University Studies (IV or V) .....	3
Major Field Option* .....	6

**Senior Year**

First Semester	Hours
Free Elective (A&S) .....	3
Foreign Language III† .....	3
Major Field Option* .....	6
University Studies (IV or V) .....	3

**Second Semester**

CHE 572 Seminar†† .....	1
Major Field Options* .....	6
Foreign Language IV† .....	3
Free Elective (A&S) .....	3

\*Major field options (21 credits) must be chosen from courses at the 300- to 500-level with the prefixes CHE, ANA, BCH, BIO, CS, CME, GLY, MA, MI, MSE, PAT, PGY, PHA, PHR, PHY, PM, RM or STA. Credit will not be given for both BCH 401G and CHE 550 or CHE 552. Other courses may be approved as Major Field Options

by the Undergraduate Program Committee. Students working towards teaching accreditation may count six credits in courses taken at or above the 300-level in the College of Education. Six credits of CHE 395 are recommended for students having a minimum 3.0 GPA in chemistry courses. Oral and written reports are required from CHE 395 students during their final semester of registration in CHE 395. A maximum of nine credits in undergraduate research or reading courses may be counted; such courses require approval of the Undergraduate Program Committee if the courses do not carry the CHE prefix.

†Any foreign language sequence satisfying the College of Arts and Sciences requirement in foreign languages may be taken. German is recommended.

††COM 199 and two credits of CHE 572 satisfy the University Studies requirement for Oral Communication.

**Bachelor of Science with a major in CHEMISTRY****121 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math (*completed by Premajor Requirement*)
- II. Foreign Language<sup>^</sup> (*placement exam recommended*) ..... 0-8
- III. Inference-Logic (*completed by Premajor Requirement*)
- IV. Written Communication ..... 3-6
- V. Oral Communication\* (*partially completed by Major Requirement*) ..... 1
- VI. Natural Sciences (*completed by Premajor Requirements*)
- VII. Social Sciences ..... 6
- VIII. Humanities ..... 6
- IX. Cross-Cultural (*choose a Humanities course*) .... 3
- X. Electives (*choose a Social Science course*) ..... 3

**USP hours: ..... 22-33****College Requirements**

- I. Foreign Language (*placement exam recommended*) ..... 0-6
- II. Disciplinary Requirements
  - a. Natural Science (*completed by Major Requirements*)
  - b. Social Science (*completed by USP Elective Requirement*)
  - c. Humanities (*completed by USP Cross-Cultural Requirement*)
- III. Laboratory or Field Work (*completed by Premajor Requirement*)
- IV. Electives ..... 6

**College Requirement hours: ..... 6-12****Premajor Requirements**

MA 113 Calculus I .....	4
MA 114 Calculus II .....	4
CHE 105 General College Chemistry I .....	3
CHE 107 General College Chemistry II .....	3
CHE 115 General College Chemistry Laboratory .....	3

**Premajor hours: ..... 17****Major Requirements****Major Core Requirements**

CHE 226 Analytical Chemistry .....	3
CHE 230 Organic Chemistry I .....	3
CHE 231 Organic Chemistry Laboratory I .....	2
CHE 232 Organic Chemistry II .....	3
CHE 441G Physical Chemistry Laboratory .....	2

CHE 442G Thermodynamics and Kinetics .....	3
CHE 450G Practical Inorganic Chemistry .....	4
CHE 522 Instrumental Analysis .....	4
CHE 532 Spectrometric Identification of Organic Compounds .....	2
CHE 533 Qualitative Organic Analysis Laboratory .....	2
CHE 547 Principles of Physical Chemistry I .....	3
CHE 550 Biological Chemistry I .....	3
CHE 572 Communication in Chemistry ( <i>two semesters</i> ) .....	2

**Major Core hours: ..... 35****Other Course Work Required for the Major****From the Major Department:**

Chemistry Major Field Options .....	6
Choose six hours from the following: up to six hours of CHE 395, any CHE 500-level course except for those required (CHE 522/532/533/550/572); BCH 401G or BCH 501; and BCH 502.	

**From the Mathematics Department**

MA 213 Calculus III .....	4
MA 322 Matrix Algebra and its Applications .....	3

**From the Physics Department**

PHY 231/232 General University Physics .....	8
PHY 241/242 General University Physics Laboratory .....	2

**Other Major hours: ..... 23****Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation.

**Total Minimum Hours****Required for Degree ..... 121**

^Any language may be used to satisfy the USP and College Foreign Language requirements – German is recommended.

\*COM 199 + two semesters of CHE 572 satisfy the USP Oral Communication Requirement.

**Curriculum for B.S. in Chemistry****Freshman Year**

First Semester	Hours
CHE 105 General College Chemistry I .....	3
ENG 101 Writing I .....	3
MA 113 Calculus I .....	4
University Studies (VII) .....	3
University Studies (VIII) .....	3

**Second Semester**

CHE 107 General College Chemistry II .....	3
CHE 115 General Chemistry Laboratory .....	3
ENG 102 Writing II .....	3
MA 114 Calculus II .....	4
University Studies (VIII) .....	3

**Sophomore Year**

First Semester	Hours
CHE 226 Analytical Chemistry .....	3
CHE 230 Organic Chemistry I .....	3
MA 213 Calculus III .....	4
PHY 231 General University Physics .....	4
PHY 241 General University Physics Laboratory .....	1

**Second Semester**

CHE 231 Organic Chemistry Laboratory I .....	2
CHE 232 Organic Chemistry II .....	3
MA 322 Matrix Algebra and Its Applications .....	3
PHY 232 General University Physics .....	4
PHY 242 General University Physics Laboratory ....	1
University Studies (IX) .....	3

**Junior Year**

<b>First Semester</b>	<b>Hours</b>
CHE 547 Principles of Physical Chemistry I .....	3
CHE 532 Spectrometric Identification of Organic Compounds .....	2
COM 199 Presentational Communication Skills** ....	1
Foreign Language I* .....	4
University Studies (VII) .....	3
University Studies (X) .....	3

**Second Semester**

CHE 441G Physical Chemistry Laboratory .....	2
CHE 442G Thermodynamics and Kinetics .....	3
CHE 533 Qualitative Organic Analysis Laboratory .....	2
CHE 572 Seminar** .....	1
Foreign Language II* .....	4
Major Field Option .....	3

**Senior Year**

<b>First Semester</b>	<b>Hours</b>
CHE 450G Practical Inorganic Chemistry .....	4
CHE 522 Instrumental Analysis .....	4
CHE 550 Biological Chemistry I .....	3
Foreign Language III* .....	3

**Second Semester**

CHE 572 Seminar** .....	1
Foreign Language IV* .....	3
Major Field Option .....	3
Free Electives .....	6

\*Any foreign language sequence satisfying the College of Arts and Sciences requirement in foreign languages may be taken. German is recommended.

\*\*COM 199 and two credits of CHE 572 satisfy the University Studies requirement for Oral Communication.

**Certification Requirements**

The B.S. degree is certified by the American Chemical Society.

**Minor in Chemistry**

	<b>Hours</b>
MA 113 Calculus I <b>or</b> .....	4
MA 132 Calculus for the Life Sciences .....	3
MA 114 Calculus II .....	4
PHY 211/213 General Physics <b>or</b> .....	10
PHY 231/241 General University Physics and Laboratory <b>and</b> .....	5
PHY 232/242 General University Physics and Laboratory .....	5
CHE 105/107 General College Chemistry I and II .....	6
CHE 115 General Chemistry Laboratory .....	3
CHE 226 Analytical Chemistry .....	3
CHE 230/231 Organic Chemistry I and Laboratory I .....	5
CHE 232/233 Organic Chemistry II and Laboratory II .....	5
CHE 440G Introductory Physical Chemistry <b>or</b> .....	4
CHE 446G Physical Chemistry for Engineers .....	3

**B.A. or B.S. with a major in CLASSICS**

The requirements for the B.A. and B.S. with a major in Classics are listed in this A&S section under *Modern and Classical Languages, Literatures and Cultures*.

**ECONOMICS**

The Department of Economics offers theoretical and applied courses in diverse areas including microeconomics, macroeconomics, labor, money and banking, international eco-

nomics, public economics, and industrial organization. It provides an opportunity for the student to pursue his or her interests within the framework of a liberal arts education.

The department offers programs leading to different undergraduate degrees—a Bachelor of Science in the Gatton College of Business and Economics, a Bachelor of Arts and a Bachelor of Science with a major in economics in the College of Arts and Sciences, a Bachelor of Arts and a Bachelor of Science with a major in foreign language and international economics, and a Bachelor of Arts and a Bachelor of Science with a major in mathematical economics. The distinctions among these degrees lie primarily in the required supporting courses in the various programs. (Foreign language and international economics majors and mathematical economics majors should refer directly to that section of the Bulletin.)

**Bachelor of Arts with a major in ECONOMICS****120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ( <i>completed by Premajor Requirements</i> )	
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference-Logic ( <i>completed by Premajor Requirements</i> )	
IV. Written Communication .....	3-6
V. Oral Communication* .....	1
VI. Natural Sciences .....	6
VII. Social Sciences ( <i>partially completed by Premajor Requirements</i> ) .....	3
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Humanities course</i> ) .....	3
X. Electives ( <i>choose six hours of Natural Sciences</i> )	6
<b>USP hours:</b> .....	<b>30-41</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> )	
b. Social Science ( <i>completed by Premajor and Major Requirements</i> )	
c. Humanities ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>10-18</b>

**Premajor Requirements**

^MA 113 Calculus I	
<b>or</b>	
MA 123 Elementary Calculus and its Applications	
<b>and</b>	

MA 162 Finite Mathematics and its Applications .....	4-6
^ECO 201 Principles of Economics I .....	3
ECO 202 Principles of Economics II .....	3
STA 291 Statistical Method .....	3

**Premajor hours:** ..... **13-15**

**Major Requirements****Major Core Requirements**

ECO 391 Economic and Business Statistics .....	3
ECO 401 Intermediate Microeconomic Theory .....	3
ECO 402 Intermediate Macroeconomic Theory .....	3
*ECO 499 Seminar in Economics .....	3

**Major Core hours:** ..... **12**

**Other Course Work Required for the Major****From the Major Department:**

Choose 9-15 hours of 300+ level economics courses .....	9-15
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**From Outside the Major Department**

Choose 15-21 hours outside Economics at the 200+ level, with at least six hours in two different departments. These courses are generally chosen from the following departments: Anthropology, Computer Science, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Statistics, or courses offered by the College of Business and Economics. 200+ level courses used to satisfy USP and College Requirements can also be counted here .....

**Other Major hours:** ..... **30**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** ..... **120**

^Course used towards completion of a USP or College Requirement.

\*COM 199 + ECO 499 complete the USP Oral Communication Requirement.

**Bachelor of Science with a major in ECONOMICS****120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a prefix of ECO are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this 60-hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ( <i>completed by Premajor Requirements</i> )	
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference-Logic ( <i>completed by Premajor Requirements</i> )	
IV. Written Communication .....	3-6
V. Oral Communication* .....	1
VI. Natural Sciences .....	6
VII. Social Sciences ( <i>partially completed by Premajor Requirements</i> ) .....	3
VIII. Humanities .....	6

IX. Cross-Cultural (*choose a Humanities course*) .... 3  
 X. Electives (*choose six hours of Natural Sciences*) 6  
**USP hours:** ..... 30-41

**College Requirements**

I. Foreign Language (*placement exam recommended*) ..... 0-8  
 II. Disciplinary Requirements  
     a. Natural Science (*completed by USP Elective Requirement*)  
     b. Social Science (*completed by Premajor Requirement*)  
     c. Humanities (*completed by USP Cross-Cultural Requirement*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7-15

**Premajor Requirements**

<sup>^</sup>MA 113 Calculus I  
 or  
 MA 123 Elementary Calculus and its Applications and  
 MA 162 Finite Mathematics and its Applications .. 4-6  
<sup>^</sup>ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 STA 291 Statistical Method ..... 3  
**Premajor hours:** ..... 13-15

**Major Requirements**

**Major Core Requirements**  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 \*ECO 499 Seminar in Economics ..... 3  
**Major Core hours:** ..... 12

**Other Course Work Required for the Major**

**From the Major Department:**  
 Choose 9-15 hours of 300+ level Economics  
 courses ..... 9-15

**From Outside the Major Department**

Choose 15-21 hours outside Economics at the 200+ level, with at least six hours in two different departments. These courses are generally chosen from the following departments: Anthropology, Computer Science, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Statistics, or courses offered by the College of Business and Economics. 200+ level courses used to satisfy USP and College Requirements can also be counted here ..... 15-21

**Other Major hours:** ..... 30

**Electives**

Choose electives to lead to the minimum total of 60 science hours and 120 earned hours required for graduation .... 7

**Total Minimum Hours  
 Required for Degree** ..... 120

<sup>^</sup>Course used towards completion of a USP or College Requirement.

\*COM 199 + ECO 499 complete the USP Oral Communication Requirement.

**Minor in Economics**

**Hours**

The minor consists of eighteen hours to include:  
 ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 401 Intermediate Microeconomic Theory **or**  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 Three additional economics courses at the 300-level  
 or above ..... 9

**ENGLISH**

The Department of English offers a wide variety of courses in English and American literature as well as in comparative literature, linguistics, folklore, film, creative writing, and composition. Undergraduate majors may also choose a curriculum that leads to a teaching certificate.

Both majors and nonmajors will find many courses that offer opportunities to deepen their acquaintance with their own culture and its heritage, to enlarge their understanding of the human condition, and to develop their capacity to use and appreciate their own language.

**Bachelor of Arts with a major in ENGLISH**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*placement exam recommended*) ..... 0-8  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication (*3 hours completed by Premajor Requirements*) ..... 3-7  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities (*completed by Premajor Requirements*) ..... 0-6  
 IX. Cross-Cultural (*ENG 264 or a 300+ level Social Science course recommended for efficiency*) ..... 3  
 X. Electives (*two Natural Science courses recommended for efficiency*) ..... 6  
**USP hours:** ..... 30-54

**College Requirements**

I. Foreign Language (*placement exam recommended*) ..... 0-8  
 II. Disciplinary Requirements  
     a. Natural Science (*may be completed by USP Elective Requirement*) ..... 0-6  
     b. Social Science (*may be partially completed by USP Cross-Cultural Requirement*) ..... 3-6  
     c. Humanities (*completed by Major Requirements*) ..... 0-6  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 10-33

**Premajor Requirements**

\*ENG 230 Introduction to Literature ..... 3

**plus** one of the following

\*ENG 231 Literature and Genre  
 \*ENG 232 Literature and Place  
 \*ENG 233 Literature and Identities  
 \*ENG 234 Introduction to Women’s Literature  
 ENG 264 Major Black Writers

ENG 281 Introduction to Film ..... 3  
**Premajor hours:** ..... 6

**Major Requirements**

**Major Core Requirements**

ENG 330 Text and Context ..... 3  
 ENG 395 Independent Work (Capstone) ..... 1  
**Major Core hours:** ..... 4

**Other Course Work Required for the Major**

**From the Major Department:**

**Language Module** ..... 3  
 Choose one of the following: ENG/LIN 210, 211, 310

**Literature Module** ..... 12

Complete two of the following British literature courses: ENG 331, 332, 333; and two of the following American literature courses: ENG 334, 335, 336. At least three of these must be chosen from the survey courses (ENG 331, 332, 334, 335).

**Area Module** ..... 12

Complete four additional courses – at least two of which must be from the same area module. Note that some of the listed courses may be repeated under different subtitles.

**Literature:** ENG 481G, 482G, 483G, 484G, 485G, 570, 572

**Imaginative Writing:** ENG 207, 407, 507

**Writing:** ENG 301, 306, 401, 405, 509

**Film and Media:** ENG 283, 381, 382, 480G

**Language Study:** ENG/LIN 310, LIN/ANT 319, ENG/LIN 512, ENG/LIN/EDC 513, ENG/LIN/EDC 514, ENG/LIN/ANT 515, ENG/LIN/ANT 516, ENG 519

**Theory:** ENG 486G, 487G, 488G

**English Education Emphasis:** ENG 264 or 483G, 509, 572, and one additional writing module course

**From Outside the Major Department**

15 additional hours at the 200+ level outside English are required (courses 300+ recommended; note that 200+ - level courses used to satisfy USP and College Requirements may also be counted here.) ..... 15

**Other Major hours:** ..... 42

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 3

**Total Minimum Hours  
 Required for Degree** ..... 120

\*Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in ENGLISH**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ENG prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*placement exam recommended*) ..... 0-8  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication (*3 hours completed by Premajor Requirements*) ..... 3-7  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities (*completed by Premajor Requirements*) ..... 0-6  
 IX. Cross-Cultural (*ENG 264 or a 300+ level Social Science course recommended for efficiency*) ..... 3  
 X. Electives (*two Natural Science courses recommended for efficiency*) ..... 6  
**USP hours:** ..... 30-54

**College Requirements**

I. Foreign Language (*placement exam recommended*) ..... 0-8  
 II. Disciplinary Requirements  
 a. Natural Science (*may be completed by USP Elective Requirement*) ..... 0-6  
 b. Social Science (*may be partially completed by USP Cross-Cultural Requirement*) ..... 3-6  
 c. Humanities (*completed by Major Requirements*) ..... 0-6  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 10-33

**Premajor Requirements**

\*ENG 230 Introduction to Literature ..... 3  
**plus** one of the following:  
 \*ENG 231 Literature and Genre  
 \*ENG 232 Literature and Place  
 \*ENG 233 Literature and Identities  
 \*ENG 234 Introduction to Women’s Literature  
 ENG 264 Major Black Writers  
 ENG 281 Introduction to Film ..... 3  
**Premajor hours:** ..... 6

**Major Requirements**

**Major Core Requirements**  
 ENG 330 Text and Context ..... 3  
 ENG 395 Independent Work (Capstone) ..... 1  
**Major Core hours:** ..... 4

**Other Course Work Required for the Major From the Major Department:**

**Language Module** ..... 3  
 Choose one of the following: ENG/LIN 210, 211, 310

**Literature Module** ..... 12  
 Complete two of the following British literature courses: ENG 331, 332, 333; and two of the following American literature courses: ENG 334, 335, 336. At least three of these must be chosen from the survey courses (ENG 331, 332, 334, 335).

**Area Module** ..... 12  
 Complete four additional courses – at least two of which must be from the same area module. Note that some of the listed courses may be repeated under different subtitles.

**Literature:** ENG 481G, 482G, 483G, 484G, 485G, 570, 572

**Imaginative Writing:** ENG 207, 407, 507

**Writing:** ENG 301, 306, 401, 405, 509

**Film and Media:** ENG 283, 381, 382, 480G

**Language Study:** ENG/LIN 310, LIN/ANT 319, ENG/LIN 512, ENG/LIN/EDC 513, ENG/LIN/EDC 514, ENG/LIN/ANT 515, ENG/LIN/ANT 516, ENG 519

**Theory:** ENG 486G, 487G, 488G

**English Education Emphasis:** ENG 264 or 483G, 509, 572, and one additional writing module course

**From Outside the Major Department**

15 additional hours at the 200+ level outside English are required (courses 300+ recommended; note that 200+ - level courses used to satisfy USP and College Requirements may also be counted here.) ..... 15

**Other Major hours:** ..... 42

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 6

**Total Minimum Hours Required for Degree** ..... 120

\*Course used towards completion of a USP Requirement.

**Minor in English**

The minor consists of a total of 18 hours, of which at least 12 hours must be at or above the 300 level. The hours are to be distributed as follows:

1. Two of the following courses (six hours):  
 ENG 331 Survey of British Literature I  
 ENG 332 Survey of British Literature II  
 ENG 334 Survey of American Literature I  
 ENG 335 Survey of American Literature II
2. One course in Shakespeare (three hours)
3. Three more courses (nine hours) selected from the department’s offerings (excluding all 100-level courses and ENG 203, 204, 205, 261, 262).

**FOREIGN LANGUAGES AND INTERNATIONAL ECONOMICS**

The University of Kentucky offers a joint major that combines foreign language proficiency with training in economics to prepare students for employment in enterprises doing business internationally. The program prepares students to succeed after graduation by combining high-quality classroom instruction with practical in-country learning opportunities. The program provides preparation for participation in internships and exchange programs and builds foundation for a future career in international business, or degrees in international law, an MBA in international business, or the Patterson School of International Diplomacy.

For further information and advising, contact the undergraduate advisor in the Department of Economics or in one of the language programs: Department of Hispanic Studies, 1115 Patterson Office Tower; or the Department of Modern and Classical Languages, Literatures and Cultures, 1015 Patterson Office Tower (Classics, French and Italian); 1055 Patterson Office Tower (German Studies and Russian and Eastern Studies); 1439 Patterson Office Tower or 971 Patterson Office Tower (Japan Studies). The University’s address is:

**University of Kentucky  
 Lexington, KY 40506-0027**

**Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: FRENCH**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Major Requirements*) .....  
 III. Inference–Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (*can be partially completed by Major Requirements*) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (*partially completed by Major Requirement*) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*choose a 300+ level Humanities course*) ..... 3  
 X. Electives (*choose two Natural Science courses*) .. 6  
**USP hours:** ..... 31-38

**College Requirements**

I. Foreign Language (*completed by Major Requirements*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*completed by Major Requirements*)  
 c. Humanities (*completed by USP Cross-Cultural and Major Requirements*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7

**Major Requirements**

**French Core Requirements**  
 ^FR 203 Elementary French Conversation and Composition ..... 3  
 FR 306 Intermediate French Composition ..... 3  
 FR 307 French for Business and Economics ..... 3  
**French Core hours:** ..... 9

**Economics Core Requirements**  
 STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... 24

**Other Course Work Required for the Major**

**For the French Component:**  
 Choose at least 14 hours of French courses ..... 14

**For the Economics Component:**

Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 17**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 25

**Total Minimum Hours  
Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

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**Bachelor of Science with a  
major in FOREIGN LANGUAGE  
AND INTERNATIONAL  
ECONOMICS: FRENCH**

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**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with FR or ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3

II. Foreign Language (*completed by Major Requirement*)III. Inference-Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4

IV. Written Communication ..... 3-6

V. Oral Communication\* (*can be partially completed by Major Requirements*) ..... 1

VI. Natural Sciences ..... 6

VII. Social Sciences (*partially completed by Major Requirement*) ..... 3

VIII. Humanities ..... 6

IX. Cross-Cultural (*choose a Humanities course*) ..... 3X. Electives (*choose two Natural Science courses*) .. 6**USP hours:** ..... 31-38**College Requirements**I. Foreign Language (*completed by Major Requirements*)

II. Disciplinary Requirements

a. Natural Science (*completed by USP Elective Requirement*)b. Social Science (*completed by Major Requirement*)c. Humanities (*completed by USP Cross-Cultural and Major Requirements*)

III. Laboratory or Field Work ..... 1

IV. Electives ..... 6

**College Requirement hours:** ..... 7**Major Requirements****French Core Requirements**

^FR 203 Elementary French Conversation and

Composition ..... 3

FR 306 Intermediate French Composition ..... 3

FR 307 French for Business and Economics ..... 3

**French Core hours:** ..... 9**Economics Core Requirements**

STA 291 Statistical Method ..... 3

^ECO 201 Principles of Economics I ..... 3

ECO 202 Principles of Economics II ..... 3

ECO 391 Economic and Business Statistics ..... 3

ECO 401 Intermediate Microeconomic Theory ..... 3

ECO 402 Intermediate Macroeconomic Theory ..... 3

ECO 471 International Economics ..... 3

ECO 465G Comparative Economic Systems

or

ECO 473G Economic Development ..... 3

**Economics Core hours:** ..... 24**Other Course Work Required for the Major****For the French Component:**

Choose at least 14 hours of French courses ..... 14

**For the Economics Component:**

Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 17**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 25

**Total Minimum Hours  
Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

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**Bachelor of Arts with a major in  
FOREIGN LANGUAGE AND  
INTERNATIONAL ECONOMICS:  
GERMAN**

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**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3

II. Foreign Language (*completed by Major Requirements*)III. Inference-Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4

IV. Written Communication ..... 3-6

V. Oral Communication\* (*completed by Major Requirements*)

VI. Natural Sciences ..... 6

VII. Social Sciences (*partially completed by Major Requirement*) ..... 3

VIII. Humanities ..... 6

IX. Cross-Cultural (*choose a 300+ level Humanities course*) ..... 3X. Electives (*choose two Natural Science courses*) .. 6**USP hours:** ..... 30-37**College Requirements**I. Foreign Language (*completed by Major Requirements*)

II. Disciplinary Requirements

a. Natural Science (*completed by USP Elective Requirement*)b. Social Science (*completed by Major Requirements*)c. Humanities (*completed by USP Cross-Cultural and Major Requirements*)

III. Laboratory or Field Work ..... 1

IV. Electives ..... 6

**College Requirement hours:** ..... 7**Major Requirements****German Core Requirements**

^GER 205 Reading and Writing Practice ..... 2

\*GER 206 Oral Practice ..... 2

\*GER 307 Intermediate German Composition and Conversation I ..... 3

GER 310 German for International Business and Professions ..... 3

**German Core hours:** ..... 10**Economics Core Requirements**

STA 291 Statistical Method ..... 3

^ECO 201 Principles of Economics I ..... 3

ECO 202 Principles of Economics II ..... 3

ECO 391 Economic and Business Statistics ..... 3

ECO 401 Intermediate Microeconomic Theory ..... 3

ECO 402 Intermediate Macroeconomic Theory ..... 3

ECO 471 International Economics ..... 3

ECO 465G Comparative Economic Systems

or

ECO 473G Economic Development ..... 3

**Economics Core hours:** ..... 24**Other Course Work Required for the Major****For the German Component:**

Choose at least 12 hours of German courses ..... 12

**For the Economics Component:**

Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 15**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 27

**Total Minimum Hours  
Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

\*GER 206 + GER 307 satisfy the USP Oral Communication Requirement.

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**Bachelor of Science with a  
major in FOREIGN LANGUAGE  
AND INTERNATIONAL  
ECONOMICS: GERMAN**

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**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with GER and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3

II. Foreign Language (*completed by Major Requirement*)III. Inference-Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4

IV. Written Communication ..... 3-6

V. Oral Communication\* (*completed by Major Requirements*)

VI. Natural Sciences ..... 6

VII. Social Sciences (*partially completed by Major Requirement*) ..... 3

VIII. Humanities ..... 6  
 IX. Cross-Cultural (*choose a Humanities course*) ... 3  
 X. Electives (*choose two Natural Science courses*) .. 6  
**USP hours:** ..... 30-37

**College Requirements**

I. Foreign Language (*completed by Major Requirement*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*completed by Major Requirement*)  
 c. Humanities (*completed by USP Cross-Cultural and Major Requirements*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7

**Major Requirements**

**German Core Requirements**

^GER 205 Reading and Writing Practice ..... 2  
 \*GER 206 Oral Practice ..... 2  
 \*GER 307 Intermediate German Composition and Conversation I ..... 3  
 GER 310 German for International Business and Professions ..... 3  
**German Core hours:** ..... 10

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems  
 or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... 24

**Other Course Work Required for the Major**

**For the German Component:**  
 Choose at least 12 hours of German courses ..... 12

**For the Economics Component:**  
 Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 15

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 27

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.  
 \*GER 206 + GER 307 satisfy the USP Oral Communication Requirement.

**Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: JAPANESE**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete

description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Major Requirements*)  
 III. Inference–Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (*can be partially completed by Major Requirement*) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (*partially completed by Major Requirement*) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*completed by Major Requirement*)  
 X. Electives (*choose two Natural Science courses*) .. 6  
**USP hours:** ..... 28-35

**College Requirements**

I. Foreign Language (*completed by Major Requirements*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*completed by Major Requirements*)  
 c. Humanities (*completed by Major Requirements*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7

**Major Requirements**

**Japanese Core Requirements**

^JPN 202 Intermediate Japanese II ..... 3  
 ^JPN 321 Introduction to Japanese Culture, Meiji (1868) to Present ..... 3  
 JPN 334 Environment, Society and Economics of Japan ..... 3  
**Japanese Core hours:** ..... 9

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems  
 or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... 24

**Other Course Work Required for the Major**

**For the Japanese Component:**  
 ^Choose at least 12 hours from the following: ANT 326, COM 525, GEO 333, HIS 295, HIS 296, HIS 597, JPN 283, JPN 320, JPN 395, JPN 405, PS 419G ..... 12

**For the Economics Component**  
 \*Choose a 3 hour Economics course ..... 3  
**Other Major hours:** ..... 15

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 30

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

\*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

**Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: JAPANESE**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please Note: courses with JPN and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Major Requirement*)  
 III. Inference–Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (*can be partially completed by Major Requirement*) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (*partially completed by Major Requirement*) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*completed by Major Requirement*)  
 X. Electives (*choose two Natural Science courses*) .. 6  
**USP hours:** ..... 28-35

**College Requirements**

I. Foreign Language (*completed by Major Requirements*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*completed by Major Requirement*)  
 c. Humanities (*completed by Major Requirement*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7

**Major Requirements**

**Japanese Core Requirements**

^JPN 202 Intermediate Japanese II ..... 3  
 ^JPN 321 Introduction to Japanese Culture, Meiji (1868) to Present ..... 3  
 JPN 334 Environment, Society and Economics of Japan ..... 3  
**Japanese Core hours:** ..... 9

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems  
 or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... 24

**Other Course Work Required for the Major****For the Japanese Component:**

Choose at least 12 hours from the following: ANT 326, COM 525, GEO 333, HIS 295, HIS 296, HIS 597, JPN 283, JPN 320, JPN 395, JPN 405, PS 419G ..... 12

**For the Economics Component**

\*Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 15

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 30

**Total Minimum Hours  
Required for Degree** ..... 120

<sup>^</sup>Course used towards completion of a USP Requirement.

\*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

## Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: RUSSIAN

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

- I. Math ..... 0-3  
 II. Foreign Language (*completed by Major Requirement*) .....  
 III. Inference-Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (*can be partially completed by Major Requirement*) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (*partially completed by Major Requirements*) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*completed by Major Requirement*) .....  
 X. Electives (*choose two Natural Science courses*) ..... 6

**USP hours:** ..... 28-35

**College Requirements**

- I. Foreign Language (*completed by Major Requirement*) .....  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*) .....  
 b. Social Science (*completed by Major Requirements*) .....  
 c. Humanities (*completed by Major Requirements*) .....  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6

**College Requirement hours:** ..... 7

**Major Requirements****Russian Core Requirements**

<sup>^</sup>RAE 280 Introduction to Modern Russian Culture . 3

<sup>^</sup>RAE 303/304 Russian Pronunciation and Conversation ..... 6

RAE 380 Survey of 19th Century Russian Literature

or  
 RAE 390 Modern Russian Literature ..... 3

**Russian Core hours:** ..... 12

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
<sup>^</sup>ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3

ECO 465G Comparative Economic Systems

or  
 ECO 473G Economic Development ..... 3

**Economics Core hours:** ..... 24

**Other Course Work Required for the Major****For the Russian Component:**

\*Choose at least nine hours from the following: HIS 385, HIS 386, HIS 534, HIS 535, HIS 538, PS 429G, PS 539, RAE 401, RAE 410, RAE 411, RAE 430G ..... 9

**For the Economics Component**

\*Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 12

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 30

**Total Minimum Hours  
Required for Degree** ..... 120

<sup>^</sup>Course used towards completion of a USP Requirement.

\*COM 199 + either ECO 499 or RAE 401 satisfy the USP Oral Communication Requirement.

## Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: RUSSIAN

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with RAE, ECO, and HIS prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math ..... 0-3  
 II. Foreign Language (*completed by Major Requirement*) .....  
 III. Inference-Logic (*choose MA 123 or 113 as a prerequisite to STA 291*) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (*can be partially completed by Major Requirement*) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (*partially completed by Major Requirement*) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*completed by Major Requirements*)

X. Electives (*choose two Natural Science courses*) .. 6

**USP hours:** ..... 28-35

**College Requirements**

- I. Foreign Language (*completed by Major Requirement*) .....  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*) .....  
 b. Social Science (*completed by Major Requirement*) .....  
 c. Humanities (*completed by Major Requirement*) .....  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6

**College Requirement hours:** ..... 7

**Major Requirements****Russian Core Requirements**

<sup>^</sup>RAE 280 Introduction to Modern Russian Culture . 3

<sup>^</sup>RAE 303/304 Russian Pronunciation and Conversation ..... 6

RAE 380 Survey of 19th Century Russian Literature

or  
 RAE 390 Modern Russian Literature ..... 3

**Russian Core hours:** ..... 12

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
<sup>^</sup>ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3

ECO 465G Comparative Economic Systems

or  
 ECO 473G Economic Development ..... 3

**Economics Core hours:** ..... 24

**Other Course Work Required for the Major****For the Russian Component:**

\*Choose at least nine hours from the following: HIS 385, HIS 386, HIS 534, HIS 535, HIS 538, PS 429G, PS 539, RAE 401, RAE 410, RAE 411, RAE 430G ..... 9

**For the Economics Component**

\*Choose a 3 hour Economics course ..... 3

**Other Major hours:** ..... 12

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 30

**Total Minimum Hours  
Required for Degree** ..... 120

<sup>^</sup>Course used towards completion of a USP Requirement.

\*COM 199 + either ECO 499 or RAE 401 satisfy the USP Oral Communication Requirement.

## Bachelor of Arts with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: SPANISH

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (completed by Major Requirement) .....  
 III. Inference-Logic (choose MA 123 or 113 as a prerequisite to STA 291) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (can be partially completed by Major Requirement) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (partially completed by Major Requirement) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (completed by Major Requirement) .....  
 X. Electives (choose two Natural Science courses) .. 6  
**USP hours:** ..... **28-35**

**College Requirements**

I. Foreign Language (completed by Major Requirement)  
 II. Disciplinary Requirements  
 a. Natural Science (completed by USP Elective Requirement)  
 b. Social Science (completed by Major Requirements)  
 c. Humanities (completed by Major Requirements)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... **7**

**Major Requirements**

**Spanish Core Requirements**

^SPA 210 Spanish Grammar and Syntax ..... 3  
 SPA 211 Intermediate Spanish Conversation ..... 3  
 SPA 302 Commercial and Technical Spanish ..... 3  
**Spanish Core hours:** ..... **9**

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems  
 or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... **24**

**Other Course Work Required for the Major**

**For the Spanish Component:**  
 ^Choose at least 13 hours of SPA courses ..... 13  
**For the Economics Component**  
 \*Choose a 3 hour Economics course ..... 3  
**Other Major hours:** ..... **15**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 29

**Total Minimum Hours Required for Degree ..... 120**

^Course used towards completion of a USP Requirement.  
 \*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

**Bachelor of Science with a major in FOREIGN LANGUAGE AND INTERNATIONAL ECONOMICS: SPANISH**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with SPA and ECO prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (completed by Major Requirement)  
 III. Inference-Logic (choose MA 123 or 113 as a prerequisite to STA 291) ..... 3-4  
 IV. Written Communication ..... 3-6  
 V. Oral Communication\* (can be partially completed by Major Requirement) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences (partially completed by Major Requirement) ..... 3  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (completed by Major Requirement) .....  
 X. Electives (choose two Natural Science courses) .. 6  
**USP hours:** ..... **28-35**

**College Requirements**

I. Foreign Language (completed by Major Requirements)  
 II. Disciplinary Requirements  
 a. Natural Science (completed by USP Elective Requirement)  
 b. Social Science (completed by Major Requirement)  
 c. Humanities (completed by Major Requirement)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... **7**

**Major Requirements**

**Spanish Core Requirements**  
 ^SPA 210 Spanish Grammar and Syntax ..... 3  
 SPA 211 Intermediate Spanish Conversation ..... 3  
 SPA 302 Commercial and Technical Spanish ..... 3  
**Spanish Core hours:** ..... **9**

**Economics Core Requirements**

STA 291 Statistical Method ..... 3  
 ^ECO 201 Principles of Economics I ..... 3  
 ECO 202 Principles of Economics II ..... 3  
 ECO 391 Economic and Business Statistics ..... 3  
 ECO 401 Intermediate Microeconomic Theory ..... 3  
 ECO 402 Intermediate Macroeconomic Theory ..... 3  
 ECO 471 International Economics ..... 3  
 ECO 465G Comparative Economic Systems  
 or  
 ECO 473G Economic Development ..... 3  
**Economics Core hours:** ..... **24**

**Other Course Work Required for the Major**

**For the Spanish Component:**  
 Choose at least 13 hours of SPA courses ..... 13

**For the Economics Component**

\*Choose a 3 hour Economics course ..... 3  
**Other Major hours:** ..... **15**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 29

**Total Minimum Hours Required for Degree ..... 120**

^Course used towards completion of a USP Requirement.  
 \*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

**B.A. or B.S. with a major in FRENCH**

The requirements for the B.A. and B.S. with a major in French are listed in this A&S section under *Modern and Classical Languages, Literatures and Cultures*.

**GEOGRAPHY**

Geography analyzes and explains the location of and interrelationships between human and physical features of the earth's environment. Geographers also examine how and why features and their locations change over time, with particular interest in the many impacts of these changes on both people and natural settings. Geography is, therefore, both a social and a physical science. Because its fundamental subject matter is people and their environments, the discipline serves as an effective bridge between the physical and cultural worlds.

Majors in geography build solid academic foundations that draw from and interrelate areas of study from the social and behavioral sciences, humanities, computer science and graphic communication, and the natural sciences. With developed analytical, critical thinking, and communication skills, geography is particularly useful for students wishing to enter such careers as economic development, environmental management, international trade, transportation analysis and planning, diplomacy, government administration from local to federal levels, market analysis, urban and regional planning, research, teaching, cartography, Geographic Information Systems (GIS), and private business.

The Department of Geography has developed detailed major concentration tracks in three areas: earth environmental systems (physical geography), human geography, and geographic information techniques. For more information, contact the Department of Geography at (859) 257-2931, or on the Web at [www.uky.edu/AS/Geography/](http://www.uky.edu/AS/Geography/).

**Bachelor of Arts with a major in GEOGRAPHY**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are

generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VII. Social Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>can be completed by Premajor Requirement</i> ) .....	6
X. Electives ( <i>choose 300+ level Humanities courses</i> ) .....	6
<b>USP hours:</b> .....	<b>27-44</b>

### College Requirements

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science .....	6
b. Social Science ( <i>completed by Major Requirements</i> ) .....	
c. Humanities ( <i>completed by USP Elective Requirement</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>13-21</b>

### Premajor Requirements

^GEO 130 Earth's Physical Environment .....	3
^GEO 152 Regional Geography of the World <b>or</b>	
^GEO 160 Lands and Peoples of the Non-Western World .....	3
^GEO 172 Human Geography .....	3
<b>Premajor hours:</b> .....	<b>9</b>
^Course may be used towards fulfilling the University Studies Program requirements.	

### Major Requirements

#### Major Core Requirements

GEO 300 Geographic Research .....	3
GEO 305 Elements of Cartography .....	3
GEO 310 Quantitative Techniques in Geography .....	3
<b>Major Core hours:</b> .....	<b>9</b>

#### Other Course Work Required for the Major

##### From the Major Department:

<b>Breadth Requirements</b> .....	6
Choose one regional geography course and one thematic geography course at the 300+ level.	

**Geography Concentration Tracks** ..... 12  
Choose at least 12 hours of geography courses to include no more than six hours of GEO 560 (Independent Work in Geography) and GEO 480 (Internship in Geography) from one of the following tracks:

#### Track 1: Earth Environmental Systems (Physical Geography)

This concentration emphasizes the earth's physical environment, including soils and landscapes; fluvial and other hydrologic systems; weather and climate; and vegetation and animal life. Emphasis is on (a) the pattern of spatial variation these regimes exhibit; (b) the physical processes that underpin their historical and spatial develop-

ment; and (c) the interactions between these regimes and human activity. Topical areas reflecting physical-human interactions include identification and analysis of pollution, mitigation of natural hazards, and the outcomes of environmental management strategies.

#### The Department strongly recommends that students in the Earth Environmental Systems Concentration pursue a Bachelor of Science degree.

^*GEO 210 Pollution, Hazards and Environmental Management .....	3
GEO 251 Weather and Climate .....	3
GEO 351 Physical Landscapes .....	3
*GEO 441G Fluvial Forms and Processes .....	3
^Course may be used towards fulfilling the University Studies Program requirements.	
*Or other Physical Geography, GIS, Remote Sensing, Computer Cartography courses.	

#### Track 2: Human Geography (HG)

Human Geography focuses on the identification, description, and analysis of: (a) human spatial behavior and cognition; (b) social, economic, and political processes as they are manifest locally and globally; and (c) the cultural impress of human activity on the landscape. Within these areas, students can focus on the socio-psychological aspects of space and place, including cultural differences in ways of knowing the world. They will learn about the processes that produce local-to-global distinctiveness in key problem areas including: poverty, injustice, and hunger; illness, disability, and disease; patriarchy, racism, and homophobia; and unequal access to natural resources, education, health, and safety. Students will also find an opportunity to learn how human practices and broader processes affect both our natural and built environments. Finally, students will learn practical tools to contribute to better world through their research, or professional participation in civil society, the private sector, or government agencies. The HG Track permits students to specialize in a particular region of interest, including East, South, Southwest (Middle East), and Southeast Asia, Europe, the Caribbean, and the United States, especially Appalachia and the South.

With the advice and consent of a faculty advisor, select from courses offered within the Department and other Departments, corresponding to a particular focus in HG.

^GEO 240 Geography and Gender .....	3
GEO 256 Behavior in Space and Time .....	3
GEO 260 Third World Development .....	3
GEO 285 Introduction to Planning .....	3
GEO 409G Geographic Information Systems and Science: Fundamentals .....	3
GEO 455 Economic Geography .....	3
GEO 460 Urban Geography .....	3
GEO 465 Special Topics in Human Geography .....	3
GEO 475G Medical Geography .....	3
GEO 490G American Landscapes .....	3
GEO 542 Political Geography .....	3
GEO 544 Human Population Dynamics .....	3
GEO 545 Transportation Geography .....	3
GEO 546 Tourism and Recreation Geography .....	3
GEO 547 Geography of Information and Communications .....	3
GEO 550 Sustainable Resource Development and Environmental Management .....	3
GEO 585 Aging and Environment .....	3
^Course may be used towards fulfilling the University Studies Program requirements.	

#### Track 3: Geographic Information Techniques (GIT)

The Geographic Information Techniques Concentration is concerned with all aspects of geographical information/data, including identification of data sources, collection, storage/retrieval, manipulation, analysis, and visualization. The GIT Concentration encompasses geographical information science (GIS), cartography, remote sensing, and spatial analysis.

GEO 309 Digital Geographic Data: Sources, Characteristics, Problems, and Uses .....	3
GEO 409G Geographic Information Systems and Science: Fundamentals .....	3
GEO 415 Map Interpretation .....	3
GEO 480 Internship in Geography .....	3
GEO 505 Practicum in Cartography .....	3
GEO 506 Introduction to Computer Cartography .....	3
GEO 507 Remote Sensing in Geography .....	3
GEO 508 Geographic Interpretation of Aerial Photography .....	3

#### From Outside the Major Department

Choose 15 hours outside Geography at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here .....

**Major hours:** ..... **42**

#### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** ..... **120**

^Course used towards completion of a USP Requirement.

## Bachelor of Science with a major in GEOGRAPHY

### 120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a GEO prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VII. Social Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>can be completed by Premajor Requirement</i> ) .....	6
X. Electives ( <i>choose a Natural Science and a Humanities course</i> ) .....	6
<b>USP hours:</b> .....	<b>27-44</b>

### College Requirements

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by Major Requirement</i> ) .....	
c. Humanities ( <i>completed by USP Elective Requirement</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>7-15</b>

**Premajor Requirements**

^GEO 130 Earth's Physical Environment ..... 3

^GEO 152 Regional Geography of the World  
or  
^GEO 160 Lands and Peoples of the  
Non-Western World ..... 3

^GEO 172 Human Geography ..... 3

**Premajor hours:** ..... 9

^Course may be used towards fulfilling the University Studies Program requirements.

**Major Requirements**

**Major Core Requirements**

GEO 300 Geographic Research ..... 3

GEO 305 Elements of Cartography ..... 3

GEO 310 Quantitative Techniques in Geography ..... 3

**Major Core hours:** ..... 9

**Other Course Work Required for the Major**

**From the Major Department:**

**Breadth Requirements** ..... 6

Choose one regional geography course and one thematic geography course at the 300+ level.

**Geography Concentration Tracks** ..... 12

Choose at least 12 hours of geography courses to include no more than six hours of GEO 560 (Independent Work in Geography) and GEO 480 (Internship in Geography) from one of the following tracks:

**Track 1: Earth Environmental Systems (Physical Geography)**

This concentration emphasizes the earth's physical environment, including soils and landscapes; fluvial and other hydrologic systems; weather and climate; and vegetation and animal life. Emphasis is on (a) the pattern of spatial variation these regimes exhibit; (b) the physical processes that underpin their historical and spatial development; and (c) the interactions between these regimes and human activity. Topical areas reflecting physical-human interactions include identification and analysis of pollution, mitigation of natural hazards, and the outcomes of environmental management strategies.

\*GEO 210 Pollution, Hazards and Environmental Management ..... 3

GEO 251 Weather and Climate ..... 3

GEO 351 Physical Landscapes ..... 3

\*GEO 441G Fluvial Forms and Processes ..... 3

\*Or other Physical Geography, GIS, Remote Sensing, Computer Cartography courses.

**Track 2: Human Geography (HG)**

Human Geography focuses on the identification, description, and analysis of: (a) human spatial behavior and cognition; (b) social, economic, and political processes as they are manifest locally and globally; and (c) the cultural impress of human activity on the landscape. Within these areas, students can focus on the socio-psychological aspects of space and place, including cultural differences in ways of knowing the world. They will learn about the processes that produce local-to-global distinctiveness in key problem areas including: poverty, injustice, and hunger; illness, disability, and disease; patriarchy, racism, and homophobia; and unequal access to natural resources, education, health, and safety. Students will also find an opportunity to learn how human practices and broader processes affect both our natural and built environments. Finally, students will learn practical tools to contribute to better world through their research, or professional participation in civil society, the private sector, or government agencies. The HG Track permits students to specialize in a particular region of interest, including East, South, Southwest (Middle East), and Southeast Asia, Europe, the Caribbean, and the United States, especially Appalachia and the South.

With the advice and consent of a faculty advisor, select from courses offered within the Department and other Departments, corresponding to a particular focus in HG.

^GEO 240 Geography and Gender ..... 3

GEO 256 Behavior in Space and Time ..... 3

GEO 260 Third World Development ..... 3

GEO 285 Introduction to Planning ..... 3

GEO 409G Geographic Information Systems and Science: Fundamentals ..... 3

GEO 455 Economic Geography ..... 3

GEO 460 Urban Geography ..... 3

GEO 465 Special Topics in Human Geography ..... 3

GEO 475G Medical Geography ..... 3

GEO 490G American Landscapes ..... 3

GEO 542 Political Geography ..... 3

GEO 544 Human Population Dynamics ..... 3

GEO 545 Transportation Geography ..... 3

GEO 546 Tourism and Recreation Geography ..... 3

GEO 547 Geography of Information and Communications ..... 3

GEO 550 Sustainable Resource Development and Environmental Management ..... 3

GEO 585 Aging and Environment ..... 3

^Course may be used towards fulfilling the University Studies Program requirements.

**Track 3: Geographic Information Techniques (GIT)**

The Geographic Information Techniques Concentration is concerned with all aspects of geographical information/data, including identification of data sources, collection, storage/retrieval, manipulation, analysis, and visualization. The GIT Concentration encompasses geographical information science (GIS), cartography, remote sensing, and spatial analysis.

GEO 309 Digital Geographic Data: Sources, Characteristics, Problems, and Uses ..... 3

GEO 409G Geographic Information Systems and Science: Fundamentals ..... 3

GEO 415 Map Interpretation ..... 3

GEO 480 Internship in Geography ..... 3

GEO 505 Practicum in Cartography ..... 3

GEO 506 Introduction to Computer Cartography ..... 3

GEO 507 Remote Sensing in Geography ..... 3

GEO 508 Geographic Interpretation of Aerial Photography ..... 3

**From Outside the Major Department**

Choose 15 hours outside Geography at the 200+ level. Courses used to satisfy USP and College Requirements can also be counted here ..... 15

**Major hours:** ..... 42

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 10

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

**Minor in Geography**

The minor in geography requires a minimum of 21 hours taken within the department. Students must complete courses as follows:

1. GEO 130 Earth's Physical Environment ..... 3

GEO 172 Human Geography ..... 3

**and**

GEO 152 Regional Geography of the World  
or  
GEO 160 Lands and Peoples of the Non-Western World ..... 3

2. GEO 300 Geographic Research  
or  
GEO 305 Elements of Cartography

or  
GEO 310 Quantitative Techniques in Geography 3

3. Nine additional hours at the 200 level or above.

**GEOLOGY**

The geological sciences encompass a variety of types of studies of the Earth, including considerations of composition, structure, pre-historic life, internal and surficial processes, and geological history. These studies have applications in the discovery and use of mineral resources, fuels, and water; in protection of the environment; and in planning for natural limitations (earthquakes, landslides, resources, etc.) on societal development. Students undertake the study of geological sciences in the classroom, laboratory, and field.

Students in geological sciences earn the Bachelor of Science or Bachelor of Arts degree. The B.S. program is designed for students who plan a career as a professional geologist or who plan to attend graduate school. The B.A. program is designed for students planning a career in government policy relating to earth science and environmental issues, earth-science education, business (environmental consulting), environmental law, or environmental medicine.

**Bachelor of Arts with a major in GEOLOGY**

**122 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

- I. Math (completed by Premajor Requirement)
- II. Foreign Language (placement exam recommended) ..... 0-8
- III. Inference-Logic (completed by Premajor Requirement)
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences (completed by Premajor Requirement)
- VII. Social Sciences ..... 6
- VIII. Humanities ..... 6
- IX. Cross-Cultural (with your advisor choose a 300+ level GEO course) ..... 3
- X. Electives (choose two Humanities courses) ..... 6

**USP hours:** ..... 27-38

**College Requirements**

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by Major Requirements)
  - b. Social Science (can be completed by USP Cross-Cultural and Major Requirements)

c. Humanities (completed by USP Elective Requirement) ..... 6

III. Laboratory or Field Work (completed by Premajor Requirement) ..... 6

IV. Electives ..... 6

**College Requirement hours: ..... 6-14**

**Premajor Requirements**

\*CHE 105 General College Chemistry I ..... 3

GLY 220 Principles of Physical Geology or GLY 223 Introduction to Geology in the Rocky Mountains ..... 4-6

GLY 295 Geoscience Orientation ..... 1

\*MA 123 Elementary Calculus and its Applications or MA 113 Calculus I ..... 3-4

PHY 151 Introduction to Physics or PHY 211 General Physics or PHY 231/241 General University Physics/Lab ..... 3-5

**Premajor hours: ..... 14-19**

**Major Requirements**

**Major Core Requirements**

GLY 230 Fundamentals of Geology I ..... 3

GLY 235 Fundamentals of Geology II ..... 3

GLY 295 Geoscience Orientation ..... 1

GLY 360 Mineralogy ..... 4

GLY 420G Structural Geology ..... 4

GLY 450G Sedimentary Geology ..... 4

GLY 461 Igneous and Metamorphic Petrology ..... 4

**Major Core hours: ..... 23**

**Other Course Work Required for the Major**

**From the Major Department:**

**Elective I** ..... 6

Choose six hours of GLY courses at the 400+ level, not to include GLY 495 or 496

**Elective II** ..... 6

Choose six additional hours of 300+ GLY or related courses

**From the Physics Department**

PHY 211/213 General Physics or PHY 231/232/241/242 General University Physics ..... 10

**NOTE:** Fourteen hours must be completed outside Geology. Partial fulfillment of this requirement can be completed by the PHY Sequence, the USP Cross-Cultural, and GLY Elective II Requirements ..... 0-4

**Other Major hours: ..... 22**

**Total Minimum Hours Required for Degree ..... 122**

\*Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in GEOLOGY**

**130 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math (completed by Premajor Requirement)

II. Foreign Language (placement exam recommended) ..... 0-8

III. Inference-Logic (completed by Premajor Requirement)

IV. Written Communication ..... 3-6

V. Oral Communication ..... 3

VI. Natural Sciences (completed by Premajor Requirement)

VII. Social Sciences ..... 6

VIII. Humanities ..... 6

IX. Cross-Cultural (choose a 200+ level Social Science course) ..... 3

X. Electives (choose a Humanities course) ..... 3

**USP hours: ..... 24-35**

**College Requirements**

I. Foreign Language (placement exam recommended) ..... 0-8

II. Disciplinary Requirements

a. Natural Science (completed by Major Requirements)

b. Social Science (completed by USP Cross-Cultural Requirement)

c. Humanities (completed by USP Elective Requirement)

III. Laboratory or Field Work (completed by Premajor Requirement)

IV. Electives ..... 6

**College Requirement hours: ..... 6-14**

**Premajor Requirements**

MA 113 Calculus I ..... 4

MA 114 Calculus II ..... 4

\*CHE 105 General College Chemistry I ..... 3

\*CHE 107 General College Chemistry II ..... 3

CHE 115 General Chemistry Laboratory ..... 3

GLY 220 Principles of Physical Geology or GLY 223 Introduction to Geology in the Rocky Mountains ..... 4-6

GLY 230 Fundamentals of Geology I ..... 3

GLY 235 Fundamentals of Geology II ..... 3

GLY 295 Geoscience Orientation ..... 1

**Premajor hours: ..... 28-30**

**Major Requirements**

**Major Core Requirements**

GLY 323 Field Work in Regional Geology ..... 6

GLY 360 Mineralogy ..... 4

GLY 420G Structural Geology ..... 4

GLY 450G Sedimentary Geology ..... 4

GLY 461 Igneous and Metamorphic Petrology ..... 4

GLY 490 Earth Dynamics ..... 3

**Major Core hours: ..... 25**

**Other Course Work Required for the Major**

**From the Major Department:**

**Elective I** ..... 6

Choose six hours of GLY courses at the 400+ level, not to include GLY 495 or 496

**Elective II** ..... 6

Choose six additional hours of 300+ GLY or related courses

**From the Physics Department**

PHY 211/213 General Physics or PHY 231/232/241/242 General University Physics 10

**NOTE:** Fourteen hours must be completed outside Geology. Partial fulfillment of this requirement can be completed by the PHY Sequence, the USP Cross-Cultural, and GLY Elective II Requirements ..... 0-4

**Other Major hours: ..... 22**



**Associate Professor Inmaculada Pertusa-Seva, Hispanic Studies – recipient of the 2003 Provost Award for Outstanding Teaching.**

**Total Minimum Hours Required for Degree ..... 130**

\*Course used towards completion of a USP Requirement.

**Minor in Geology Hours**

The minor consists of nineteen hours to include:

GLY 220 Principles of Physical Geology ..... 4

GLY 230 Fundamentals of Geology I ..... 3

GLY 235 Fundamentals of Geology II ..... 3

**Plus nine hours in GLY courses at the 300 level or higher ..... 9**

**B.A. or B.S. with a major in GERMAN**

The requirements for the B.A. and B.S. with a major in German are listed in this A&S section under *Modern and Classical Languages, Literatures and Cultures*.

**HISPANIC STUDIES**

The Department of Hispanic Studies aims to develop the student’s language skills, to provide an understanding of the cultures and literatures of the Spanish-speaking world, and to enhance the student’s career opportunities in a multicultural society. The department offers a major and a minor in Spanish.

**Bachelor of Arts with a major in SPANISH**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the

requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Premajor Requirement*) ..... 3-6  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*choose a 300+ level Social Science course*) ..... 3  
 X. Electives (*choose two Natural Science courses*) .. 6

**USP hours:** ..... 36-45

**College Requirements**

I. Foreign Language (*completed by Premajor Requirement*) ..... 3  
 II. Disciplinary Requirements  
     a. Natural Science (*completed by USP Elective Requirement*) ..... 3  
     b. Social Science (*partially completed by USP Cross-Cultural Requirement*) ..... 3  
     c. Humanities (*completed by Major Requirements*) ..... 1  
 III. Laboratory or Field Work ..... 6  
 IV. Electives ..... 6

**College Requirement hours:** ..... 10

**Premajor Requirements**

SPA 201 Intermediate Spanish III ..... 3  
 SPA 202 Intermediate Spanish IV ..... 3  
 SPA 210 Spanish Grammar and Syntax ..... 3  
 SPA 211 Intermediate Spanish Conversation ..... 3

**Premajor hours:** ..... 12

**Major Requirements**

**Major Core Requirements**

SPA 310 Spanish Composition through Textual Analysis ..... 3

**Major Core hours:** ..... 3

**Other Course Work Required for the Major**

**From the Major Department:**

Choose 18-27 hours of 300+ level Spanish courses to include at least six hours of literature, and at least nine hours at the 400+ level ..... 18-27

**From Outside the Major Department**

Choose 15 hours outside Spanish at the 200+ level from the following areas: anthropology, Arabic, art history, classics, English, French, geography, German, history, honors, Islamic studies, Italian, Japanese, Judaic studies, Latin American studies, linguistics, music, philosophy, political science, Portuguese, Russian, sociology, theatre, women’s studies. Courses from other areas may be used with the approval of the Director of Undergraduate Studies. 200+ level courses used to satisfy USP and College requirements can also be counted here ... 15-21

**Other Major hours:** ..... 39

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 11

**Total Minimum Hours Required for Degree** ..... 120

**Bachelor of Science with a major in SPANISH**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an SPA prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Premajor Requirement*) ..... 3-6  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*choose a Social Science course*) ..... 3  
 X. Electives (*choose two Natural Science courses*) ..... 6

**USP hours:** ..... 36-45

**College Requirements**

I. Foreign Language (*completed by Premajor Requirement*) ..... 3  
 II. Disciplinary Requirements  
     a. Natural Science (*completed by USP Elective Requirement*) ..... 3  
     b. Social Science (*completed by USP Cross-Cultural Requirement*) ..... 6  
     c. Humanities (*completed by Major Requirements*) ..... 1  
 III. Laboratory or Field Work ..... 6  
 IV. Electives ..... 6

**College Requirement hours:** ..... 7

**Premajor Requirements**

SPA 201 Intermediate Spanish III ..... 3  
 SPA 202 Intermediate Spanish IV ..... 3  
 SPA 210 Spanish Grammar and Syntax ..... 3  
 SPA 211 Intermediate Spanish Conversation ..... 3

**Premajor hours:** ..... 12

**Major Requirements**

**Major Core Requirements**

SPA 310 Spanish Composition through Textual Analysis ..... 3

**Major Core hours:** ..... 3

**Other Course Work Required for the Major**

**From the Major Department:**

Choose 18-27 hours of 300+ level Spanish courses to include at least six hours of literature, and at least nine hours at the 400+ level ..... 18-27

**From Outside the Major Department**

Choose 15 hours outside Spanish at the 200+ level from the following areas: anthropology, Arabic, art history, classics, English, French, geography, German, history, honors, Islamic studies, Italian, Japanese, Judaic studies,

Latin American studies, linguistics, music, philosophy, political science, Portuguese, Russian, sociology, theatre, women’s studies. Courses from other areas may be used with the approval of the Director of Undergraduate Studies. 200+ level courses used to satisfy USP and College requirements can also be counted here ... 15-21

**Other Major hours:** ..... 39

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 14

**Total Minimum Hours Required for Degree** ..... 120

**Teacher Certification Requirements**

The requirements for teacher certification in secondary foreign languages are outlined in the *College of Education* section of this Bulletin.

**Minor in Spanish**

The minor in Spanish requires a total of 21 hours based on the following distribution:

1. SPA 202 or SPA 242 or equivalent
2. SPA 210
3. SPA 211
4. Beyond the first six-semester sequence, twelve additional hours which must be taken at the 300 level or above. (At least one course, three hours, must be taken in Spanish or Spanish-American literature.)

**Note:** No courses taken in translation may be counted toward the minor in Spanish.

**HISTORY**

The Department of History’s program seeks to expand understanding of human experience and enable students to learn about their world in light of its past. The department offers a wide range of courses. These courses, an essential part of a liberal arts education, are also designed to train students to be teachers of history and professional historians. Faculty and students in the department participate in many of the University’s interdisciplinary programs such as African American studies, women’s studies, Latin American studies, and Asian studies.

**Bachelor of Arts with a major in HISTORY**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language ..... 0-8  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6

VII. Social Sciences ..... 6  
 VIII. Humanities (completed by Premajor Requirements)  
 IX. Cross-Cultural (choose a 300+ level Social Science course) ..... 3  
 X. Electives (choose two Natural Science courses) ..... 6  
**USP hours: ..... 30-47**

**College Requirements**

I. Foreign Language (placement exam recommended) ..... 0-8  
 II. Disciplinary Requirements  
 a. Natural Science (completed by USP Elective Requirement)  
 b. Social Science (partially completed by USP Cross-Cultural Requirement) ..... 3  
 c. Humanities (completed by Major Requirements)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours: ..... 10-18**

**Premajor Requirements**

\*HIS 104 A History of Europe through the Mid-17th Century and  
 \*HIS 105 A History of Europe from the Mid-17th Century to Present  
**OR**  
 \*HIS 106 Western Culture: Science and Technology I and  
 \*HIS 107 Western Culture: Science and Technology II  
**OR**  
 \*HIS 108 History of the United States Through 1865 and  
 \*HIS 109 History of the United States Since 1865 .... 6  
**Premajor hours: ..... 6**

**Major Requirements**

**Major Core Requirements**  
 HIS 301 History Workshop: Introduction to the Study of History  
**and**  
 HIS 499 Senior Seminar for History Majors  
**OR**  
 HIS 470 Honors Seminar in Historical Methods  
**and**  
 HIS 471 Honors Seminar in Historical Research ..... 6  
**Major Core hours: ..... 6**

**Other Course Work Required for the Major**

**From the Major Department:**  
 Choose 24 hours to include at least six hours in pre-1789 work; at least six hours in post-1789 work; at least three hours in American history; at least three hours of European history; at least three hours in the history of Africa, Asia, Latin America, or the Middle East. At least 15 of these hours must be at the 300+ level ..... 24  
**From Outside the Major Department**  
 Choose 15 hours outside History at the 200+ level, or 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 15  
**Other Major hours: ..... 39**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 4  
**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in HISTORY**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an HIS prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language ..... 0-8  
 III. Inference-Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities (completed by Premajor Requirements)  
 IX. Cross-Cultural (choose a level Social Science course) ..... 3  
 X. Electives (choose two Natural Science courses) .. 6  
**USP hours: ..... 30-47**

**College Requirements**

I. Foreign Language (placement exam recommended) ..... 0-8  
 II. Disciplinary Requirements  
 a. Natural Science (completed by USP Elective Requirement)  
 b. Social Science (completed by USP Cross-Cultural Requirement)  
 c. Humanities (completed by Major Requirements)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours: ..... 7-15**

**Premajor Requirements**

\*HIS 104 A History of Europe through the Mid-17th Century and  
 \*HIS 105 A History of Europe from the Mid-17th Century to Present  
**OR**  
 \*HIS 106 Western Culture: Science and Technology I and  
 \*HIS 107 Western Culture: Science and Technology II  
**OR**  
 \*HIS 108 History of the United States Through 1865 and  
 \*HIS 109 History of the United States Since 1865 .... 6  
**Premajor hours: ..... 6**

**Major Requirements**

**Major Core Requirements**  
 HIS 301 History Workshop: Introduction to the Study of History  
**and**  
 HIS 499 Senior Seminar for History Majors  
**OR**  
 HIS 470 Honors Seminar in Historical Methods  
**and**  
 HIS 471 Honors Seminar in Historical Research ..... 6  
**Major Core hours: ..... 6**



**Associate Professor Kathi L. Kern, History - recipient of the 2003 Great Teacher Award.**

**Other Course Work Required for the Major**

**From the Major Department:**  
 Choose 24 hours to include at least six hours in pre-1789 work; at least six hours in post-1789 work; at least three hours in American history; at least three hours of European history; at least three hours in the history of Africa, Asia, Latin America, or the Middle East. At least 15 of these hours must be at the 300+ level ..... 24

**From Outside the Major Department**  
 Choose 15 hours outside History at the 200+ level, or 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 15  
**Other Major hours: ..... 39**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 7

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP Requirement.

**Minor in History**

A minor in history provides training in critical thinking and expression and a valuable perspective on the varieties of civilizations and modes of human behavior. The minor requires a minimum of 18 hours, to be distributed as follows:

1. A six-hour sequential introduction to the history of a civilization or a nation. This may be selected from:  
 HIS 104/105 History of Europe  
 HIS 106/107 Western Culture: Science and Technology I and II  
 HIS 108/109 History of the United States  
 HIS 202/203 History of the British People  
 HIS 229/230 The Ancient World  
 HIS 247/248 History of Islam and Middle East Peoples  
 HIS 295/296 East Asia  
 HIS 370/371 Middle Ages  
 HIS 385/386 History of Russia
2. Twelve hours of course work at or above the 300 level, at least six hours of which must be at or above the 400 level. No more than 12 of the 18 hours required may be in any one of the subfields of American history, European history, or history of the non-Western world.



Professor Jeremy D. Popkin, History – recipient of the Research Professorship in recognition of outstanding research achievement.

## LATIN AMERICAN STUDIES

The Latin American Studies program provides an integrated, interdisciplinary approach to the study of a geographic and cultural region. The core course (LAS 201), the senior course in directed research, and careful faculty supervision are essential components of the degree program. Students choose, however, from a variety of courses in anthropology, economics, geography, history, political science, the Spanish language and Spanish American literature.

### Bachelor of Arts with a major in LATIN AMERICAN STUDIES

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

#### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Major Requirement</i> ) .....	
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>completed by Premajor Requirement</i> ) .....	6
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>33-42</b>

#### College Requirements

- I. Foreign Language (*completed by Major Requirement*)
- II. Disciplinary Requirements
  - a. Natural Science (*completed by USP Elective Requirement*)
  - b. Social Science (*completed by Major Requirement*)
  - c. Humanities (*completed by Major Requirements*)
- III. Laboratory or Field Work .....
- IV. Electives .....

**College Requirement hours:** .....

#### Premajor Requirements

- \*LAS 201 Introduction to Latin America .....
- HIS 206 History of Colonial Latin America, 1492-1810  
or  
HIS 207 History of Modern Latin America,  
1810-Present .....

**Premajor hours:** .....

#### Major Requirements

- Major Core Requirements**
  - LAS 401 Directed Research in Latin American Studies .....
- Major Core hours:** .....

#### Other Course Work Required for the Major

- For the Latin American Component:**
- Language Skills** .....
  - Choose from: SPA 210, 211, 302, 310, 311, 411G, 501, 503

- Prehistory and History** .....
- Choose from: ANT 320, 322, HIS 206, 207, 561, 562, 563, LAS 395

- Contemporary Latin American Societies** .....
- Choose from: ANT 324, 470G, ECO 475G, GEO 324, LAS 395, PS 428G, 538, SPA 215, 314, 514

- Literature and the Arts of the Americas** .....
- Choose from: LAS 395, SPA 322, 438G, 468G

- Elective** .....
- Choose from any of the areas above

#### For the Related Component

Choose 18 hours at the 300+ level from the following areas: agriculture, allied health, anthropology, architecture, art, communications, economics, education, geography, geology, history, journalism, languages, linguistics, literature, philosophy, political science, psychology, sociology, statistics. At least six hours must come from two different areas unless a minor or second major is declared. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

#### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** .....

\*Course used towards completion of a USP Requirement.

### Bachelor of Science with a major in LATIN AMERICAN STUDIES

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with LAS and SPA prefixes are generally not accepted towards fulfilling this 60-hour require-

ment. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

#### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Major Requirement</i> ) .....	
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>completed by Premajor Requirement</i> ) .....	6
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>33-42</b>

#### College Requirements

- I. Foreign Language (*completed by Major Requirement*)
- II. Disciplinary Requirements
  - a. Natural Science (*completed by USP Elective Requirement*)
  - b. Social Science (*completed by Major Requirement*)
  - c. Humanities (*completed by Major Requirements*)
- III. Laboratory or Field Work .....
- IV. Electives .....

**College Requirement hours:** .....

#### Premajor Requirements

- \*LAS 201 Introduction to Latin America .....
  - HIS 206 History of Colonial Latin America, 1492-1810  
or  
HIS 207 History of Modern Latin America,  
1810-Present .....
- Premajor hours:** .....

#### Major Requirements

- Major Core Requirements**
  - LAS 401 Directed Research in Latin American Studies .....
- Major Core hours:** .....

#### Other Course Work Required for the Major

- For the Latin American Component:**
- Language Skills** .....
  - Choose from: SPA 210, 211, 302, 310, 311, 411G, 501, 503

- Prehistory and History** .....
- Choose from: ANT 320, 322, HIS 206, 207, 561, 562, 563, LAS 395

- Contemporary Latin American Societies** .....
- Choose from: ANT 324, 470G, ECO 475G, GEO 324, LAS 395, PS 428G, 538, SPA 215, 314

- Literature and the Arts of the Americas** .....
- Choose from: LAS 395, SPA 322, 438G, 468G

- Elective** .....
- Choose from any of the areas above

#### For the Related Component

Choose 18 hours at the 200+ level from the following areas: agriculture, allied health, anthropology, architecture, art, communications, economics, education, geography, geology, history, journalism, languages, linguistics, literature, philosophy, political science, psychology, sociology, statistics. At least six hours must come from two different areas unless a minor or second major is declared. 200+ level courses used to satisfy USP and

College requirements can also be counted here .....	18
<b>Other Major hours:</b> .....	<b>39</b>

## Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....	23
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## Total Minimum Hours Required for Degree ..... 120

\*Course used towards completion of a USP or College Requirement.

## Minor in Latin American Studies

The minor in Latin American Studies provides instruction and broad exposure to the society and culture of Latin America. The minor requires a minimum of 18 credit hours to be distributed as follows:

### Premajor Requirements

1. LAS 201 Introduction to Latin America .....	3
2. plus one of the following courses:	
HIS 206 History of Colonial Latin America, 1492 to 1810 .....	3
HIS 207 History of Modern Latin America, 1810 to Present .....	3

### Minor Requirements

A minimum of 12 credit hours distributed evenly over the following four subject areas:

1. Language Skills (three hours beyond second-year Spanish)
2. Prehistory and History (three hours)
3. Contemporary Latin American Societies (three hours)
4. Literature and the Arts of the Americas (three hours)

## LINGUISTICS

Linguistics is an interdisciplinary program combining resources from English, anthropology, psychology, philosophy, computer science, and the foreign languages, to develop an understanding of the nature and implications of human language. The Linguistics program provides solid foundations in phonological and grammatical analysis, as well as opportunities to investigate the social, cultural, psychological, and physical aspects of language use.

## Bachelor of Arts with a major in LINGUISTICS

### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirements</i> ) .....	
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6

VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Social Science course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) .....	6
<b>USP hours:</b> .....	<b>36-45</b>

### College Requirements

I. Foreign Language ( <i>completed by Premajor Requirements</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>10</b>

### Premajor Requirements

Complete the third and fourth semesters of a foreign language (or the equivalent) .....	6-8
<b>Premajor hours:</b> .....	<b>6-8</b>

### Major Requirements

#### Major Core Requirements

LIN 211 Introduction to Linguistics I .....	3
LIN 212 Introduction to Linguistics II .....	3

plus three of the following:

LIN 318 Semantics and Pragmatics	
LIN 512 Modern English Grammar	
LIN 513 Teaching English as a Second Language	
LIN 515 Phonological Analysis	
LIN 516 Grammatical Analysis .....	9
<b>Major Core hours:</b> .....	<b>15</b>

### Other Course Work Required for the Major

#### For the Linguistics Component:

Choose 12 hours of linguistics courses .....	12
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#### For the Related Component:

Choose 21 hours outside Linguistics at the 300+ level. Courses are generally chosen from such disciplines as anthropology, communications, computer science, languages, mathematics, philosophy, and psychology. 200+ level courses used to satisfy USP and College requirements can also be counted here .....	21
<b>Other Major hours:</b> .....	<b>33</b>

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....	9
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## Total Minimum Hours Required for Degree ..... 120

Note: Course used towards completion of a USP Requirement.

## Bachelor of Science with a major in LINGUISTICS

### 120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an LIN prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements

in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirements</i> ) .....	
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a Social Science course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>36-45</b>

### College Requirements

I. Foreign Language ( <i>completed by Premajor Requirements</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by USP Cross-Cultural Requirement</i> ) .....	
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>7</b>

### Premajor Requirements

Complete the third and fourth semesters of a foreign language (or the equivalent) .....	6-8
<b>Premajor hours:</b> .....	<b>6-8</b>

### Major Requirements

#### Major Core Requirements

LIN 211 Introduction to Linguistics I .....	3
LIN 212 Interdiction to Linguistics II .....	3

plus three of the following:

LIN 318 Semantics and Pragmatics	
LIN 512 Modern English Grammar	
LIN 513 Teaching English as a Second Language	
LIN 515 Phonological Analysis	
LIN 516 Grammatical Analysis .....	9
<b>Major Core hours:</b> .....	<b>15</b>

### Other Course Work Required for the Major

#### For the Linguistics Component:

Choose 12 hours of linguistics courses .....	12
--	----

#### For the Related Component:

Choose 21 hours outside Linguistics at the 300+ level. Courses are generally chosen from such disciplines as anthropology, communications, computer science, languages, mathematics, philosophy, and psychology. 200+ level courses used to satisfy USP and College requirements can also be counted here .....	21
<b>Other Major hours:</b> .....	<b>33</b>

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....	12
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## Total Minimum Hours Required for Degree ..... 120

Note: Course used towards completion of a USP Requirement.

**Minor in Linguistics**

The minor in linguistics requires 18 hours of course work to be selected as follows:

1. ENG/LIN 211
2. ENG/LIN 212

**Major Area Courses** (6 hours):

Choose from: LIN 318, ENG/LIN 515, ENG/LIN 516, ENG/LIN 512, EDC/ENG/LIN 513.

To make up the total of 18 hours, choose two courses from among the remaining LIN courses, including any of those listed above.

**MATHEMATICAL ECONOMICS**

The mathematical economics major offers students a degree program that combines mathematics, statistics, and economics. In today's increasingly complicated international business world, a strong preparation in the fundamentals of both economics and mathematics is crucial to success. This degree program is designed to prepare a student to go directly into the business world with skills that are in high demand, or to go on to graduate study in economics or finance. A degree in mathematical economics would, for example, prepare a student for the beginning of a career in operations research or actuarial science.

In many ways, the mathematical economics program parallels the engineering philosophy. It combines the quantitative methods of mathematics with an applied science in order to solve real problems. As an example, operations research is used to optimize costs for extremely complicated systems such as airline scheduling. A major problem in business and economics is decision making under uncertainty. Efficient inventory control for large national retail chains can mean the difference between success and failure. A business will improve its bottom line if it can effectively control cost of inventory under the uncertainty of consumer demand. The solution of control problems of this type requires knowledge of relatively sophisticated mathematics and statistics as well as knowledge of basic economic principles.

There is currently a serious shortage of individuals who have sufficient training in mathematics and statistics as well as an understanding of business and economics. Companies that employ operations research analysts or actuaries cannot fill their positions. Mathematical economics and related areas have often been referred to as engineering for the service sector or "financial engineering." With the ever increasing importance of the service sector in our economy, the math-econ degree will prove to be a valuable asset. The program will give the student an opportunity to study a fascinating collection of ideas and it will also provide the student with very marketable skills.

**Bachelor of Arts with a major in MATHEMATICAL ECONOMICS**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

- I. Math (completed by Premajor Requirement)
  - II. Foreign Language (placement exam recommended) ..... 0-8
  - III. Inference-Logic (completed by Premajor Requirement)
  - IV. Written Communication ..... 3-6
  - V. Oral Communication\* (can be partially completed by Major Requirement) ..... 1
  - VI. Natural Sciences ..... 6
  - VII. Social Sciences (partially completed by Major Requirement) ..... 3
  - VIII. Humanities ..... 6
  - IX. Cross-Cultural (choose a 300+ level Humanities course) ..... 3
  - X. Electives (choose two Natural Science courses) ..... 6
- USP hours: ..... 28-39**

**College Requirements**

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by USP Elective Requirement)
  - b. Social Science (completed by Major Requirements)
  - c. Humanities (partially completed by USP Cross-Cultural Requirement) ..... 3
- III. Laboratory or Field Work ..... 1
- IV. Electives ..... 6

**College Requirement hours: ..... 10-18**

**Premajor Requirements**

- ^MA 113 Calculus I ..... 4
- MA 114 Calculus II ..... 4

**Premajor hours: ..... 8**

**Major Requirements**

- Mathematics Core Requirements**
- MA 213 Calculus III ..... 4
  - MA 214 Calculus IV ..... 3
  - MA 320 Introductory Probability ..... 3
  - MA 322 Matrix Algebra and its Applications ..... 3

**Mathematics Core hours: ..... 13**

**Economics Core Requirements**

- ^ECO 201 Principles of Economics I ..... 3
- ECO 202 Principles of Economics II ..... 3
- ECO 391 Economic and Business Statistics ..... 3
- ECO 401 Intermediate Microeconomic Theory ..... 3
- ECO 402 Intermediate Macroeconomic Theory ..... 3

**Economics Core hours: ..... 15**

**Other Course Work Required for the Major**

- For the Mathematics Component:**
- Choose one of the following sequences: MA 416G and MA 417G, MA 417G and MA 472G, or STA 524 and STA 525 ..... 6

**For the Economics Component**

- \*Choose nine hours of 300+ level economics courses ..... 9

**For the Statistics Component**

- Choose STA 291 or a higher level statistics course ... 3

**Other Major hours: ..... 18**

**Electives**

- Choose electives to lead to the minimum total of 120 hours required for graduation ..... 9

**Total Minimum Hours Required for Degree ..... 120**

^Course used towards completion of a USP Requirement.

\*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

**Bachelor of Science with a major in MATHEMATICAL ECONOMICS**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an ECO prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math (completed by Premajor Requirement)
- II. Foreign Language (placement exam recommended) ..... 0-8
- III. Inference-Logic (completed by Premajor Requirement)
- IV. Written Communication ..... 3-6
- V. Oral Communication\* (can be partially completed by Major Requirement) ..... 1
- VI. Natural Sciences ..... 6
- VII. Social Sciences (partially completed by Major Requirement) ..... 3
- VIII. Humanities ..... 6
- IX. Cross-Cultural (choose a Humanities course) ... 3
- X. Electives (choose two Natural Science courses) .. 6

**USP hours: ..... 28-39**

**College Requirements**

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by USP Elective Requirement)
  - b. Social Science (completed by Major Requirements)
  - c. Humanities (completed by USP Cross-Cultural Requirement)
- III. Laboratory or Field Work ..... 1
- IV. Electives ..... 6

**College Requirement hours: ..... 7-15**

**Premajor Requirements**

- ^MA 113 Calculus I ..... 4
- MA 114 Calculus II ..... 4

**Premajor hours: ..... 8**

**Major Requirements****Mathematics Core Requirements**

MA 213 Calculus III .....	4
MA 214 Calculus IV .....	3
MA 320 Introductory Probability .....	3
MA 322 Matrix Algebra and its Applications .....	3

**Mathematics Core hours:** ..... 13

**Economics Core Requirements**

^ECO 201 Principles of Economics I .....	3
ECO 202 Principles of Economics II .....	3
ECO 391 Economic and Business Statistics .....	3
ECO 401 Intermediate Microeconomic Theory .....	3
ECO 402 Intermediate Macroeconomic Theory .....	3

**Economics Core hours:** ..... 15

**Other Course Work Required for the Major****For the Mathematics Component:**

Choose one of the following sequences: MA 416G and MA 417G, MA 471G and MA 472G, or STA 524 and STA 525 ..... 6

**For the Economics Component**

\*Choose nine hours of 300+ level economics courses ..... 9

**For the Statistics Component**

Choose STA 291 or a higher level statistics course ... 3

**Other Major hours:** ..... 18

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 12

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

\*COM 199 + ECO 499 satisfy the USP Oral Communication Requirement.

**MATHEMATICS**

The department offers two programs leading to the B.A. or B.S. degree. Students may major in mathematics by completing the requirements for either: Option A, Mathematics or Option B, Mathematical Sciences.

The mathematics option consists of courses offered solely by the department of mathematics and is intended for those who wish to follow a traditional mathematics career path. The mathematical sciences option consists of courses offered by the departments of computer science, mathematics and statistics, and is intended for those who opt for a career that requires the application of mathematics. The requirements for these programs are outlined below.

**Bachelor of Arts with a major in MATHEMATICS****121 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bach-

elor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ( <i>completed by Premajor Requirement</i> )	
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference-Logic ( <i>completed by Premajor Requirement</i> )	
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Humanities course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>33-44</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	6
b. Social Science .....	6
c. Humanities ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>16-24</b>

**OPTION A - Mathematics****Premajor Requirements**

^MA 113 Calculus I .....	4
MA 114 Calculus II .....	4
CS 115 Introduction to Computer Programming .....	3

**Premajor hours:** ..... 11

**Major Requirements****Major Core Requirements**

MA 213 Calculus III .....	4
MA 214 Calculus IV .....	3
MA 322 Matrix Algebra and its Applications .....	3

**Major Core hours:** ..... 10

**Other Course Work Required for the Major****From the Major Department:**

Choose 18 hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, MA 433G/485G; at least two of the following must be included (they can also count as the sequence if appropriate): MA 351, 352, 361, 362, 471G, 472G. May not include MA 322. .... 18

**From Outside the Major Department**

Choose 14 hours outside Mathematics at the 300+ level. Courses are generally chosen from physics, chemistry, biology, logic, statistics, computer science, economics, and engineering. 200+ level courses used to satisfy USP and College requirements can also be counted here. ... 14

**Other Major hours:** ..... 32

**OPTION B - Mathematical Sciences****Premajor Requirements**

^MA 113 Calculus I .....	4
MA 114 Calculus II .....	4
CS 115 Introduction to Computer Programming .....	3
CS 215 Introduction to Program Design, Abstraction and Problem Solving .....	4



**Professor Carl Lee, Mathematics – recipient of the 2003 Provost Award for Outstanding Teaching.**

**Premajor hours:** ..... 15

**Major Requirements****Major Core Requirements**

MA 213 Calculus III .....	4
MA 214 Calculus IV .....	3
CS 216 Introduction to Software Engineering .....	3
STA 281 Probability and Statistics Using Interactive Computer Techniques .....	3
MA/STA 320 Introductory Probability .....	3
CS/MA 321 Introduction to Numerical Methods .....	3
STA 321 Basic Statistical Theory I .....	3
MA 322 Matrix Algebra and its Applications .....	3
CS/MA 416G Principles of Operations Research I ....	3
STA 422G Basic Statistical Theory II .....	3

**Major Core hours:** ..... 31

**Other Course Work Required for the Major****From the Major Department:**

Choose one of the following: MA 361, MA 433G, MA 471G .....

Choose nine hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, CS 315/450G. A substitute sequence may be approved upon petition by the student to the Director of Undergraduate Studies. Approved courses in the mathematical sciences include those courses in computer science, engineering mechanics, mathematics, and statistics which are not of a service nature .....

**From Outside the Major Department**

Choose nine hours outside Mathematics at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** ..... 21

**Total Minimum Hours Required for Degree** ..... 121

^Course used towards completion of a USP or College Requirement.

**Bachelor of Science with a major in MATHEMATICS**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math (completed by Premajor Requirement)
- II. Foreign Language (placement exam recommended) ..... 0-8
- III. Inference-Logic (completed by Premajor Requirement) ..... 3-6
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences ..... 6
- VII. Social Sciences ..... 6
- VIII. Humanities ..... 6
- IX. Cross-Cultural (choose a Humanities course) .... 3
- X. Electives (choose one Social Science and one Natural Science course) ..... 6

**USP hours: ..... 33-44**

**College Requirements**

- I. Foreign Language (placement exam recommended) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (completed by USP Elective Requirement)
  - b. Social Science (completed by USP Elective Requirement)
  - c. Humanities (completed by USP Cross-Cultural Requirement)
- III. Laboratory or Field Work ..... 1
- IV. Electives ..... 6

**College Requirement hours: ..... 6-14**

**OPTION A - Mathematics**

**Premajor Requirements**

- ^MA 113 Calculus I ..... 4
- MA 114 Calculus II ..... 4
- CS 115 Introduction to Computer Programming ..... 3

**Premajor hours: ..... 11**

**Major Requirements**

**Major Core Requirements**

- MA 213 Calculus III ..... 4
- MA 214 Calculus IV ..... 3
- MA 322 Matrix Algebra and its Applications ..... 3

**Major Core hours: ..... 10**

**Other Course Work Required for the Major**

**From the Major Department:**

Choose 18 hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, MA 433G/485G; at least two of the following must be included (they can also count as the sequence if appropriate): MA 351, 352, 361, 362, 471G, 472G.  
May not include MA 322 ..... 18

**From Outside the Major Department**

Choose 14 hours outside Mathematics at the 300+ level. Courses are generally chosen from physics, chemistry,

biology, logic, statistics, computer science, economics, and engineering. 200+ level courses used to satisfy USP and College requirements can also be counted here .. 14

**Other Major hours: ..... 32**

**OPTION B - Mathematical Sciences**

**Premajor Requirements**

- ^MA 113 Calculus I ..... 4
- MA 114 Calculus II ..... 4
- CS 115 Introduction to Computer Programming ..... 3
- CS 215 Introduction to Program Design, Abstraction and Problem Solving ..... 4

**Premajor hours: ..... 15**

**Major Requirements**

**Major Core Requirements**

- MA 213 Calculus III ..... 4
- MA 214 Calculus IV ..... 3
- CS 216 Introduction to Software Engineering ..... 3
- STA 281 Probability and Statistics Using Interactive Computer Techniques ..... 3
- MA/STA 320 Introductory Probability ..... 3
- CS/MA 321 Introduction to Numerical Methods ..... 3
- STA 321 Basic Statistical Theory I ..... 3
- MA 322 Matrix Algebra and its Applications ..... 3
- CS/MA 416G Principles of Operations Research I .... 3
- STA 422G Basic Statistical Theory II ..... 3

**Major Core hours: ..... 31**

**Other Course Work Required for the Major**

**From the Major Department:**

Choose one of the following: MA 361, MA 433G, MA 471G ..... 3

Choose nine hours of 300+ level mathematics courses. One of the following sequences, or a substitute approved by the Director of Undergraduate Studies, must be included: MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, CS 315/450G. A substitute sequence may be approved upon petition by the student to the Director of Undergraduate Studies. Approved courses in the mathematical sciences include those courses in computer science, engineering mechanics, mathematics, and statistics which are not of a service nature ..... 9

**From Outside the Major Department**

Choose nine hours outside Mathematics at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 9

**Other Major hours: ..... 21**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 0-9

**Total Minimum Hours Required for Degree ..... 120**

^Course used towards completion of a USP or College Requirement.

**Mathematics Cooperative Education**

Qualified students who major in mathematics may participate in the Mathematical Sciences Cooperative Education Program which provides the opportunity for alternate semesters of academic study and full-time employment in business or industry. Guidelines and application forms are available in the Engineering/Math Sciences Co-op Program Office, 320 Robotics Building.

**Minor in Mathematics**

Students who minor in mathematics must complete the following:

1. MA 113/114 Calculus I and II and ..... 8  
MA 213 Calculus III ..... 4  
**or equivalent**
2. MA 322 Matrix Algebra and Its Applications . 3  
**or equivalent**
3. Six additional hours of mathematics courses numbered greater than 213. Possible courses include: MA 214, MA 261, MA 320, MA 321, MA 330, MA 341, MA 351, MA 361, or any 400 level math course.

**MILITARY SCIENCE AND LEADERSHIP (Army Officer Commissioning)**

The Army Reserve Officers' Training program at the University of Kentucky is open to both men and women and follows a general military science curriculum that is normally completed in four years but which may be completed in two years. An academic major in military science is not offered. The program's primary objective is to commission the future leadership of all branches of the Active Army, Army National Guard, and U.S. Army Reserve.

**Scholarships**

Students interested in Army ROTC scholarships should contact the Army ROTC Admissions Officer at (859) 257-6864; or visit 101 Barker Hall on campus. Additionally, students should refer to the *Student Financial Aid, Awards, and Benefits* section of this Bulletin.

**Academic Program**

Successful completion of 20 credit hours of military science courses while simultaneously completing undergraduate or graduate degree requirements qualifies a student to be commissioned as a Second Lieutenant in the U.S. Army. Required program courses are: AMS 101, AMS 102, AMS 211, AMS 212, AMS 301, AMS 302, AMS 341, AMS 342, and a computer science course. Also, cadets attend a five-week National Advance Leadership Training Camp, usually in the summer between the junior and senior years.

An alternative two-year program is available for students with at least two academic years remaining until graduation and who have not completed the AMS 100- and AMS 200-level courses. This program is particularly suited to community college students transferring to the University, or students who did not participate in the Basic Program during their freshman and sophomore years. Students should contact the Professor of Military Science about the five-week summer Leadership Training Course conducted each summer at Fort Knox, Kentucky. Successful completion of the camp enables students to take AMS 300-level courses and complete the pre-commission program in two years.

In certain cases, veterans or students who have completed Army basic training are also

eligible to complete the program in two years. Members of the Army National Guard or U.S. Army Reserve may also directly enroll in the National Advance Leadership Training Camp and participate in the Simultaneous Membership Program (SMP).

The Basic Program classes (100 and 200 level) are orientational and deal with the Army's role in the U.S. government. American military history, small unit organizations/operations, military geography/map reading and some adventure training are also addressed. **No military obligation** is incurred by completion of the courses.

Advanced Program classes (300 level) focus on leadership, management, and command/staff responsibilities within military organizations. All upper division Army ROTC students receive \$350+ per month tax-free subsistence pay during the academic year. During the summer, students receive about \$700 while attending Camp.

Leadership Development (laboratory) periods, held during the academic year at the call of the Professor of Military Science, focus on adventure-type training (e.g., orienteering, rappelling, survival training, and basic marksmanship). These activities are offered, subject to availability of equipment and facilities, to provide an opportunity to develop leadership, organizational abilities, and confidence.

Professional development and enrichment opportunities are also available through ROTC-sponsored university organizations – the Pershing Rifles and Kentucky Rangers.

Army ROTC incorporates the dimension of leadership into the academic curriculum and provides training and experience that can be valuable in any profession.

For more information, contact the Professor of Military Science, ATTN: Admissions Officer, U.S. Army ROTC, 101 Barker Hall, University of Kentucky, Lexington, KY 40506-0028; or call (859) 257-6864. Visit the Web site at: [www.uky.edu/AS/MilitaryScience/](http://www.uky.edu/AS/MilitaryScience/).

## MODERN AND CLASSICAL LANGUAGES, LITERATURES AND CULTURES

The Department of Modern and Classical Languages, Literatures and Cultures is comprised of the Divisions of Classics, French and Italian, German Studies, and Russian and Eastern Studies.

### CLASSICS

The Division of Classics offers a Bachelor of Arts and a Bachelor of Science degree in Classics. The division teaches a broad range of courses in the languages, literature, history, art, and thought of the Greco-Roman world. Classics majors take both a common core of courses and a group of courses in one of three

optional areas: Greek, Latin, or Classical Civilization. Students in all three options complete the specific University Studies requirements. The minimum requirements for graduation with departmental honors in Classics are an overall grade-point average of 3.55 and the completion of a 300 level course in Greek or Latin with a grade of **B**. Access the division's Web site at: [www.uky.edu/AS/Classics/](http://www.uky.edu/AS/Classics/) for more information.

### Bachelor of Arts with a major in CLASSICS

#### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

#### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirements</i> ) .....	
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities ( <i>completed by Major Requirements</i> ) .....	
IX. Cross-Cultural ( <i>choose a 300+ level Social Science course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6

**USP hours:** ..... 30-39

#### College Requirements

I. Foreign Language ( <i>completed by Major Requirements</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6

**College Requirement hours:** ..... 10

#### Premajor Requirements

*CLA 101 and 102 Elementary Latin or *CLA 151 and 152 Elementary Greek .....	8
<b>Premajor hours:</b> .....	8

#### Major Requirements

<b>Major Core Requirements</b>	
*CLA 210 The Art of Greece and Rome .....	3
*CLA 229 The Ancient Near East and Greece to the Death of Alexander the Great .....	3
*CLA 230 The Hellenistic World and Rome to the Death of Constantine .....	3
*CLA 261 Literary Masterpieces of Greece and Rome .....	3
CLA 580 Independent Work in Classics .....	3
<b>Major Core hours:</b> .....	15



Professor Hubert Martin Jr., Classics - recipient of the 2003 Great Teacher Award.

#### Other Course Work Required for the Major

##### From the Major Department:

<b>Language Courses:</b> .....	6
CLA 201/202 or CLA 251/252	
<b>Latin/Greek/Classical Civilization Option</b> .....	12
Choose four language courses, in the area of study, at the 300- level or above.	

##### From Outside the Major Department

Choose 15 hours outside Classics at the 300+ level. 200+ level courses used to satisfy USP and College Requirements can also be counted here. Courses are typically selected from such areas of study as biblical literature, linguistics, old-world anthropology, and ancient and medieval art, history, and philosophy .....

**Other Major hours:** ..... 33

#### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** ..... 120

\*Course used towards completion of a USP or College Requirement.

### Bachelor of Science with a major in CLASSICS

#### 120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a CLA prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Premajor Requirements*)  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities (*completed by Major Requirements*)  
 IX. Cross-Cultural (*choose a Social Science course*) ..... 3  
 X. Electives (*choose two Natural Science courses*) .. 6

**USP hours:** ..... 30-39

**College Requirements**

I. Foreign Language (*completed by Major Requirements*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*completed by USP Cross-Cultural Requirement*)  
 c. Humanities (*completed by Major Requirements*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6

**College Requirement hours:** ..... 7

**Premajor Requirements**

\*CLA 101 and 102 Elementary Latin or  
 \*CLA 151 and 152 Elementary Greek ..... 8

**Premajor hours:** ..... 8

**Major Requirements**

**Major Core Requirements**  
 \*CLA 210 The Art of Greece and Rome ..... 3  
 \*CLA 229 The Ancient Near East and Greece to the Death of Alexander the Great ..... 3  
 \*CLA 230 The Hellenistic World and Rome to the Death of Constantine ..... 3  
 \*CLA 261 Literary Masterpieces of Greece and Rome ..... 3  
 \*CLA 580 Independent Work in Classics ..... 3

**Major Core hours:** ..... 15

**Other Course Work Required for the Major**

**From the Major Department:**  
**Language Courses** ..... 6  
 Choose either CLA 201 and 202 or CLA 251 and 252

**Latin/Greek/Classical Civilization Option** ..... 12  
 Choose at least 12 hours of language courses at the 300-level or above in the area of study.

**From Outside the Major Department**  
 Choose 15 hours outside Classics at the 200+ level (courses used to satisfy USP and College Requirements can also be counted here). Courses are typically selected from such areas of study as biblical literature, linguistics, old-world anthropology, and ancient and medieval art, history, and philosophy ..... 15

**Other Major hours:** ..... 33

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 18

**Total Minimum Hours Required for Degree** ..... 120

\*Course used towards completion of a USP or College Requirement.

**Teacher Certification Requirements**

Students who wish to teach Latin in secondary school must also meet the certification requirements outlined in the *College of Education* section of this Bulletin.

**Minor Requirements**

The requirements for a classics minor are 18 credit hours, at least six of which must be at the 300 level or above, earned from among the following courses:

1. Greek and Latin courses at any level.
2. Non-language courses taught by the division that are numbered 200 or higher.

All courses may be chosen from category 1, all from category 2, or the two categories may be combined in any manner, as long as students earn the requisite 18 credit hours.

**FRENCH AND ITALIAN**

As a branch of the liberal arts curriculum, the Division of French and Italian has as one of its fundamental aims to broaden and deepen the student’s acquaintance with the French- and Italian-speaking worlds through the medium of their language and literature.

**Bachelor of Arts with a major in FRENCH**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Premajor Requirement*)  
 III. Inference–Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication ..... 3  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities ..... 6  
 IX. Cross-Cultural (*choose a 300+ level Social Science course*) ..... 3  
 X. Electives (*choose two Natural Science courses*) .. 6

**USP hours:** ..... 36-45

**College Requirements**

I. Foreign Language (*completed by Premajor Requirement*)  
 II. Disciplinary Requirements  
 a. Natural Science (*completed by USP Elective Requirement*)  
 b. Social Science (*partially completed by USP Cross-Cultural Requirement*) ..... 3  
 c. Humanities (*completed by Major Requirements*)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6

**College Requirement hours:** ..... 10

**Premajor Requirements**

^FR 204 French Culture: Readings and Conversation ..... 3  
 FR 304 Intermediate French Literature I ..... 3  
 FR 305 Intermediate French Literature II ..... 3

**Premajor hours:** ..... 9

**Major Requirements**

**Major Core Requirements**  
 FR 306 Intermediate French Composition ..... 3  
 FR 312 French Conversation I ..... 3  
 FR 350 Cultural Profiles of France ..... 3  
 FR 470G Studies in French Literature ..... 3  
 FR 495 Senior Paper ..... 1

**Major Core hours:** ..... 13

**Other Course Work Required for the Major**

**From the Major Department:**  
**French Options** ..... 9

**Option 1** – Language/Culture: FR 310, FR 406, and one additional FR course at the 300+ level (excluding FR 300, FR 553, and courses in translation)

**Option 2** – Literature/Culture: choose three French literature courses at the 400+ level

**Option 3** – French Topical Studies: choose nine hours with the Director of Undergraduate Studies to create an individual program for special needs or interests

**French Electives** ..... 0-6

**From Outside the Major Department**

Choose 14-20 hours outside French at the 300+ level. Courses are generally selected from the following areas: anthropology, architecture, art history, economics, English, German, Greek, geography, history, Italian, Japanese, Latin, linguistics, music history, philosophy, political science, religious studies, Russian, sociology, Spanish, theatre, or other disciplines approved by the Director of Undergraduate Studies ..... 14-20

**Other Major hours:** ..... 29

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 14

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in FRENCH**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with an FR prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (*completed by Premajor Requirement*)  
 III. Inference–Logic ..... 3-6

IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a Social Science course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>36-45</b>

## College Requirements

I. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by USP Cross-Cultural Requirement</i> ) .....	
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>7</b>

## Premajor Requirements

^FR 204 French Culture: Readings and Conversation .....	3
FR 304 Intermediate French Literature I .....	3
FR 305 Intermediate French Literature II .....	3
<b>Premajor hours:</b> .....	<b>9</b>

## Major Requirements

<b>Major Core Requirements</b>	
FR 306 Intermediate French Composition .....	3
FR 312 French Conversation I .....	3
FR 350 Cultural Profiles of France .....	3
FR 470G Studies in French Literature .....	3
FR 495 Senior Paper .....	1
<b>Major Core hours:</b> .....	<b>13</b>

## Other Course Work Required for the Major

<b>From the Major Department:</b>	
<b>French Options</b> .....	<b>9</b>
<b>Option 1</b> – Language/Culture: FR 310, FR 406, and one additional FR course at the 300+ level (excluding FR 300, FR 553, and courses in translation)	

**Option 2** – Literature/Culture: choose three French literature courses at the 400+ level

**Option 3** – French Topical Studies: choose nine hours with the Director of Undergraduate Studies to create an individual program for special needs or interests

French Electives .....	0-6
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## From Outside the Major Department

Choose 14-20 hours outside French at the 200+ level. Courses are generally selected from the following areas: anthropology, architecture, art history, economics, English, German, Greek, geography, history, Italian, Japanese, Latin, linguistics, music history, philosophy, political science, religious studies, Russian, sociology, Spanish, theatre, or other disciplines approved by the Director of Undergraduate Studies .....

**Other Major hours:** .....

## Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** .....

^Course used towards completion of a USP Requirement.

## Teacher Certification Requirements

The requirements for teacher certification in secondary foreign languages are outlined in the *College of Education* section of this Bulletin.

## Minor in French

The minor in French consists of a minimum of 18 hours in French language and literature courses beyond FR 202 and excluding FR 553 and literature courses in translation.

FR 203 Elementary French Conversation and Composition .....	3
FR 204 French Culture: Readings and Conversation .....	3
FR 306 Intermediate French Composition .....	3

Three courses at the 300, 400, or 500 level (excluding FR 553 and courses in translation).

## GERMAN STUDIES

The primary aims of the Division of German Studies are to help students develop their German language skills and gain an understanding of the literature and culture of the German-speaking countries. Students majoring in German earn the Bachelor of Arts or Bachelor of Science degree. For more information, visit the Division of German Studies on the Web at: [www.uky.edu/AS/German/](http://www.uky.edu/AS/German/).

## Bachelor of Arts with a major in GERMAN

### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication ( <i>completed by Premajor and Major Requirements</i> ) .....	6
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Social Sciences course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>33-42</b>

### College Requirements

I. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>10</b>

## Premajor Requirements

^GER 202 Intermediate German .....	3
GER 205 Reading and Writing Practice .....	2
*GER 206 Oral Practice .....	2
<b>Premajor hours:</b> .....	<b>7</b>

## Major Requirements

### Major Core Requirements

*GER 307 Intermediate German Composition and Conversation I .....	3
GER 308 Intermediate German Composition and Conversation II .....	3
GER 311 Introduction to German Literature: Themes ..	3
GER 312 Introduction to German Literature: Popular Forms .....	3
<b>Major Core hours:</b> .....	<b>12</b>

### Other Course Work Required for the Major

**From the Major Department:** .....

Choose 12-15 hours of German courses to be selected from GER 310, 315, 317, 319, 361, 415G, 416G, 420G and 507; upon consultation with the advisor, certain 500-level courses may be substituted for two of these; GER 415G, 416G and 420G may be repeated once.

### From Outside the Major Department

Choose 15-18 hours outside German at the 300+ level from the following areas: anthropology, art history, comparative literature, economics, English, French, Greek, geography, history, Italian, Japanese, Latin, linguistics, music, philosophy, political science, religious studies, Russian, sociology, Spanish, theatre, and women's studies. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

## Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** .....

^Course used towards completion of a USP Requirement.

\*GER 206 + GER 307 satisfy the USP Oral Communication Requirement.

## Bachelor of Science with a major in GERMAN

### 120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a GER prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication ( <i>completed by Premajor and Major Requirements</i> ) .....	6
VI. Natural Sciences .....	6
VII. Social Sciences .....	6

VIII. Humanities ..... 6  
 IX. Cross-Cultural (choose a Social Science course) ..... 3  
 X. Electives (choose two Natural Science courses) .. 6  
**USP hours:** ..... 33-42

**College Requirements**

I. Foreign Language (completed by Premajor Requirement)  
 II. Disciplinary Requirements  
     a. Natural Science (completed by USP Elective Requirement)  
     b. Social Science (completed by USP Cross-Cultural Requirement)  
     c. Humanities (completed by Major Requirements)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6  
**College Requirement hours:** ..... 7

**Premajor Requirements**

^GER 202 Intermediate German ..... 3  
 GER 205 Reading and Writing Practice ..... 2  
 \*GER 206 Oral Practice ..... 2  
**Premajor hours:** ..... 7

**Major Requirements**

**Major Core Requirements**  
 \*GER 307 Intermediate German Composition and Conversation I ..... 3  
 GER 308 Intermediate German Composition and Conversation II ..... 3  
 GER 311 Introduction to German Literature: Themes ..... 3  
 GER 312 Introduction to German Literature: Popular Forms ..... 3  
**Major Core hours:** ..... 12

**Other Course Work Required for the Major**

**From the Major Department:** ..... 12-15  
 Choose 12-15 hours of German courses to be selected from GER 310, 315, 317, 319, 361, 415G, 416G, 420G and 507; upon consultation with the advisor, certain 500-level courses may be substituted for two of these; GER 415G, 416G and 420G may be repeated once.

**From Outside the Major Department**  
 Choose 15-18 hours outside German at the 200+ level from the following areas: anthropology, art history, comparative literature, economics, English, French, Greek, geography, history, Italian, Japanese, Latin, linguistics, music, philosophy, political science, religious studies, Russian, sociology, Spanish, theatre, and women's studies. 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 15-18  
**Other Major hours:** ..... 30

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 22

**Total Minimum Hours Required for Degree** ..... 120

^Course used towards completion of a USP Requirement.

\*GER 206 + GER 307 satisfy the USP Oral Communication Requirement.

**Teacher Certification Requirements**

The requirements for teacher certification in secondary foreign language teaching are outlined in the *College of Education* section of this Bulletin.

**Minor in German**

The minor in German Studies consists of a minimum of 19 hours in German language, culture, and literature courses in addition to the proficiency level gained by completion of GER 202. This level may be documented either by completing the relevant sequence of courses or by placement exam.

**Required courses include:**

GER 205 Reading and Writing Practice ..... 2  
 GER 206 Oral Practice ..... 2  
**and**  
 Course work at the 300 level or above, including GER 307/308 ..... 15

**RUSSIAN AND EASTERN STUDIES**

The Division of Russian and Eastern Studies offers language courses in Arabic, Chinese, Hebrew, Japanese and Russian, as well as related literature and culture courses.

**Russian and Eastern Studies**

The Division of Russian and Eastern Studies offers an undergraduate major in Russian Studies. The program is designed to produce an integrated knowledge of Russian language, literature, culture, history, politics, and society. This interdisciplinary major provides the broadest possible base for further study of the former Soviet Union.

**Bachelor of Arts with a major in RUSSIAN STUDIES**

**123 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ..... 0-3  
 II. Foreign Language (completed by Premajor Requirement)  
 III. Inference-Logic ..... 3-6  
 IV. Written Communication ..... 3-6  
 V. Oral Communication^ (partially completed by Major Requirement) ..... 1  
 VI. Natural Sciences ..... 6  
 VII. Social Sciences ..... 6  
 VIII. Humanities (completed by Major Requirements)  
 IX. Cross-Cultural (completed by Premajor Requirement)  
 X. Electives (choose two Natural Science courses) ... 6  
**USP hours:** ..... 28-37

**College Requirements**

I. Foreign Language (completed by Premajor Requirement)  
 II. Disciplinary Requirements  
     a. Natural Science (completed by USP Elective Requirement)

b. Social Science (partially completed by Major Requirement) ..... 3  
 c. Humanities (completed by Major Requirements)  
 III. Laboratory or Field Work ..... 1  
 IV. Electives ..... 6

**College Requirement hours:** ..... 10

**Premajor Requirements**

\*RAE 202 Intermediate Russian II ..... 4  
 \*RAE 270 Introduction to Russian Culture  
**or**  
 \*RAE 280 Introduction to Modern Russian Culture . 3  
**Premajor hours:** ..... 7

**Major Requirements**

**Major Core Requirements**  
 \*HIS 385 History of Russia to 1825 ..... 3  
 \*HIS 386 History of Russian Since 1825 ..... 3  
 RAE 380 Survey of 19th Century Russian Literature ..... 3  
 RAE 390 Modern Russian Literature ..... 3  
 RAE 303/304 Russian Pronunciation and Conversation ..... 6  
 RAE 305/306 Advanced Russian Grammar ..... 6  
 ^RAE 401 Seminar in Russian and East European Studies ..... 3  
**Major Core hours:** ..... 27

**Other Course Work Required for the Major From the Major Department:**

**Social Science** ..... 3  
 Choose from ECO 465G, GEO 329, PS 429G, 491, 539

**Language Elective** ..... 3-6  
 Choose any 400+ level Russian language course or, with the approval of the Director of Undergraduate Studies, two semesters of another language of the former U.S.S.R or Eastern Europe

**Related Electives** ..... 10-13  
 Choose additional courses as needed from either the RAE courses or other related area courses

**From Outside the Major Department**

Choose six hours outside Russian and East European Studies at the 300+ level. Courses used to satisfy USP and College requirements can also be counted here .... 6

**Other Major hours:** ..... 25

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 14

**Total Minimum Hours Required for Degree** ..... 123

\*Course used towards completion of a USP Requirement.  
 ^COM 199 + RAE 401 satisfy the USP Oral Communication Requirement.

**Bachelor of Science with a major in RUSSIAN STUDIES**

**123 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with RAE and HIS prefixes are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-

hour requirement, on page 96.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
III. Inference–Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication <sup>^</sup> ( <i>partially completed by Major Requirement</i> ) .....	1
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities ( <i>completed by Major Requirements</i> ) .....	6
IX. Cross-Cultural ( <i>completed by Premajor Requirement</i> ) .....	
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>28-37</b>

### College Requirements

I. Foreign Language ( <i>completed by Premajor Requirement</i> ) .....	
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by Major Requirement</i> ) .....	
c. Humanities ( <i>completed by Major Requirement</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>7</b>

### Premajor Requirements

*RAE 202 Intermediate Russian II .....	4
*RAE 270 Introduction to Russian Culture or *RAE 280 Introduction to Modern Russian Culture ..	3
<b>Premajor hours:</b> .....	<b>7</b>

### Major Requirements

<b>Major Core Requirements</b>	
*HIS 385 History of Russia to 1825 .....	3
*HIS 386 History of Russian Since 1825 .....	3
RAE 380 Survey of 19th Century Russian Literature .....	3
RAE 390 Modern Russian Literature .....	3
RAE 303/304 Russian Pronunciation and Conversation .....	6
RAE 305/306 Advanced Russian Grammar .....	6
<sup>^</sup> RAE 401 Seminar in Russian and East European Studies .....	3
<b>Major Core hours:</b> .....	<b>27</b>

### Other Course Work Required for the Major

#### From the Major Department:

<b>Social Science</b> .....	3
Choose from ECO 465G, GEO 329, PS 429G, 491, 539	

<b>Language Elective</b> .....	3-6
Choose any 400+ level Russian language course or, with the approval of the Director of Undergraduate Studies, two semesters of another language of the former U.S.S.R or Eastern Europe	

<b>Related Electives</b> .....	10-13
Choose additional courses as needed from either the RAE courses or other related area courses	

#### From Outside the Major Department

Choose six hours outside Russian and East European Studies at the 200+ level. Courses used to satisfy USP and College requirements can also be counted here .... 6

**Other Major hours:** .....

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

### Total Minimum Hours Required for Degree .....

\*Course used towards completion of a USP or College Requirement.  
<sup>^</sup>COM 199 + RAE 401 satisfy the USP Oral Communication Requirement.

### Minor in Russian

The minor in Russian consists of a minimum of 18 hours beyond second-year proficiency in Russian language (RAE 202) distributed as follows:

RAE 303 Russian Pronunciation and Conversation .....	3
or RAE 304 Russian Pronunciation and Conversation .....	3
and RAE 305 Advanced Russian Grammar .....	3
or RAE 306 Advanced Russian Grammar .....	3

and 12 hours of additional course work in designated Russian area studies courses, of which at least 9 hours must be in RAE courses.

**Note:** RAE 395, Independent Work in Russian, may not be used for the minor.

## PHILOSOPHY

Philosophy encourages critical and systematic inquiry into fundamental questions of right and wrong, truth and falsehood, the meaning of life, and the nature of reality, knowledge, and society. More than any other discipline, philosophy explores the core issues of the Western intellectual tradition. With its emphasis on reason and argumentation, a philosophy major is an excellent preparation for a career in law or business.

### Bachelor of Arts with a major in PHILOSOPHY

#### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

### University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) <sup>^</sup> .....	0-8
III. Inference–Logic ( <i>partially completed by Major Requirement</i> ) .....	3
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities ( <i>completed by Premajor Requirements</i> ) .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Social Science course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) .....	6
<b>USP hours:</b> .....	<b>30-44</b>

### College Requirements

I. Foreign Language ( <i>placement exam recommended</i> ) <sup>^</sup> .....	0-6
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### II. Disciplinary Requirements

a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
c. Humanities ( <i>completed by Major Requirements</i> ) .....	3
III. Laboratory or Field Work .....	1
IV. Electives .....	6

**College Requirement hours:** .....

### Premajor Requirements

*PHI 260 History of Philosophy I: from Greek Beginnings to the Middle Ages .....	3
*PHI 270 History of Philosophy II: from the Renaissance to the Present Era .....	3
<b>Premajor hours:</b> .....	<b>6</b>

### Major Requirements

#### Major Core Requirements

*PHI 320 Symbolic Logic I .....	3
<b>Major Core hours:</b> .....	<b>3</b>

### Other Course Work Required for the Major

#### From the Major Department:

Choose 12 hours of PHI 500+ level courses with at least one course from each group below .....

**Group A:** PHI 503, 504, 506, 509, 513, 514, 515, 516, 517, 519, 540

**Group B:** PHI 530, 531, 535, 537, 545, 592

**Group C:** PHI 520, 550, 560, 561, 562, 565, 570, 575

Choose 6-12 hours from any of the group courses listed above or the following: PHI 251, 305, 310, 317, 330, 335, 337, 340, 343, 350, 361, 520, 540 .....

#### From Outside the Major Department

Choose 15-21 hours outside Philosophy at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

### Electives

Choose electives to lead to the minimum total of 120 hours required for graduation .....

### Total Minimum Hours Required for Degree .....

\*Course used towards completion of a USP Requirement.

<sup>^</sup>French or German is highly recommended to complete the USP and College foreign language requirements. Greek is recommended if the student plans to concentrate on ancient philosophy. Latin is recommended if the student plans to concentrate on medieval philosophy.

### Bachelor of Science with a major in PHILOSOPHY

#### 120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a PHI prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) <sup>^</sup> .....	0-8
III. Inference–Logic ( <i>partially completed by Major Requirement</i> ) .....	3
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences .....	6
VIII. Humanities ( <i>completed by Premajor Requirements</i> ) .....	6
IX. Cross-Cultural ( <i>choose a Social Science course</i> ) ..	6
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6
<b>USP hours:</b> .....	<b>30-44</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) <sup>^</sup> .....	0-6
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by USP Cross-Cultural Requirement</i> ) .....	
c. Humanities ( <i>completed by Major Requirements</i> ) .....	
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>7-13</b>

**Premajor Requirements**

*PHI 260 History of Philosophy I: from Greek Beginnings to the Middle Ages .....	3
*PHI 270 History of Philosophy II: from the Renaissance to the Present Era .....	3
<b>Premajor hours:</b> .....	<b>6</b>

**Major Requirements**

<b>Major Core Requirements</b>	
*PHI 320 Symbolic Logic I .....	3
<b>Major Core hours:</b> .....	<b>3</b>

**Other Course Work Required for the Major****From the Major Department:**

Choose 12 hours of 500+ level PHI courses with at least one course from each group below .....

**Group A:** PHI 503, 504, 506, 509, 513, 514, 515, 516, 517, 519, 540

**Group B:** PHI 530, 531, 535, 537, 545, 592

**Group C:** PHI 520, 550, 560, 561, 562, 565, 570, 575

Choose 6-12 hours from any of the group courses listed above or the following: PHI 251, 305, 310, 317, 330, 335, 337, 340, 343, 350, 361, 520, 540 .....

**From Outside the Major Department**

Choose 15-21 hours outside Philosophy at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation .....

**Total Minimum Hours Required for Degree** .....

<sup>\*</sup>Course used towards completion of a USP Requirement.

<sup>^</sup>French or German is highly recommended to complete the USP and College foreign language requirements. Greek is recommended if the student plans to concentrate on ancient philosophy. Latin is recommended if the student plans to concentrate on medieval philosophy.

**Minor in Philosophy**

The minor in philosophy requires a minimum of 18 hours of course work to include the following:

- No more than two 100-level courses
- At least one course in logic (PHI 120, PHI 320, or PHI 520)
- At least one course in the history of philosophy (PHI 260, PHI 270, or any course from Group A of the undergraduate curriculum)
- At least three courses (nine hours) at the 300 level or above, excluding PHI 320 and PHI 399.

**PHYSICS AND ASTRONOMY**

The Department of Physics and Astronomy helps many students acquire a general understanding and appreciation of physics and astronomy. In the liberal arts tradition, the undergraduate curriculum is complete and flexible enough to allow a graduate with a major in physics to pursue a variety of careers. Many of our graduates continue their studies with graduate work in physics or other areas.

For the student interested in combining the study of physics with studies in other areas, the department can assist in the planning of an individual curriculum which meets **both** the minimum requirements of the Physics program and the student's needs and interests. Such planning is of particular value to students intending to pursue careers in engineering, applied physics, medicine, radiation medicine, biophysics, law, meteorology, oceanography, geophysics, environmental sciences, management, or the teaching of physics and/or physical science at the junior and senior high school levels. By working closely with an advisor, the student with special interests can take advantage of the opportunity to take several other courses from one or more departments outside physics, or double major in physics and another area. For a description of suggested curricula, visit our Web site at: [www.pauky.edu/undergrad/curricula.html](http://www.pauky.edu/undergrad/curricula.html).

**Bachelor of Arts with a major in PHYSICS****121 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math ( <i>completed by Premajor Requirement</i> ) .....	
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference–Logic ( <i>completed by Premajor Requirement</i> ) .....	
IV. Written Communication .....	3-6
V. Oral Communication .....	3

VI. Natural Sciences ( <i>completed by Premajor Requirement</i> ) .....	6
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level PHI course</i> ) .....	3
X. Electives ( <i>choose 300+ level Social Science courses</i> ) .....	6
<b>USP hours:</b> .....	<b>27-38</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by Premajor Requirements</i> ) .....	
b. Social Science ( <i>completed by USP Elective Requirement</i> ) .....	
c. Humanities ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
III. Laboratory or Field Work ( <i>completed by Premajor Requirement</i> ) .....	6
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>9-17</b>

**Premajor Requirements**

*PHY 231/232/241/242 General University Physics and Laboratory .....	10
<b>or with permission of the Director of Undergraduate Studies:</b>	
PHY 211/213 General Physics .....	(10)
PHY 228 Optics, Relativity and Thermal Physics .....	3
CHE 105 General College Chemistry I .....	3
CHE 107 General College Chemistry II .....	3
*MA 113 Calculus I .....	4
MA 114 Calculus II .....	4
<b>Premajor hours:</b> .....	<b>27</b>

**Major Requirements**

<b>Major Core Requirements</b>	
PHY 306 Theoretical Methods of Physics .....	3
PHY 361 Principles of Modern Physics .....	3
PHY 404G Mechanics .....	3
PHY 416G Electricity and Magnetism .....	3
PHY 520 Introduction to Quantum Mechanics .....	3
MA 213 Calculus III .....	4
MA 214 Calculus IV .....	3
<b>Major Core hours:</b> .....	<b>22</b>

**Other Course Work Required for the Major****From the Major Department:**

Choose 3-6 hours to include at least one of the following laboratory courses: PHY 402G, 422, 530, 535, 545 .....

**From Outside the Major Department**

Choose 11-14 hours outside Physics at the 300+ level. Courses are generally chosen from computer science, engineering, mathematics, philosophy, or statistics. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

**Total Minimum Hours Required for Degree** .....

<sup>\*</sup>Course used towards completion of a USP Requirement.

**Suggested Curriculum for B.A. in Physics**

As you plan your physics studies, please note that upper division physics courses, PHY 3XX and all higher numbered courses, are offered once per year in the semester indicated on the suggested curricula. For example, PHY 306 and PHY 361 are offered in the spring semester only.

**Freshman Year**

<b>First Semester</b>	<b>Hours</b>
PHY 231 General University Physics .....	4
PHY 241 General University Physics Laboratory ....	1
MA 113 Calculus I <b>or</b>	
MA 114 Calculus II .....	4
ENG 101 Writing I .....	3
University Studies .....	3
<b>Second Semester</b>	
PHY 228 Optics, Relativity and Thermal Physics .....	3
MA 114 Calculus II <b>or</b>	
*MA 213 Calculus III .....	4
CHE 105 General College Chemistry I .....	3
ENG 102 Writing II .....	3
University Studies .....	3

**Sophomore Year**

<b>First Semester</b>	<b>Hours</b>
PHY 232 General University Physics .....	4
PHY 242 General University Physics Laboratory ....	1
*MA 213 Calculus III <b>or</b>	
*MA 214 Calculus IV .....	3-4
PHY 335 Data Analysis for Physicists .....	1
CHE 107 General College Chemistry II .....	3
Foreign Language .....	4
<b>Second Semester</b>	
PHY 306 Theoretical Methods of Physics .....	3
PHY 361 Principles of Modern Physics .....	3
*MA 214 Calculus IV <b>or</b>	
AST 310 Topics in Astronomy and Astrophysics (Subtitle required) <b>or</b>	
*CS 115 Introduction to Computer Programming .....	3
Foreign Language .....	4

**Junior Year**

<b>First Semester</b>	<b>Hours</b>
PHY 404G Mechanics .....	3
PHY 402G Electronic Instrumentation and Measurements .....	3
*MA 322 Matrix Algebra and Its Applications .....	3
**Humanities .....	3
Foreign Language .....	3
<b>Second Semester</b>	
PHY 520 Introduction to Quantum Mechanics .....	3
AST 310 Topics in Astronomy and Astrophysics (Subtitle required) <b>or</b>	
*CS 115 Introduction to Computer Programming .....	3
COM 181 Basic Public Speaking .....	3
Foreign Language .....	3
**Social Science .....	3
**Humanities .....	3

**Senior Year**

<b>First Semester</b>	<b>Hours</b>
PHY 416G Electricity and Magnetism .....	3
PHY 554 Fundamentals of Atomic Physics <b>or</b>	
PHY 591 Astrophysics I – Stars <b>or</b>	
PHY 592 Astrophysics II – Galaxies and Interstellar Material .....	3
**Social Science .....	3
University Studies .....	6
*Elective .....	3
<b>Second Semester</b>	
PHY 524 Solid State Physics <b>or</b>	
PHY 530 Experimental Physics: Optics and Spectroscopy <b>or</b>	
PHY 535 Experimental Physics: Atomic and Nuclear <b>or</b>	

PHY 555 Fundamental Nuclear Physics <b>or</b>	
PHY 556 Fundamental Particle Physics .....	2-3
Foreign Language (if needed) .....	3
University Studies (if needed) .....	6
Elective .....	3

\*A total of 14 credit hours in math, computer science, chemistry, engineering or other areas related to physics but outside the department must be completed to satisfy the college requirement. A total of 42 hours in physics and related areas must be taken to satisfy the major requirement.

\*\*The Bachelor of Arts requires the completion of six additional hours in humanities and social sciences beyond those required for University Studies. It also requires the completion of 39 hours at or above the 300 level.

**Bachelor of Science with a major in PHYSICS****120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

I. Math ( <i>completed by Premajor Requirement</i> )	
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference–Logic ( <i>completed by Premajor Requirement</i> )	
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences ( <i>completed by Premajor Requirement</i> )	
VII. Social Sciences .....	6
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a Social Science course</i> ) .....	3
X. Electives ( <i>choose a Humanities course</i> ) .....	3
<b>USP hours:</b> .....	<b>24-35</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by Premajor Requirements</i> )	
b. Social Science ( <i>completed by USP Cross-Cultural Requirement</i> )	
c. Humanities ( <i>completed by USP Elective Requirement</i> )	
III. Laboratory or Field Work ( <i>completed by Premajor Requirement</i> )	
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>6-14</b>

**Premajor Requirements**

*PHY 231/232/241/242 General University Physics and Laboratory .....	10
<b>or with permission of the Director of Undergraduate Studies:</b>	
PHY 211/213 General Physics .....	(10)
PHY 228 Optics, Relativity and Thermal Physics .....	3
CHE 105 General College Chemistry I .....	3
CHE 107 General College Chemistry II .....	3
*MA 113 Calculus I .....	4
MA 114 Calculus II .....	4
<b>Premajor hours:</b> .....	<b>27</b>

**Major Requirements****Major Core Requirements**

PHY 306 Theoretical Methods of Physics .....	3
PHY 335 Data Analysis for Physicists .....	1
PHY 361 Principles of Modern Physics .....	3
PHY 404G Mechanics .....	3
PHY 416G/417G Electricity and Magnetism .....	6
PHY 520 Introduction to Quantum Mechanics .....	3
PHY 535 Experimental Physics:	
Atomic and Nuclear .....	2
MA 213 Calculus III .....	4
MA 214 Calculus IV .....	3
<b>Major Core hours:</b> .....	<b>28</b>

**Other Course Work Required for the Major****From the Major Department:**

Choose one of the following: PHY 522, 524, 554, 555, 556, AST 591, 592 .....

Choose two lab courses from the following: AST/PHY 395, PHY 402G, 422, 530 .....

**From Outside the Major Department**

Choose seven hours outside Physics at the 200+ level. Courses are generally chosen from computer science, engineering, mathematics, or statistics. 200+ level courses used to satisfy USP and College requirements can also be counted here .....

**Other Major hours:** .....

**Total Minimum Hours**

**Required for Degree** .....

\*Course used towards completion of a USP Requirement.

**Suggested Curriculum for B.S. in Physics**

(NOTE: Students who have completed calculus or chemistry should visit our Web site at: [www.pa.uky.edu/undergrad/curricula.html](http://www.pa.uky.edu/undergrad/curricula.html) for suggested curriculum.)

As you plan your physics studies, please note that upper division physics courses, PHY 3XX and all higher numbered courses, are offered once per year in the semester indicated on the suggested curricula. For example, PHY 335 and PHY 361 are offered in the spring semester only.

**Freshman Year**

<b>First Semester</b>	<b>Hours</b>
PHY 231 General University Physics .....	4
PHY 241 General University Physics Laboratory ....	1
MA 113 Calculus I <b>or</b>	
MA 114 Calculus II .....	4
ENG 101 Writing I .....	3
University Studies .....	3

**Second Semester**

PHY 228 Optics, Relativity and Thermal Physics .....	3
MA 114 Calculus II <b>or</b>	
MA 213 Calculus III .....	4
CHE 105 General College Chemistry I .....	3
ENG 102 Writing II .....	3
University Studies .....	3

**Sophomore Year**

<b>First Semester</b>	<b>Hours</b>
PHY 232 General University Physics .....	4
PHY 242 General University Physics Laboratory ....	1
MA 213 Calculus III <b>or</b>	
*MA 214 Calculus IV .....	3
PHY 335 Data Analysis for Physicists .....	1
CHE 107 General College Chemistry II .....	3
Foreign Language .....	4

**Second Semester**

PHY 306 Theoretical Methods of Physics .....	3
PHY 361 Principles of Modern Physics .....	3
MA 214 Calculus IV <b>or</b>	
AST 310 Topics in Astronomy and Astrophysics (Subtitle required) <b>or</b>	
*CS 115 Introduction to Computer Programming .....	3
Foreign Language .....	4

**Junior Year**

First Semester	Hours
PHY 404G Mechanics .....	3
PHY 416G Electricity and Magnetism .....	3
PHY 402G Electronic Instrumentation and Measurements .....	3
*MA 322 Matrix Algebra and Its Applications .....	3
Foreign Language .....	3

**Second Semester**

PHY 417G Electricity and Magnetism .....	3
PHY 520 Introduction to Quantum Mechanics .....	3
PHY 535 Experimental Physics: Atomic and Nuclear	2
Foreign Language .....	3
COM 181 Basic Public Speaking .....	3

**Senior Year**

First Semester	Hours
PHY 522 Thermodynamics and Statistical Physics ...	3
PHY 530 Experimental Physics: Optics and Spectroscopy .....	2
PHY 554 Fundamentals of Atomic Physics <b>or</b>	
PHY 591 Astrophysics I – Stars <b>or</b>	
PHY 592 Astrophysics II – Galaxies and Interstellar Material .....	3
Elective .....	3
University Studies .....	3

**Second Semester**

PHY 524 Solid State Physics <b>or</b>	
PHY 555 Fundamental Nuclear Physics <b>or</b>	
PHY 556 Fundamental Particle Physics .....	3
Humanities and Social Sciences .....	6
Elective .....	3
University Studies (if needed) .....	3

\*A total of 14 credit hours in math, computer science, chemistry, engineering or other areas related to physics but outside the department must be completed to satisfy the college requirement. One-hundred-level freshman courses may not be counted for the major requirements except for CS 115 which may be counted.

**Minor in Physics**

MA 113, 114, and 213; or equivalent .....	12
PHY 211/213 or PHY 231/232/241/242 .....	10
PHY 361 .....	3

At least eight credits chosen from the following:  
PHY 402G, 404G, 416G, 417G, 472G, 504, 508, 520, 522, 524, 525, 530, 535, 545, 546, 554, 555, 556, and 567 and 591.

**Astronomy Concentration**

An astronomer seeks to understand the Universe by making measurements of the radiation from cosmic objects and applying the laws of physics to them. Consequently, the talents and abilities needed for astronomy are similar to those required for a career in physics. A prospective astronomer should be skilled in physics and mathematics, should have an intense curiosity about natural phenomena, and should be interested in understanding these phenomena in an exact and quantitative way.

For students with an interest in astronomy, this department offers the B.S. degree in physics with a concentration in astronomy. Among the major requirements, AST/PHY 591 Astrophysics I – Stars and AST/PHY 592, Astrophysics II – Galaxies and Interstellar Material are strongly recommended as courses within the area of concentration. AST 395, Independent Work in Astronomy, may be substituted for one of the laboratory courses of Requirement Three, subject to the work being done in astronomy and astrophysics. Students are encouraged, though not required, to enroll in AST 191, The Solar System, and AST 192, Stars, Galaxies and the Universe.

**POLITICAL SCIENCE**

Political Science focuses on the manner by which values and resources are authoritatively allocated in societies and in international relations. In addition to providing a good liberal arts preparation, the discipline is particularly helpful in preparing for careers such as law, government administration, diplomatic service, public planning, policy analysis, journalism, political activity and the like. Also, the department’s courses provide the necessary background and skills for pursuing graduate work in political science and related fields.

Political Science courses at UK cover a wide range of topics, e.g., classic and modern political theory; the governments of foreign nations; international law and organizations; relations between different countries; public opinion, political parties, campaigns and electoral behavior; public policy in the U.S. and other countries; the functioning of legislative, executive and judicial institutions; state government; and urban politics. Students may also take special reading courses and be placed in internships through the department.

Political Science courses are designed not only to convey information to students, but to develop their skills in analyzing political arguments and in resolving political and governmental policy questions.

**Bachelor of Arts with a major in POLITICAL SCIENCE**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6

V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>can be completed by Premajor Requirement</i> ) .....	6
X. Electives ( <i>choose two Natural Science courses</i> ) .....	6
<b>USP hours:</b> .....	<b>30-47</b>

**College Requirements**

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	6
b. Social Science ( <i>completed by Premajor Requirements</i> ) .....	6
c. Humanities ( <i>choose 300+ level courses</i> ) .....	6
III. Laboratory or Field Work ( <i>can be completed by Premajor Requirement</i> ) .....	6
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>12-20</b>

**Premajor Requirements**

*PS 101 American Government .....	3
PS 202 Orientation to Political Science .....	1
<b>plus two of the following:</b>	
PS 210 Introduction to European Politics: East and West	
<b>or</b>	
*PS 212 Culture and Politics in the Third World	
PS 235 World Politics	
PS 240 Ideology, Political Change, and Contemporary Industrial Society	
*PS 245 Introduction to Political Analysis	
PS 255 State Government	
PS 271 Introduction to Political Behavior	
PS 280 Issues in Public Policy .....	6
<b>Premajor hours:</b> .....	<b>10</b>

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

**Area Courses**

At least one course must be taken in each of the areas 1, 2, and 3 listed below and at least one course must be taken in another field; and nine additional hours from the Areas listed below or PS 395, 490, and 491. At least 15 hours must be at the 300+ level.

**Note:** Courses used to satisfy the premajor cannot be used to satisfy the area requirements. .... 21

**Area 1 – Theory and Methodology**

PS 240, 245, 441G, 442G, 545, 549

**Area 2 – Comparative Politics**

PS 210, 212, 411G, 412G, 417G, 419G, 420G, 421G, 427G, 428G, 429G, 538

**Area 3 – International Relations**

PS 235, 430G, 431G, 433G, 436G, 437G, 439G, 532, 538, 539

**Area 4 – Political Process**

PS 271, 470G, 472G, 473G, 474G, 476G, 479, 480G, 571, 584

**Area 5 – Public Administration**

PS 280, 487G, 489G, 580, 584

**Area 6 – Public Law and Judicial Behavior**

PS 461G, 463G, 465G, 467G, 566

**Area 7 – State and Local Politics**

PS 255, 453G, 456G, 557

**Other Courses**

Choose six hours of PS courses (including 1-6 hours of PS 399) or approved courses from outside political science (see list below) ..... 6

**From Outside the Major Department**

Choose 15 hours outside Political Science at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here. The courses must be chosen from the list that follows, or approved by the Director of Undergraduate Studies and must include at least six hours from two different departments ..... 15

- AAS 200, 254, 260, 261, 328, 336, 417G, 431G, 432, 585, 587, 657
- AEC 309, 324, 445G, 471, 479, 532
- ANT – all 200+ level courses
- APP 200
- COM 249, 281, 319, 381, 419, 449, 452, 453, 482, 483, 525
- CS – all 200+ level courses
- ECO – all 200+ level courses
- EPE 301, 555
- FAM 354, 509, 544, 550, 551, 563
- FIN 423, 480
- GEO – all 200+ level courses
- GLY 430
- GER 317, 319
- HIS – all 200+ level courses
- HON 201, 202, 301
- JOU 204, 301, 499, 531, 532
- TEL 319, 320, 453, 510
- LAS 201, 395, 401
- MGT 340, 341, 441, 450
- PHI – all 200+ level courses
- PSY – all 200+ level courses
- RAE 270, 280, 340, 342, 430G
- SOC – all 200+ level courses
- SW 222, 430, 523, 560, 571
- SPA 312, 314, 438G, 512, 513, 514
- STA – all 200+ level courses
- WS 200, 300, 350, 416

**Major hours:** ..... 42

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 1

**Total Minimum Hours Required for Degree** ..... 120

\*Course used towards completion of a USP or College Requirement.

**Bachelor of Science with a major in POLITICAL SCIENCE**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a PS prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math ..... 0-3
- II. Foreign Language (*placement exam recommended*) ..... 0-8
- III. Inference–Logic ..... 3-6

- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences ..... 6
- VII. Social Sciences (*partially completed by Premajor Requirement*) ..... 3
- VIII. Humanities ..... 6
- IX. Cross-Cultural (*can be completed by Premajor Requirement*) ..... 6
- X. Electives (*choose two Natural Science courses*) ..... 6

**USP hours:** ..... 30-47

**College Requirements**

- I. Foreign Language (*placement exam recommended*) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (*completed by USP Elective Requirement*)
  - b. Social Science (*completed by Premajor Requirements*)
  - c. Humanities ..... 3
- III. Laboratory or Field Work (*completed by Premajor Requirement*)
- IV. Electives ..... 6

**College Requirement hours:** ..... 9-17

**Premajor Requirements**

- \*PS 101 American Government ..... 3
- PS 202 Orientation to Political Science ..... 1

plus two of the following:

- PS 210 Introduction to European Politics: East and West
- or
- \*PS 212 Culture and Politics in the Third World
- PS 235 World Politics
- PS 240 Ideology, Political Change, and Contemporary Industrial Society
- \*PS 245 Introduction to Political Analysis
- PS 255 State Government
- PS 271 Introduction to Political Behavior
- PS 280 Issues in Public Policy ..... 6

**Premajor hours:** ..... 10

**Major Requirements**

**Course Work Required for the Major**

**From the Major Department:**

**Area Courses**

At least one course must be taken in each of the areas 1, 2, and 3 listed below and at least one course must be taken in another field; and nine additional hours from the Areas listed below or PS 395, 490, and 491. At least 15 hours must be at the 300+ level.

**Note:** Courses used to satisfy the premajor cannot be used to satisfy the area requirements. .... 21

**Area 1 – Theory and Methodology**

- PS 240, 245, 441G, 442G, 545, 549

**Area 2 – Comparative Politics**

- PS 210, 212, 411G, 412G, 417G, 419G, 420G, 421G, 427G, 428G, 429G, 538

**Area 3 – International Relations**

- PS 235, 430G, 431G, 433G, 436G, 437G, 439G, 532, 538, 539

**Area 4 – Political Process**

- PS 271, 470G, 472G, 473G, 474G, 476G, 479, 480G, 571, 584

**Area 5 – Public Administration**

- PS 280, 487G, 489G, 580, 584

**Area 6 – Public Law and Judicial Behavior**

- PS 461G, 463G, 465G, 467G, 566



**Assistant Professor D. Stephen Voss, Political Science – recipient of the 2003 Great Teacher Award.**

**Area 7 – State and Local Politics**

- PS 255, 453G, 456G, 577

**Other Courses**

Choose 6 hours of PS courses (including 1-6 hours of PS 399) or approved courses from outside political science (see list below) ..... 6

**From Outside the Major Department**

Choose 15 hours outside Political Science at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here. The courses must be chosen from the list that follows, or approved by the Director of Undergraduate Studies and must include at least six hours from two different departments ..... 15

- AAS 200, 254, 260, 261, 328, 336, 417G, 431G, 432, 585, 587, 657
- AEC 309, 324, 445G, 471, 479, 532
- ANT – all 200+ level courses
- APP 200
- COM 249, 281, 319, 381, 419, 449, 452, 453, 482, 483, 525
- CS – all 200+ level courses
- ECO – all 200+ level courses
- EPE 301, 555
- FAM 354, 509, 544, 550, 551, 563
- FIN 423, 480
- GEO – all 200+ level courses
- GLY 430
- GER 317, 319
- HIS – all 200+ level courses
- HON 201, 202, 301
- JOU 204, 301, 499, 531, 532
- TEL 319, 320, 453, 510
- LAS 201, 395, 401
- MGT 340, 341, 441, 450
- PHI – all 200+ level courses
- PSY – all 200+ level courses
- RAE 270, 280, 340, 342, 430G
- SOC – all 200+ level courses
- SW 222, 430, 523, 560, 571
- SPA 312, 314, 438G, 512, 513, 514
- STA – all 200+ level courses
- WS 200, 300, 350, 416

**Major hours:** ..... 42

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 4

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP or College Requirement.

**Minor in Political Science**

The minor in political science requires a prerequisite course (PS 101) and 18 hours of course work at the 200 level or above to be distributed as follows:

1. Six hours of 200 level courses, three hours of which must be either PS 210, PS 212, or PS 235.
2. Four other courses, at least three of which must be at the 400 or 500 level.

**PSYCHOLOGY**

The undergraduate curriculum in psychology includes courses in the major content areas of psychology. The program provides course work emphasizing the fundamental concepts and techniques of this basic behavioral science. In addition to course work, the program provides for experience in conducting and analyzing laboratory and field research.

**Bachelor of Arts with a major in PSYCHOLOGY**

**120 hours (minimum)**

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

**University Studies Program Requirements**

- I. Math ..... 0-3
- II. Foreign Language (*placement exam recommended*) ..... 0-8
- III. Inference–Logic ..... 3-6
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences ..... 6
- VII. Social Sciences (*partially completed by Premajor Requirement*) ..... 3
- VIII. Humanities ..... 6
- IX. Cross-Cultural (*choose a 300+ level Humanities course*) ..... 3
- X. Electives (*choose a 300+ level Humanities course*) ..... 3

**USP hours: ..... 30-47**

**College Requirements**

- I. Foreign Language (*placement exam recommended*) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (*partially completed by PSY 312; and to complete this requirement, consider either PSY 456 as the Advanced Lecture/Lab or PSY 565 as the Capstone Requirement*) ..... 3
  - b. Social Science (*completed by Premajor and Major Requirements*)

- c. Humanities (*completed by USP Cross-Cultural and Elective Requirements*)
  - III. Laboratory or Field Work (*completed by Premajor Requirement*)
  - IV. Electives ..... 6
- College Requirement hours: ..... 9-17**

**Premajor Requirements**

- \*PSY 100 Introduction to Psychology  
or
  - \*PY 110 General Psychology ..... 3-4
  - PSY 195 Orientation to Psychology ..... 1
  - \*PSY 215 Experimental Psychology ..... 4
- Premajor hours: ..... 8-9**

**Major Requirements**

- Major Core Requirements**
- PSY 216 Applications of Statistics in Psychology ... 4
  - PSY 311 Learning and Cognition ..... 3
  - \*PSY 312 Brain and Behavior ..... 3
  - PSY 313 Personality and Individual Differences ..... 3
  - PSY 314 Social Psychology and Cultural Processes 3
- Major Core hours: ..... 16**

**Other Course Work Required for the Major From the Major Department:**

**Advanced Lecture/Lab** ..... 4  
Choose from: PSY 427, 430, 440, 450, \*456, 460, 552

**Capstone Option** ..... 3-8  
Choose from: PSY 495 and 496, 499, 500, 561, 562, 563, 564, \*565, 566

**Electives** ..... 0-5  
Choose from: PSY 223, 302, 305, 331, 395, 399, 424, 425, 448, 449, 459, 533, 534, 535, 558

**From Outside the Major Department**

Choose 14 hours outside Psychology at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 14

**Other Major hours: ..... 26**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 5

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP or College Requirement

**Bachelor of Science with a major in PSYCHOLOGY**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: with the exception of PSY 215, PSY 216, PSY 312, PSY 456, and PSY 565, courses with a PSY prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math ..... 0-3
- II. Foreign Language (*placement exam recommended*) ..... 0-8
- III. Inference–Logic ..... 3-6
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences ..... 6
- VII. Social Sciences (*partially completed by Premajor Requirement*) ..... 3
- VIII. Humanities ..... 6
- IX. Cross-Cultural (*choose a Humanities course*) .... 3
- X. Electives (*choose two Natural Science courses*) ..... 6

**USP hours: ..... 33-50**

**College Requirements**

- I. Foreign Language (*placement exam recommended*) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (*completed by Major Requirement*)
  - b. Social Science (*completed by Premajor Requirement*)
  - c. Humanities (*completed by USP Cross-Cultural Requirement*)
- III. Laboratory or Field Work (*completed by Premajor Requirement*)
- IV. Electives ..... 6

**College Requirement hours: ..... 6-14**

**Premajor Requirements**

- \*PSY 100 Introduction to Psychology  
or
- \*PY 110 General Psychology ..... 3-4
- PSY 195 Orientation to Psychology ..... 1
- \*PSY 215 Experimental Psychology ..... 4

**Premajor hours: ..... 8-9**

**Major Requirements**

- Major Core Requirements**
- \*PSY 216 Applications of Statistics in Psychology . 4
  - PSY 311 Learning and Cognition ..... 3
  - \*PSY 312 Brain and Behavior ..... 3
  - PSY 313 Personality and Individual Differences ..... 3
  - PSY 314 Social Psychology and Cultural Processes ..... 3
- Major Core hours: ..... 16**

**Other Course Work Required for the Major From the Major Department:**

**Advanced Lecture/Lab** ..... 4  
Choose from: PSY 427, 430, 440, 450, \*456, 460, 552

**Capstone Option** ..... 3-8  
Choose from: PSY 495 and 496, 499, 500, 561, 562, 563, 564, \*565, 566

**Electives** ..... 0-5  
Choose from: PSY 223, 302, 305, 331, 395, 399, 424, 425, 448, 449, 459, 533, 534, 535, 558

**From Outside the Major Department**

Choose 14 hours outside Psychology at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 14

**Other Major hours: ..... 26**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 5

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP or College Requirement.

## Minor in Psychology

The minor in psychology requires a minimum of 20 hours to include the following:

### 1. Prerequisite courses

PSY 100 Introduction to Psychology ..... 4  
PSY 215 Experimental Psychology ..... 4

### 2. All of the following courses:

PSY 311 Learning and Cognition ..... 3  
PSY 312 Brain and Behavior ..... 3  
PSY 313 Personality and Individual Differences ..... 3  
PSY 314 Social Psychology and Cultural Processes 3

## B.A. or B.S. with a major in RUSSIAN STUDIES

The requirements for the B.A. and B.S. with a major in Russian Studies are listed under in this A&S section under *Modern and Classical Languages, Literatures and Cultures*.

## SOCIOLOGY

Sociology emphasizes the study of human behavior and basic social processes. The discipline provides excellent preparation for careers in a variety of occupations and professions including planning and community development, law, public relations and advertising, personnel administration, private business and government administration, health and human services, family relations, criminal justice fields, and others.

Students may major or minor in sociology. The department offers a Bachelor of Arts and a Bachelor of Science through the College of Arts and Sciences. Students may also complete a second major or minor in sociology even though they are enrolled in other colleges. In addition, students seeking certification in social studies education at the secondary level through the College of Education may also emphasize sociology in their programs.

Courses offered by the department cover a wide range of topics and issues. Areas such as social inequality, health, social psychology, social change, institutions and organizations, social differentiation, criminology and deviance, work, gender, and inequality, and family comprise a large part of the curriculum. Students may also pursue special readings courses and experiential education placements or internships through the department.

## Bachelor of Arts with a major in SOCIOLOGY

### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 94.

## University Studies Program Requirements

I. Math .....	0-3
II. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
III. Inference-Logic .....	3-6
IV. Written Communication .....	3-6
V. Oral Communication .....	3
VI. Natural Sciences .....	6
VII. Social Sciences ( <i>partially completed by Premajor Requirement</i> ) .....	3
VIII. Humanities .....	6
IX. Cross-Cultural ( <i>choose a 300+ level Humanities course</i> ) .....	3
X. Electives ( <i>choose two Natural Science courses</i> ) ..	6

**USP hours: ..... 33-50**

## College Requirements

I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-8
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by USP Elective Requirement</i> ) .....	
b. Social Science ( <i>completed by Premajor and Major Requirements</i> ) .....	
c. Humanities ( <i>partially completed by USP Cross-Cultural Requirement</i> ) .....	3
III. Laboratory or Field Work ( <i>completed by Major Requirement</i> ) .....	
IV. Electives .....	6

**College Requirement hours: ..... 9-17**

## Premajor Requirements

*SOC 101 Introduction to Sociology or *ACE 102 The Dynamics of Rural Social Life .....	3
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plus one of the following:

SOC 152 Modern Social Problems	
SOC 235 Inequality in Society	
SOC 249 Mass Media and Mass Culture	
SOC 260 Population, Resources, and Change	
SOC 299 Special Introductory Topics in Sociology .....	3

**Premajor hours: ..... 6**

## Major Requirements

### Major Core Requirements

SOC 302 Sociological Research Methods I .....	3
SOC 303 Sociological Research Methods II .....	3
SOC 304 Classical Sociological Theory .....	3
SOC 305 Contemporary Sociological Theory .....	3

**Major Core hours: ..... 12**

### Other Course Work Required for the Major

#### From the Major Department:

Choose 15 hours of 300+ level Sociology courses .. 15

#### From Outside the Major Department

Choose 15 hours outside Sociology at the 300+ level. 200+ level courses used to satisfy USP and College requirements can also be counted here. These courses must be chosen from the list that follows, or approved by the Director of Undergraduate Studies .....

15 A-H – all 200+ courses	
AAD 310, 340, 350, 399, 402, 499	
AAS – all 200+ courses	
AC – all 200+ courses	
ACE – all 200+ courses, 400	
AEC 201, 302, 303, 304, 305, 309, 316, 320, 324, 341, 410, 445G, 471, 479, 483, 532	
AED – all 200+ courses	
AEN 463G	
ANT – all 200+ courses	
APP – all 200+ courses	
ARC 222, 223, 314, 315, 324, 325, 332, 333, 461, 511, 512, 513, 514, 515, 589	
BIO 325, 375	

BSC 331, 527, 529, 546	
CLA 210, 229, 230, 301, 302, 312, 313, 390, 426G, 450G, 509, 522, 523, 526, 527, 552, 553, 557	
COM 249, 252, 281, 319, 325, 350, 351, 365, 381, 419, 449, 452, 453, 454, 462, 525, 555, 571, 581	
CPC 501	
ECO – all 200+ courses	
EDA 401	
EDP 202, 518, 522, 548, 557, 580	
EDS 510, 516, 547	
EDU 305	
ENG 211, 212, 230, 231, 232, 233, 234, 261, 262, 264, 270, 271, 281, 283, 310, 330, 331, 332, 333, 334, 335, 336, 381, 382, 480G, 481G, 482G, 483G, 485G, 486G, 487G, 488G, 519, 570, 572	
ENS – all 200+ courses	
EPE 301, 317, 554, 555, 557, 570	
FAM 250, 252, 253, 254, 255, 258, 357, 360, 390, 401, 402, 475, 502, 509, 544, 552, 553, 554, 555, 563, 585	
FR 350, 375, 450G, 465G, 470G, 504, 550, 553, 570	
GEN 200, 300, 301, 501	
GEO – all 200+ courses	
GER 263, 264, 311, 312, 317, 319, 361, 415G, 416G, 420G	
GRN 585	
HEE – all 200+ courses	
HES – all 300+ courses	
HIS – all 200+ courses	
HMT 210, 270, 320, 330, 460, 470, 480, 488	
HON – all 200+ courses	
HP 501	
HSE 510	
HSM 260, 351, 353, 354, 450, 451, 452, 510, 511	
HUM – all 300+ courses	
ISC 311, 321, 331, 341, 351, 361, 371, 431, 441, 451, 461, 491, 497, 541, 543	
ITA 443G, 563, 566, 569	
JAT 464, 508	
JOU 304, 319, 430, 455, 460, 485, 531, 532, 535	
JPN 320, 321, 334, all 400+ courses	
KHP 300, 330, 430, 485, 547, 573, 580, 585	
LA 205, 206	
LAS – all 200+ courses	
LIN 210, 211, 212, 310, 317, 319	
MAT 247, 312, 315, 414, 420, 425, 470, 480, 522, 533, 547	
MGT 301, 309, 320, 340, 341, 390, 410, 422, 423, 430, 491, 492, 499	
MKT 300, 310, 320, 330, 340, 390, 410, 430, 435, 445, 450	
MUS 201, 202, 203, 206, 222, 300, 301, 302, 303, 325, 330, 390, 400G, 500, 501, 502, 503, 504, 505, 506	
NFS 516	
NRC 301, 320, 330, 381, 555	
NUR 510, 512, 514	
OR 524, 525	
PHI – all 200+ courses	
PHR 222, 520	
PS – all 200+ courses	
PSY – all 200+ courses	
RAE 270, 280, 324, 325, 328, 330, 331, 370, 380, 390, 400G, 401, 425, 435	
RC 510, 515, 516, 520, 530, 540, 547	
SPA 312, 314, 320, 322, 324, 361, 424, 432, 434, 438G, 444, 454, 464, 474, 512, 553	
ST 500	
STA – all 200+ courses	
SW 222, 300, 320, 322, 354, 400, 401, 420, 421, 430, 444, 445, 450, 470, 505, 510, 514, 515, 516, 523, 571, 580, 595	
TA 380, 381, 382	
TEL 201, 300, 310, 319, 320, 355, 453, 482, 510, 520, 525, 555	
UK 301	
WS – all 200+ courses	

**Other Major hours: ..... 30**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 5

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP Requirement.

**Bachelor of Science with a major in SOCIOLOGY**

**120 hours (minimum)**

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science. Please note: courses with a SOC prefix are generally not accepted towards fulfilling this 60-hour requirement. Therefore, be sure to keep this requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Science degree, including a specific listing of courses applicable to the 60-hour requirement, on page 96.

**University Studies Program Requirements**

- I. Math ..... 0-3
- II. Foreign Language (*placement exam recommended*) ..... 0-8
- III. Inference-Logic ..... 3-6
- IV. Written Communication ..... 3-6
- V. Oral Communication ..... 3
- VI. Natural Sciences ..... 6
- VII. Social Sciences (*partially completed by Premajor Requirement*) ..... 3
- VIII. Humanities ..... 6
- IX. Cross-Cultural (*choose a Humanities course*) .... 3
- X. Electives (*choose two Natural Science courses*) .. 6

**USP hours: ..... 33-50**

**College Requirements**

- I. Foreign Language (*placement exam recommended*) ..... 0-8
- II. Disciplinary Requirements
  - a. Natural Science (*completed by USP Elective Requirement*)
  - b. Social Science (*completed by Premajor and Major Requirements*)
  - c. Humanities (*completed by USP Cross-Cultural Requirement*)
- III. Laboratory or Field Work (*completed by Major Requirement*)
- IV. Electives ..... 6

**College Requirement hours: ..... 6-14**

**Premajor Requirements**

- \*SOC 101 Introduction to Sociology  
or  
\*ACE 102 The Dynamics of Rural Social Life ..... 3

plus one of the following:

- SOC 152 Modern Social Problems
- SOC 235 Inequality in Society
- SOC 249 Mass Media and Mass Culture
- SOC 260 Population, Resources, and Change
- SOC 299 Special Introductory Topics  
in Sociology ..... 3

**Premajor hours: ..... 6**

**Major Requirements**

- Major Core Requirements**
- SOC 302 Sociological Research Methods I ..... 3
- SOC 303 Sociological Research Methods II ..... 3
- SOC 304 Classical Sociological Theory ..... 3

- SOC 305 Contemporary Sociological Theory ..... 3
- Major Core hours: ..... 12**

**Other Course Work Required for the Major**

**From the Major Department:**  
Choose 15 hours of 300+ level Sociology courses. 200+ level courses used to satisfy USP and College requirements can also be counted here ..... 15

**From Outside the Major Department**

Choose 15 hours outside Sociology at the 200+ level. Courses used to satisfy USP and College requirements can be counted here. These courses must be chosen from the list that follows, or approved by the Director of Undergraduate Studies ..... 15

- A-H – all 200+ courses**
- AA 310, 340, 350, 399, 402, 499
- AAS – all 200+ courses
- AC – all 200+ courses
- ACE – all 200+ courses, 400
- AEC 201, 302, 303, 304, 305, 309, 316, 320, 324, 341, 410, 445G, 471, 479, 483, 532
- AED – all 200+ courses
- AEN 463G
- ANT – all 200+ courses
- APP – all 200+ courses
- ARC 222, 223, 314, 315, 324, 325, 332, 333, 461, 511, 512, 513, 514, 515, 589
- BIO 325, 375
- BSC 331, 527, 529, 546
- CLA 210, 229, 230, 301, 302, 312, 313, 390, 426G, 450G, 509, 522, 523, 526, 527, 552, 553, 557
- COM 249, 252, 281, 319, 325, 350, 351, 365, 381, 419, 449, 452, 453, 454, 462, 525, 555, 571, 581
- CPC 501
- ECO – all 200+ courses
- EDA 401
- EDP 202, 518, 522, 548, 557, 580
- EDS 510, 516, 547
- EDU 305
- ENG 211, 212, 230, 231, 232, 233, 234, 261, 262, 264, 270, 271, 281, 283, 310, 330, 331, 332, 333, 334, 335, 336, 381, 382, 480G, 481G, 482G, 483G, 485G, 486G, 487G, 488G, 519, 570, 572
- ENS – all 200+ courses
- EPE 301, 317, 554, 555, 557, 570
- FAM 250, 252, 253, 254, 255, 258, 357, 360, 390, 401, 402, 475, 502, 509, 544, 552, 553, 554, 555, 563, 585
- FR 350, 375, 450G, 465G, 470G, 504, 550, 553, 570
- GEN 200, 300, 301, 501
- GEO – all 200+ courses
- GER 263, 264, 311, 312, 317, 319, 361, 415G, 416G, 420G
- GRN 585
- HEE – all 200+ courses
- HES – all 300+ courses
- HIS – all 200+ courses
- HMT 210, 270, 320, 330, 460, 470, 480, 488
- HON – all 200+ courses
- HP 501
- HSE 510
- HSM 260, 351, 353, 354, 450, 451, 452, 510, 511
- HUM – all 300+ courses
- ISC 311, 321, 331, 341, 351, 361, 371, 431, 441, 451, 461, 491, 497, 541, 543
- ITA 443G, 563, 566, 569
- JAT 464, 508
- JOU 304, 319, 430, 455, 460, 485, 531, 532, 535
- JPN 320, 321, 334, all 400+ courses
- KHP 300, 330, 430, 485, 547, 573, 580, 585
- LA 205, 206
- LAS – all 200+ courses
- LIN 210, 211, 212, 310, 317, 319
- MAT 247, 312, 315, 414, 420, 425, 470, 480, 522, 533, 547
- MGT 301, 309, 320, 340, 341, 390, 410, 422, 423, 430, 491, 492, 499

- MKT 300, 310, 320, 330, 340, 390, 410, 430, 435, 445, 450
- MUS 201, 202, 203, 206, 222, 300, 301, 302, 303, 325, 330, 390, 400G, 500, 501, 502, 503, 504, 505, 506
- NFS 516
- NRC 301, 320, 330, 381, 555
- NUR 510, 512, 514
- OR 524, 525
- PHI – all 200+ courses
- PHR 222, 520
- PS – all 200+ courses
- PSY – all 200+ courses
- RAE 270, 280, 324, 325, 328, 330, 331, 370, 380, 390, 400G, 401, 425, 435
- RC 510, 515, 516, 520, 530, 540, 547
- SPA 312, 314, 320, 322, 324, 361, 424, 432, 434, 438G, 444, 454, 464, 474, 512, 553
- ST 500
- STA – all 200+ courses
- SW 222, 300, 320, 322, 354, 400, 401, 420, 421, 430, 444, 445, 450, 470, 505, 510, 514, 515, 516, 523, 571, 580, 595
- TA 380, 381, 382
- TEL 201, 300, 310, 319, 320, 355, 453, 482, 510, 520, 525, 555
- UK 301
- WS – all 200+ courses

**Other Major hours: ..... 30**

**Electives**

Choose electives to lead to the minimum total of 120 hours required for graduation ..... 9

**Total Minimum Hours Required for Degree ..... 120**

\*Course used towards completion of a USP Requirement.

**Minor in Sociology Hours**

**Prerequisites**

- SOC 101 Introductory Sociology  
or  
RSO 102 The Dynamics of Rural Social Life ..... 3
- Any other 100- or 200-level sociology course ..... 3

**Minor Requirements**

Students complete an additional 15 hours in sociology, at least 12 of which must be at the 300 level or above and must include **one** of the following six-hour blocks:  
SOC 302 and SOC 303 **or**  
SOC 304 and SOC 305 **or**  
SOC 302 and SOC 304

Any student wishing to minor in sociology should file an application with the Director of Undergraduate Studies in Sociology prior to entering the program.

**STATISTICS**

The Department of Statistics at the University of Kentucky is concerned with three essential functions: teaching, research, and consulting in statistics.

The department does not offer an undergraduate degree, but students may elect to include statistics as part of a topical major or to minor in statistics. The program in mathematical sciences also includes several statistics courses. The Master of Science and the Doctor of Philosophy degrees are offered.

Research is being actively pursued in statistical theory and methods, both parametric and nonparametric, linear models, inference, stochastic processes, applied probability, and biostatistics.

Consultation on statistical analysis and interpretation of data is provided to research workers on and off the campus. Particular attention is paid to the consulting needs of graduate students.

### Minor in Statistics

The minor in statistics is aimed specifically at social and life science students, as well as students in the traditional mathematical sciences. A minimum of 17 hours of course work is required to complete the minor, as follows:

#### Track 1

STA 291 Statistical Method .....	3
STA 295 The Art and Practice of Probability .....	3
STA 322 Statistical Methods in Nonparametric Inference and Survey Sampling .....	4
STA 422 Basic Statistical Theory II .....	4

#### Track 2

STA 320 Introductory Probability .....	3
STA 321 Basic Statistical Theory I .....	3
STA 322 Statistical Methods in Nonparametric Inference and Survey Sampling .....	4
STA 422 Basic Statistical Theory II .....	4

**plus** one relevant course from the student's area (3 credit hours) to be approved by the Department of Statistics.

## INTERDISCIPLINARY MINORS

### African American Studies

The minor in African American Studies provides students with an opportunity to examine the contributions of established academic disciplines towards the understanding of African peoples, particularly those peoples in the New World. It also provides a framework for research and analysis of issues which focus on African American experiences in artistic, literary, historical, and sociopolitical environments. The minor requires 21 hours of study as follows:

1. AAS 200 Introduction to African-American Studies
2. AAS 400 Special Topics in African-American Studies
3. AAS 401 Independent Reading and Research in African-American Studies
4. a. At least **six** hours of course work in the humanities (as approved by the African American Studies Committee). Among these are:

ENG 264 Major Black Writers  
FR 504 Topics in French Literature and Culture (if appropriate)

HIS 254 History of Sub-Saharan Africa  
HIS 260 African American History to 1865  
HIS 261 African American History 1865-Present  
HIS 585 The Age of Jim Crow, 1880-1930  
MUS 300 History of Jazz  
PHI 300 Undergraduate Seminar (if appropriate)  
SPA 468G Twentieth Century Spanish American Literature in Translation (if appropriate)

4. b. At least six hours in the social sciences (as approved by the African American Studies Committee). Among these are:

ANT 431G Cultures and Societies of Sub-Saharan Africa  
EDC 550 Education in a Culturally Diverse Society  
GEO 336 Geography of Sub-Saharan Africa  
PS 280 Issues in Public Policy (if appropriate)  
PS 417G Survey of Sub-Saharan Politics  
PS 461G Civil Liberties  
SOC 432 Race and Ethnic Relations

**NOTE:** Courses in English and history are strongly recommended.

### American Culture

American studies draws together diverse disciplines to examine the historical and contemporary forms and issues of our national life. The program in American Culture takes as its field of study any peoples, cultural expressions and social institutions, however or when ever identified as "American." Program curricula link faculty, courses, and students across a range of humanities and social science departments.

The minor centers on two team-taught, interdisciplinary seminars on selected topics in American studies. Students electing the minor are also encouraged to take a range of elective courses to complement their major. The minor in American Culture prepares students for further graduate or professional training, or for work in education, government, or business.

The minor requires 18 hours of study as follows:

1. AC 301 Topics in American Culture
2. AC 401 Perspectives in American Culture
3. Four additional courses (12 hours) from the following list of approved courses. No more than two courses (or six hours) may be taken in any one discipline:

**Art History:** A-H 342

**Anthropology:** ANT 221, ANT 342, ANT 470G, ANT 527, ANT 534

**English:** ENG 310, ENG 480G

**Geography:** GEO 320, GEO 321, GEO 322, GEO 490G

**History:** HIS 260, HIS 261, HIS 265, HIS 350, HIS 351, HIS 460, HIS 461, HIS 463, HIS 464, HIS 465, HIS 466, HIS 467, HIS 572, HIS 573, HIS 574, HIS 575, HIS 576, HIS 577, HIS 578, HIS 579, HIS 580, HIS 581, HIS 582, HIS 584, HIS 585, HIS 586, HIS 596

**Music:** MUS 206, MUS 222, MUS 300, MUS 301, MUS 506

**Philosophy:** PHI 514

**Political Science:** PS 255, PS 430G, PS 456G, PS 461G, PS 463G, PS 465G, PS 467G, PS 470G, PS 475G, PS 479, PS 545, PS 584

**Sociology:** SOC 340, SOC 509, SOC 534

**Theatre:** TA 382

For further information, contact Associate Professor Joanne Melish, 1727 Patterson Office Tower, (859) 257-1014.

### Appalachian Studies

This minor offers the student with serious interests in Appalachian regional studies an opportunity to pursue a minor concentration to complement a major in one of the university's professional or liberal arts programs. This interdisciplinary program enables students to comprehend more fully the history, social structure, and culture of the region – its people, its problems, and its future.

The minor in Appalachian Studies requires 18 hours of course work to include the following:

1. At least six hours in Appalachian Studies courses in the humanities. Among these are:  
HIS 580 History of Appalachia  
HIS 650 Readings in Special Topics in History – if appropriate

HIS 700 Special Problems in History – if appropriate  
MUS 301 Appalachian Music

2. At least six hours in Appalachian Studies courses in the social sciences. Among these are:

ANT 527 Children and Family in Appalachia  
ANT/SOC 534 The Southern Appalachians:

A Sociological Interpretation  
FAM 550 Children and Family in Appalachia  
GEO 321 Land, People, and Development in Appalachia  
PS 456G Appalachian Politics

3. Any additional courses listed above or below to total at least 18 hours. Among these are:

APP 200 Introduction to Appalachian Studies  
APP 300 Special Topics in Appalachian Studies (Subtitle required)  
EXP 396 Experiential Education – if appropriate  
UK 300 University Course – if appropriate

**Note:** Introduction to Appalachian Studies (APP 200) is strongly recommended. Individually arranged courses in independent study and experiential education may be counted toward the minor if approved by an Appalachian Studies advisor. Special Topics courses offered by the various departments may also be counted, if appropriate.

For more information about a minor in Appalachian Studies, contact the Director of Appalachian Studies, Dr. Shaunna L. Scott, (859) 257-6882 or e-mail at: soc247@uky.edu. For general information about service and research in the region, contact the Appalachian Center, 624 Maxwelton Ct., Lexington, KY 40506-0347, (859) 257-4852.

### Environmental Studies

Environmental considerations permeate almost every facet of modern life, and concern for "the environment" is practically universal as we approach the twenty-first century. The minor in Environmental Studies is designed to provide students with the opportunity to become conversant in a range of environmental topics, whether as private citizens in their daily lives or as professional members of corporate, government, legal, medical, and educational circles.

The minor draws on topics and perspectives from the natural and physical sciences, the social sciences, and the humanities to underscore the interdisciplinary nature of environmental issues and problems. Students taking the minor are encouraged to integrate the program with their major study focus in order to gain a competitive advantage in grappling with environmental topics.

The minor in Environmental Studies requires 18 hours of course work including the following:

1. ENS 200 Introduction to Environmental Studies\* ..... 3
2. Six hours chosen from the following list of **socio-cultural** perspectives:  
ANT 375 Ecology and Social Practice ..... 3  
GEO 210 Pollution, Hazards, and Environmental Management ..... 3  
GEO 550 Sustainable Resource Development and Environmental Management ..... 3  
PS 456G Appalachian Politics ..... 3  
PS 491 Special Topics in Political Science (Subtitle required) ..... 1-3  
SOC 260 Population, Resources and Change ..... 3

ENS 300 Special Topics (Subtitle required) ..... 3  
 ENS 395 Independent Work ..... 3

3. Six hours chosen from the following list of **science and technology** perspectives:

FOR 205 Forest and Wildland Soils and Landscapes 4  
 FOR 340 Forest Ecology ..... 3  
 FOR 350 Silviculture ..... 4  
 GEO 251 Weather and Climate ..... 3  
 GLY 341 Landforms ..... 3  
 GLY 585 Hydrogeology ..... 3  
 BIO 325 Introductory Ecology ..... 4  
 ENS 300 Special Topics (Subtitle required) ..... 3  
 ENS 395 Independent Work ..... 3

4. ENS 400 Senior Seminar (Subtitle required)\* .. 3  
 \*ENS 200 and ENS 400 satisfy the University Studies cross-disciplinary requirement.

At least six of the twelve elective hours must be at the 300-level or above.

Elective courses must be drawn from outside the student's major.

Alternative elective courses may be approved by the Environmental Studies Program Director.

For further information, contact Professor Ernest J. Yanarella, 1659 Patterson Office Tower, (859) 257-2989; e-mail: ejanya@uky.edu.

**Indian Culture**

This minor is designed to allow students to develop a more profound understanding of Indian culture. The curriculum is strongly interdisciplinary, encompassing courses in linguistics, anthropology, English, geography, mathematics, philosophy, political science, and sociology.

Students completing the minor will possess: (1) an ability to read Sanskrit (vital for comprehending Indian culture); (2) a well-rounded, multidisciplinary understanding of the culture and geography of India and of contemporary Indian society and politics; and (3) a high degree of preparedness to pursue careers in business or teaching that require knowledge of Indian society and its traditions.

The minor in Indian Culture requires 18 hours of course work, as follows:

1. **Sanskrit Language Courses** (6 hours)

LIN 520 Sanskrit I ..... 3  
 LIN 521 Sanskrit II ..... 3

2. Twelve hours of courses on India from anthropology, English, geography, linguistics, mathematics, philosophy, political science, sociology, and independent studies in India. Students choose from the following courses:

\*ANT 327 Culture and Societies of India ..... 3  
 \*GEO 330 Geography of South Asia ..... 3  
 GEO 365 Special Topics in Regional Geography (Subtitle required) ..... 3  
 GEO 565 Topics in Geography ..... 3  
 LIN 395 Independent Work ..... 3  
 MA 330 History of Mathematics ..... 3  
 \*PHI 343 Asian Philosophy ..... 3  
 \*PS 420G Governments and Politics of South Asia .. 3  
 \*SOC 380 Development of Non-Western Societies ... 3

\*Also satisfies the USP cross-cultural requirement.

Students in the Indian Culture minor program will be encouraged to participate in a study program in India in the course of their undergraduate education.

For further information, contact Professor Gregory Stump (English and linguistics), 1253 Patterson Office Tower, (859) 257-1184; Professor Paul Karan (geography), 1439 Patterson Office Tower, (859) 257-6953; or Professor Avinash Sathaye (mathematics), 703 Patterson Office Tower, (859) 257-8832.

**Islamic Studies**

The interdisciplinary minor in Islamic Studies provides the opportunity to study the culture, language, literature, religion, history and philosophy of Muslim peoples throughout the world from antiquity to the present. Students will acquire a rounded understanding of Islamic culture, the ability to interpret information and news from the Middle East and elsewhere in an independent way, with understanding of the issues from the perspective of the Muslim countries, and will be prepared to pursue careers that require a knowledge of Islamic civilization.

1. **Minor Requirements** (6 hours)

RAE 328 Islamic Civilization I ..... 3  
 RAE 330 Islamic Civilization II ..... 3

2. **Minor Electives** (12 hours)

RAE 140 Elementary Modern Standard Arabic ..... 4  
 RAE 141 Elementary Modern Standard Arabic ..... 4  
 RAE 240 Intermediate Modern Standard Arabic ..... 3  
 RAE 241 Intermediate Modern Standard Arabic ..... 3  
 HIS 247 History of Islam and Middle East Peoples, 500-1250, A.D. .... 3  
 HIS 248 History of Islam and Middle East Peoples, 1250 to the Present ..... 3  
 RAE 331 Classical Arabic Literature (in English) .... 3  
 RAE 440 Introduction to the Quran ..... 3  
 RAE 442 Arabic Reading I ..... 3  
 RAE 443 Arabic Reading II ..... 3  
 RAE 435 Topics in Islamic Studies (Subtitle required) ..... 3  
 PS 491 Special Topics in Political Science (Subtitle required) ..... 1-3  
 PHI 504 Islamic and Jewish Philosophy and the Classical Tradition ..... 3  
 HIS 548 History of the Middle East: 1453-1920 ..... 3  
 HIS 549 History of the Middle East: 1952 to the Present ..... 3

**Note:** Other courses in the area may be elected with the approval of the chair of the department.

For further information, contact Professor Suleiman Darrat, 1073 Patterson Office Tower, (859) 257-7037; e-mail: sdarrat@uky.edu.

**Japan Studies**

The Japan Studies minor complements existing majors and prepares students with the skills that are required to work with Japan given its integral place in international business. Students will also become well-versed in the culture and geography of Japan, its history, arts, and environment. This background will prepare students for Japan-related careers in the United States and abroad.

This 23-hour program consists of (1) 14 hours of Japanese language courses, (2) 6 hours of Japanese cultural studies, and (3) 3 hours of elective courses on contemporary East Asian history, politics, and society.

The Japan Studies Program maintains a University of Kentucky Summer Field Station

at Yatsushiro (Kyushu) on the campus of the IEC Technical College for summer field research and instruction. Summer field seminars are offered at this site each year. Details at: [www.uwplatt.edu/~geography/japan](http://www.uwplatt.edu/~geography/japan).

1. **Japanese Language Courses** (14 hours)

JPN 101 Beginning Japanese I ..... 4  
 JPN 102 Beginning Japanese II ..... 4  
 JPN 201 Intermediate Japanese I ..... 3  
 JPN 202 Intermediate Japanese II ..... 3

2. **Japanese Cultural Studies** (6 hours)

GEO/JPN 334 Environment, Society and Economy of Japan ..... 3  
 ENG 283 Japanese Film ..... 3  
 JPN 320 Introduction to Japanese Culture, Pre-Modern to 1868 ..... 3  
 JPN 321 Introduction to Japanese Culture, Meiji (1868) to Present ..... 3

3. **Contemporary East Asian History, Politics, and Society** (3 hours)

HIS 295 East Asia to 1800 ..... 3  
 HIS 296 East Asia Since 1800 ..... 3  
 HIS 597 Westerners in East Asia, 1839 to the Present ..... 3  
 ANT 326 Peoples of East Asia ..... 3  
 PS 419G The Governments and Politics of Eastern Asia ..... 3  
 GEO 333 Geography of East Asia ..... 3  
 COM 525 Organizational Communication ..... 3  
 JPN 395 Independent Work in Japanese ..... 1-6  
 JPN 405 Seminar in Japanese and Asian Studies (Subtitle required) ..... 3

For further information, contact Professor Doug Slaymaker, Director, Japan Studies Program, (859) 257-6953 or (859) 257-3761; e-mail: nihong.uky@spamex.com.

**Judaic Studies**

The interdisciplinary minor in Judaic Studies provides students with the opportunity to become acquainted with the culture, language, literature, religion, history, and philosophy of the Jewish people from antiquity to the present.

The minor in Judaic Studies requires 18 hours of course work as follows:

1. **Required Courses**

RAE 324 Jewish Thought and Culture I: From Ancient Israel to the Middle Ages\* ..... 3  
 RAE 325 Jewish Thought and Culture II: From the Expulsion from Spain to the Present\* ..... 3

2. **Elective Courses**

RAE 130 Elementary Hebrew ..... 4  
 RAE 131 Elementary Hebrew ..... 4  
 RAE 230 Intermediate Hebrew ..... 3  
 RAE 231 Intermediate Hebrew ..... 3  
 PHI 504 Islamic and Jewish Philosophy and the Classical Tradition ..... 3  
 CLA 390 Roman, Jew and Greek: Backgrounds to Christianity ..... 3  
 HIS 330 A History of Western Religious Thought (I) 3  
 HIS 323 The Holocaust ..... 3  
 ENG 270 The Old Testament as Literature ..... 3  
 RAE 425 Topics in Judaic Studies (Subtitle required) 3

And other courses with significant Judaic studies content, as approved by the Director, to a maximum of six credit hours.

\*RAE 324 and RAE 325 satisfy the University Studies humanities requirement.

For further information, contact Professor Daniel Frank, Director of Judaic Studies Program, 1429 Patterson Office Tower, (859) 257-7749.

### Women's Studies

The Women's Studies program assists students who wish to develop undergraduate majors in Women's Studies under the Topical Studies major program. For more information, see "Topical Studies Majors" in the *College of Arts and Sciences* section of this Bulletin.

The minor in Women's Studies provides students an opportunity to examine and integrate the contributions of established academic disciplines in understanding the historical and contemporary roles and status of women. Also, the program provides a framework for research and analysis which focus upon women's issues. The minor requires 21 hours of course work, as outlined below:

WS 200 Introduction to Women's Studies  
in the Social Sciences

or

WS 201 Introduction to Women's Studies

in the Arts and Humanities ..... 3

WS 350 Introduction to Feminist Theorizing ..... 3

WS 399 Internship in Women's Studies ..... 3

\*WS 416 Cross-Cultural Perspectives  
in Women's Studies ..... 3

Plus an additional nine hours of electives to be selected with the approval of the Director of the Women's Studies Program.

\*WS 416 is offered every other year; please check with the Women's Studies Program for more information.

**Courses used for the Women's Studies topical major, minor or graduate certificate must be taught by a Women's Studies Affiliated Faculty.**

For further information, contact Professor Joan Callahan, Director of Women's Studies, 112 Breckinridge Hall, (859) 257-1388.