Bachelor of Arts in Human Biology

Why study biology?
Study biology because undergraduates should have the opportunity to explore the breadth of biology that allows them to succeed in their chosen paths beyond the university.

Undergraduate Admission

Admission to KU
All students applying for admission must send high school and college transcripts to the Office of Admissions. Unless they are college transfer students with at least 24 hours of credit, prospective students must send ACT or SAT scores to the Office of Admissions. Prospective first-year students should be aware that KU has qualified admission requirements that all new first-year students must meet to be admitted. Consult the Office of Admissions (http://admissions.ku.edu) for application deadlines and specific admission requirements.

Visit the Office of International Student and Scholar Services (http://www.iss.ku.edu) for information about international admissions.

Students considering transferring to KU may see how their college-level course work will transfer on the Office of Admissions (http://credittransfer.ku.edu) website.

Admission to the College of Liberal Arts and Sciences
Admission to the College is a different process from admission to a major field. Some CLAS departments have admission requirements. See individual department/program sections for departmental admission requirements.

First- and Second-Year Preparation
Because biology study requires preparation in other sciences, students should begin meeting major requirements in the first year. It is particularly important to take CHEM 130 and CHEM 135 in the first year and, for several majors, to take CHEM 330, CHEM 331, CHEM 335, and CHEM 336 in the second year. Ideally, most majors should also take BIOL 150 and BIOL 152 during the first year, as well as BIOL 105. Students who have taken BIOL 100 and BIOL 102, have earned an A or B in both courses, and have decided to major in a biological science should consult a UBP advisor to request permission to substitute BIOL 100 and BIOL 102 for BIOL 150.

Majors and Concentrations
Bachelor's degree requirements in biology are modified as necessary. Current requirements are available in the UBp office and online (http://www.kuub.ku.edu). Major programs are offered in biochemistry, biology, human biology, and microbiology. Students may choose to concentrate in a range of specialties in the biological sciences, such as botany, cellular biology, developmental biology, environmental biology, ecology, entomology, genetics, marine biology, molecular biology, neurobiology, paleontology, physiology, systematics, or zoology (invertebrate or vertebrate).

Requirements for the B.A. Major in Human Biology
The curriculum builds from a broad background of general science courses and adds depth in a set of 5 specialized disciplines. Courses in the disciplines emphasize topics related to humans and provide a solid understanding of each field of knowledge.

For general requirements for the B.A. degree, see CLAS General Education Degree Requirements (http://catalog.ku.edu/liberal-arts-sciences) on the College of Liberal Arts and Sciences Degree Requirements page.

Students must choose 1 concentration from the 5 areas:
- Anthropology
- Applied behavioral science
- Biology
- Psychology
- Speech-language-hearing

General Science Requirements (34)
Majors must complete the following 34-hour minimum of general science requirements that serve as foundational courses for this major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 345</td>
<td>Introduction to Human Evolutionary Biology</td>
</tr>
<tr>
<td>BIOL 105</td>
<td>Biology Orientation Seminar</td>
</tr>
<tr>
<td>BIOL 150</td>
<td>Principles of Molecular &amp; Cellular Biology</td>
</tr>
<tr>
<td>BIOL 151</td>
<td>Principles of Molecular and Cellular Biology, Honors</td>
</tr>
<tr>
<td>BIOL 152</td>
<td>Principles of Organismal Biology</td>
</tr>
<tr>
<td>BIOL 153</td>
<td>Principles of Organismal Biology, Honors</td>
</tr>
<tr>
<td>CHEM 130</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>CHEM 190</td>
<td>Foundations of Chemistry I, Honors</td>
</tr>
<tr>
<td>CHEM 135</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHEM 195</td>
<td>Foundations of Chemistry II, Honors</td>
</tr>
<tr>
<td>MATH 115 &amp; MATH 116</td>
<td>Calculus I and Calculus II</td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Calculus I, Honors</td>
</tr>
<tr>
<td>PHSX 114</td>
<td>College Physics I</td>
</tr>
<tr>
<td>PHSX 211</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHSX 216</td>
<td>General Physics I Laboratory</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Statistics in Psychological Research (Recommended for the Psychology Concentration)</td>
</tr>
</tbody>
</table>
Anthropology

Anthropology Concentration (13)
Majors must complete the following 31 hours. These additional science courses are included in the Human Biology-Anthropology major hours and GPA calculations.

Organic Chemistry I. Satisfied by one of the following:
- CHEM 310 Fundamentals of Organic Chemistry
- CHEM 330 Organic Chemistry I

Organic Chemistry I Laboratory. Satisfied by:
- CHEM 331 Organic Chemistry I Laboratory

Cell Structure & Function. Satisfied by one of the following:
- BIOL 416 Cell Structure and Function
- BIOL 536 Cell Structure and Function (Honors)

Principles of Genetics. Satisfied by one of the following:
- BIOL 350 Principles of Genetics
- BIOL 360 Principles of Genetics, Honors

Senior Seminar in Human Biology. Satisfied by:
- BIOL 599 Senior Seminar: _____ (Must be taken in senior year)

Anthropology Concentration Categories (18-21)
Satisfied by completing 2 of the following 4 categories (18-21 hours required):

Category 1: Human Anatomy and Physiology
- Biology of Development. Satisfied by:
  - BIOL 417 Biology of Development
- Anatomy and Physiology. Satisfied by completing 9 hours from the following:
  - ANTH 542 Biology of Human Nutrition
  - ANTH 648 Human Osteology
  - ANTH 650 Human Reproduction: Biology and Behavior
  - BIOL 426 Laboratory in Cell Biology
  - BIOL 440 Advanced Human Anatomy
  - BIOL 600 Introductory Biochemistry, Lectures
  - BIOL 637 Introductory Biochemistry Laboratory
  - BIOL 646 Mammalian Physiology
  - BIOL 647 Mammalian Physiology Laboratory

Category 2: Human Population Biology
Satisfied by completing 9 hours from the following:
- ANTH 340 Human Variation and Evolution
- ANTH 442 Anthropological Genetics
- ANTH 544 Origins of Native Americans
- ANTH 545 Contemporary Health Issues in Africa
- ANTH 652 Population Dynamics

Category 3: Human Adaptation and Evolution
Satisfied by completing 9 hours from the following:
- ANTH 350 Human Adaptation
- ANTH 352 Controversies on the Living and the Dead
- ANTH 503 Topics in Biological Anthropology: _____
- ANTH 555 Evolution of Human Diseases

Category 4: Human Biology and Behavior
- Human Paleontology: Fossil Apes to Australopithecus
- Human Paleontology: Homo Erectus to Homo Sapiens

Major Hours & Major GPA
While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 31 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator (http://clas.ku.edu/undergrad/tools/gpa).

Applied Behavioral Science

Applied Behavioral Science Concentration (15)
Majors must complete the following 33 hours. These additional science courses are included in the Human Biology-Applied Behavioral Science major hours and GPA calculations.

Principles of Genetics. Satisfied by one of the following:
- BIOL 350 Principles of Genetics
- BIOL 360 Principles of Genetics, Honors

Introduction to Applied Behavioral Science. Satisfied by:
- ABSC 100 Introduction to Applied Behavioral Science

Development. Satisfied by one of the following:
- ABSC 160 Introduction to Child Behavior and Development
- PSYC 333 Child Development

Research Methods & Application. Satisfied by:
- ABSC 308 Research Methods and Application

Senior Seminar in Human Biology. Satisfied by:
- BIOL 599 Senior Seminar: _____ (Must be taken in senior year)

Applied Behavioral Science Concentration Categories (18-19)
Satisfied by completing 2 of the following 4 categories (18-19 hours required):

Category 1: Applied Behavioral Science
- Principles and Procedures of Behavior Modification and Therapy

Category 2: Applied Behavioral Science
- Human Variation and Evolution
- Anthropological Genetics
- Origins of Native Americans
- Contemporary Health Issues in Africa
- Population Dynamics

Category 3: Human Adaptation and Evolution
- Human Adaptation
- Controversies on the Living and the Dead
- Topics in Biological Anthropology: _____
- Evolution of Human Diseases

Category 4: Human Biology and Behavior
- Human Paleontology: Fossil Apes to Australopithecus
- Human Paleontology: Homo Erectus to Homo Sapiens
ABSC 304  The Principles and Procedures of Behavior Modification and Therapy

Applied Behavioral Science. Satisfied by completing 6 hours selected from the following courses:

ABSC 150  Community Leadership
ABSC 310  Building Healthy Communities
or ABSC 311  Building Healthy Communities, Honors
ABSC 350  The Behavioral Treatment of Children with Autism
ABSC 410  Behavioral Approaches in Working with Adolescents
ABSC 437  Independent Living and People with Disabilities

Category 2: Development: Typical and Atypical
Child Behavior and Development. Satisfied by:
ABSC 632  Advanced Child Behavior and Development
Development: Typical and Atypical. Satisfied by completing 6 hours selected from the following:
ABSC 535  Developmental Psychopathology
ABSC 565  Applied Developmental Psychology
BIOL 417  Biology of Development

Category 3: Biology of Behavior
Physiology of Organisms. Satisfied by:
BIOL 408  Physiology of Organisms
Biology of Behavior. Satisfied by completing 6 hours selected from the following:
ANTH 542  Biology of Human Nutrition
BIOL 435  Introduction to Neurobiology
BIOL 440  Advanced Human Anatomy
BIOL 454  Brain Diseases and Neurological Disorders
BIOL 646  Mammalian Physiology
BIOL 647  Mammalian Physiology Laboratory
BIOL 655  Behavioral Genetics
PSYC 370  Behavioral Neuroscience
PSYC 380  Clinical Neuroscience

Category 4: Evolution, Culture, and Behavior
Evolutionary Biology. Satisfied by:
BIOL 412  Evolutionary Biology
Evolution, Culture, and Behavior. Satisfied by completing 6 hours selected from the following:
ANTH 341  Human Evolution
ANTH 415  The Rise of Civilization
ANTH 650  Human Reproduction: Biology and Behavior
ANTH 661  Cultural Dynamics
BIOL/GEOG 410  Human Biogeography, Honors
BIOL 428  Introduction to Systematics
BIOL 625  Behavioral Ecology and Sociobiology
BIOL 652  Comparative Animal Behavior

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator (http://clas.ku.edu/undergrad/tools/gpa).

Biology

Biology Concentration (14)
Majors must complete the following 32 hours. These additional science courses are included in the Human Biology-Biology major hours and GPA calculations.

Organic Chemistry I. Satisfied by one of the following: 3
CHEM 310  Fundamentals of Organic Chemistry
CHEM 330  Organic Chemistry I

Organic Chemistry I Laboratory. Satisfied by:
CHEM 331  Organic Chemistry I Laboratory 2

Physics II. Satisfied by one of the following: 4
PHSX 115  College Physics II
PHSX 212  General Physics II
& PHSX 236  General Physics II Laboratory

Principles of Genetics. Satisfied by one of the following: 4
BIOL 350  Principles of Genetics
BIOL 360  Principles of Genetics, Honors

Senior Seminar in Human Biology. Satisfied by:
BIOL 599  Senior Seminar: _____ (Must be taken in senior year.) 1

Biology Laboratory Electives. Course selections from the following categories must include at least 3 hours of laboratory credit, 400 level or above.

Biology Concentration Categories (18-20)
Satisfied by completing 2 of the following 4 categories listed below. 18-20
(18-20 hours required) (Course selections must include at least 3 hours of laboratory credit, 400 level or above.)

Category 1: Development and Genetics
Biology of Development. Satisfied by:
BIOL 417  Biology of Development

Development and Genetics. Satisfied by completing 6 hours from the following:
ABSC/PSYC 535  Developmental Psychopathology
ANTH 762  Human Growth and Development
BIOL 405  Laboratory in Genetics
BIOL 416  Cell Structure and Function
or BIOL 536  Cell Structure and Function (Honors)
BIOL 595  Human Genetics
BIOL 655  Behavioral Genetics
BIOL 688  The Molecular Biology of Cancer
PSYC 333  Child Development
PSYC 430  Cognitive Development

Major Hours & Major GPA
While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 33 hours of major courses.
PSYC 531 Language Development
SPLH 566 Language Development

Anatomy and Physiology
Mammalian Physiology. Satisfied by:
BIOL 646 Mammalian Physiology

Anatomy & Physiology. Satisfied by completing 6 hours from the following:
ANTH 542 Biology of Human Nutrition
ANTH 648 Human Osteology
BIOL 435 Introduction to Neurobiology
BIOL 440 Advanced Human Anatomy
BIOL 600 Introductory Biochemistry, Lectures
BIOL 637 Introductory Biochemistry Laboratory
BIOL 647 Mammalian Physiology Laboratory
PSYC 370 Behavioral Neuroscience
PSYC 375 Cognitive Neuroscience
PSYC 380 Clinical Neuroscience

Category 3: Evolution, Ecology, and Adaptation
Evolutionary Biology. Satisfied by:
BIOL 412 Evolutionary Biology
Evolution, Ecology, and Adaptation. Satisfied by completing 6 hours selected from the following:
ANTH 340 Human Variation and Evolution
ANTH 341 Human Evolution
ANTH 350 Human Adaptation
ANTH 652 Population Dynamics
BIOL 410 Human Biogeography, Honors
BIOL 414 Principles of Ecology
BIOL 668 Evolutionary Ecology
PSYC 555 Evolutionary Psychology

Category 4: Human Disease
Fundamentals of Microbiology. Satisfied by one of the following:
BIOL 400 Fundamentals of Microbiology
BIOL 401 Fundamentals of Microbiology, Honors

Human Disease. Satisfied by completing 6 hours selected from the following:
ANTH 555 Evolution of Human Diseases
BIOL 402 Fundamentals of Microbiology Laboratory
BIOL 503 Immunology
BIOL 504 Immunology Laboratory
BIOL 506 Bacterial Infectious Diseases
BIOL 507 Bacterial Infectious Diseases Laboratory
BIOL 512 General Virology
BIOL 513 Virology Laboratory
BIOL 518 Microbial Genetics
BIOL 519 Microbial Genetics Laboratory
BIOL 595 Human Genetics
BIOL 616 Medical Entomology
BIOL 688 The Molecular Biology of Cancer

Major Hours & Major GPA
While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

Major Hours
Satisfied by 32 hours of major courses.

Major Hours in Residence
Satisfied by a minimum of 15 hours of KU resident credit in the major.

Major Junior/Senior Hours
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

Major Junior/Senior Graduation GPA
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F’s and repeated courses. See the Semester/Cumulative GPA Calculator (http://clas.ku.edu/undergrad/tools/gpa).

Psychology

Psychology Concentration (13)
Majors must complete the following 31 hours. These additional science courses are included in the Human Biology-Psychology major hours and GPA calculations.

Organic Chemistry I. Satisfied by one of the following:
CHEM 310 Fundamentals of Organic Chemistry
CHEM 330 Organic Chemistry I

Organic Chemistry I Laboratory. Satisfied by:
CHEM 331 Organic Chemistry I Laboratory

Principles of Genetics. Satisfied by one of the following:
BIOL 350 Principles of Genetics
BIOL 360 Principles of Genetics, Honors

Research Methods. Satisfied by:
PSYC 200 Research Methods in Psychology

Senior Seminar in Human Biology. Satisfied by:
BIOL 599 Senior Seminar: _____ (Must be taken in senior year.)

Psychology Concentration Categories (18)
Satisfied by completing 2 of the following 4 categories listed below. (18 hours required)

Category 1: Evolution, Adaptation and Health
Satisfied by completing 9 hours selected from the following:
PSYC 555 Evolutionary Psychology
PSYC 605 Health Psychology
ANTH 340 Human Variation and Evolution
ANTH 341 Human Evolution
ANTH 350 Human Adaptation
ANTH 442 Anthropological Genetics
ANTH 447 Human Behavioral Genetics
ANTH 542 Biology of Human Nutrition
ANTH 555 Evolution of Human Diseases
BIOL 412 Evolutionary Biology
BIOL 595 Human Genetics

Category 2: Human Development
Child Development. Satisfied by:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 333</td>
<td>Child Development</td>
</tr>
<tr>
<td>PSYC 334</td>
<td>Child Development, Honors</td>
</tr>
<tr>
<td></td>
<td>Human Development. Satisfied by completing 6 hours selected from the following:</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>PSYC/ABSC</td>
<td>Developmental Psychopathology</td>
</tr>
<tr>
<td>535</td>
<td></td>
</tr>
<tr>
<td>PSYC/ABSC</td>
<td>Advanced Child Behavior and Development</td>
</tr>
<tr>
<td>632</td>
<td></td>
</tr>
<tr>
<td>BIOL 417</td>
<td>Biology of Development</td>
</tr>
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<td></td>
<td>Category 3: Human Cognition and Language</td>
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<td></td>
<td>Cognitive Psychology. Satisfied by:</td>
</tr>
<tr>
<td>PSYC 318</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td></td>
<td>Human Cognition &amp; Language. Satisfied by completing 6 hours selected from the following:</td>
</tr>
<tr>
<td>PSYC 418</td>
<td>Introduction to Cognitive Science</td>
</tr>
<tr>
<td>PSYC 482</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 518</td>
<td>Human Memory</td>
</tr>
<tr>
<td>PSYC 531</td>
<td>Language Development</td>
</tr>
<tr>
<td>PSYC 536</td>
<td>The Psychology of Language</td>
</tr>
<tr>
<td>SPLH 466</td>
<td>Language Science</td>
</tr>
<tr>
<td>SPLH 566</td>
<td>Language Development</td>
</tr>
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<td></td>
<td>Category 4: Neuroscience</td>
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<tr>
<td></td>
<td>Satisfied by completing 9 hours selected from the following:</td>
</tr>
<tr>
<td>PSYC 370</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>PSYC 375</td>
<td>Cognitive Neuroscience</td>
</tr>
<tr>
<td>PSYC 380</td>
<td>Clinical Neuroscience</td>
</tr>
<tr>
<td>ANTH 650</td>
<td>Human Reproduction: Biology and Behavior</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Introduction to Neurobiology</td>
</tr>
<tr>
<td>BIOL 454</td>
<td>Brain Diseases and Neurological Disorders</td>
</tr>
<tr>
<td>BIOL 655</td>
<td>Behavioral Genetics</td>
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<tr>
<td></td>
<td>Speech-Language-Hearing Concentration Categories (12)</td>
</tr>
<tr>
<td></td>
<td>Majors must complete the following 30 hours. These additional science courses are included in the Human Biology-Speech-Language-Hearing major hours and GPA calculations.</td>
</tr>
</tbody>
</table>

**Major Hours & Major GPA**

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 31 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator (http://clas.ku.edu/undergrad/tools/gpa).

**Speech-Language-Hearing**

Speech-Language-Hearing Concentration (12)
Majors must complete the following 30 hours. These additional science courses are included in the Human Biology-Speech-Language-Hearing major hours and GPA calculations.
Category 4: Research Practicum

Satisfied by completing 9 hours selected from the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPLH 464</td>
<td>Undergraduate Seminar in: _____ (Circuit Theory &amp; Bioinstrumentation)</td>
</tr>
<tr>
<td>SPLH 449</td>
<td>Laboratory/Field Work in Human Biology (various topics)</td>
</tr>
<tr>
<td>SPLH 499</td>
<td>Directed Study in Speech-Language-Hearing</td>
</tr>
</tbody>
</table>

Major Hours & Major GPA

While completing all required courses, majors must also meet each of the following hour and grade-point average minimum standards:

**Major Hours**
Satisfied by 30 hours of major courses.

**Major Hours in Residence**
Satisfied by a minimum of 15 hours of KU resident credit in the major.

**Major Junior/Senior Hours**
Satisfied by a minimum of 12 hours from junior/senior courses (300+) in the major.

**Major Junior/Senior Graduation GPA**
Satisfied by a minimum of a 2.0 KU GPA in junior/senior courses (300+) in the major. GPA calculations include all junior/senior courses in the field of study including F's and repeated courses. See the Semester/Cumulative GPA Calculator (http://clas.ku.edu/undergrad/tools/gpa).

Sample 4-year plans for the BA degree in Human Biology with concentrations in the following can be found here: Anthropology (http://catalog.ku.edu/liberal-arts-sciences/biology/anthropology), Applied Behavioral Science (http://catalog.ku.edu/liberal-arts-sciences/biology/applied-behavioral-science), Biology (http://catalog.ku.edu/liberal-arts-sciences/biology/biology), Psychology (http://catalog.ku.edu/liberal-arts-sciences/biology/psychology), and Speech-Language-Hearing (http://catalog.ku.edu/liberal-arts-sciences/biology/speech-language-hearing), or by using the left-side navigation.

Departmental Honors

Undergraduate majors are eligible to graduate with honors in biology if they fulfill the following requirements:

1. Complete all course work required for the appropriate degree in biology.
2. Achieve a minimum grade-point average of 3.25 overall and 3.5 in the major.
3. Complete BIOL 499 Introduction to Honors Research with a grade of B or higher.
4. Complete BIOL 699 Biology Honors Research Colloquium with a grade of B or higher.
5. Complete an independent research project under the supervision of a faculty member in an area appropriate to the degree sought.
6. Submit an honors thesis to the honors committee once the research is complete and present the results of the completed research at the honors research symposium.

Specific guidelines and intent forms are available in the Undergraduate Biology Program office and online (http://www.kuub.ku.edu). Candidates must declare their intent to graduate with honors at least 2 semesters before graduation.

Study Abroad

Consult an advisor at least 4 months before undertaking study abroad. Consult the Office of Study Abroad (http://www.studyabroad.ku.edu), 108 Lippincott Hall, for information about study in one of the many countries (e.g., Scotland, Australia, Switzerland) with special arrangements with KU.