Bachelor of Arts in Human Biology

Human Biology
This interdisciplinary major permits students to understand humans from a variety of academic viewpoints: anthropology, applied behavioral science, biology, psychology, and speech-language-hearing. Each human biology concentration offers major-level courses in topical categories that allow students to focus on areas that interest them most while retaining the interdisciplinary manner of the major. The broad nature of this major can prepare students for a variety of post-undergraduate opportunities.

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>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Human Evolutionary Biology</td>
<td>3</td>
</tr>
<tr>
<td>Biology Orientation Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Principles of Molecular &amp; Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Organismal Biology</td>
<td>3</td>
</tr>
<tr>
<td>Calculus</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Physics</td>
<td>4</td>
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</table>

Calculus. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Math Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 115</td>
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</tr>
<tr>
<td>&amp; MATH 116</td>
<td>4</td>
</tr>
<tr>
<td>MATH 125</td>
<td>4</td>
</tr>
<tr>
<td>MATH 145</td>
<td>4</td>
</tr>
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</table>

Chemistry I. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Chemistry Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 130</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 190</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 191</td>
<td>4</td>
</tr>
</tbody>
</table>

Chemistry II. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Chemistry Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 135</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 195</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 196</td>
<td>4</td>
</tr>
</tbody>
</table>

Physics I. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Physics Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 114</td>
<td>4</td>
</tr>
</tbody>
</table>
Bachelor of Arts in Human Biology

PHSX 211 General Physics I
& PHSX 216 and General Physics I Laboratory

Statistics. Satisfied by one of the following:
- BIOL 570 Introduction to Biostatistics (Recommended for the Anthropology and Biology Concentrations)
- PSYC 210 Statistics in Psychological Research (Recommended for the Psychology Concentration)
- MATH 365 Elementary Statistics

Anthropology Concentration

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: 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

Cell Structure & Function. Satisfied by one of the following: 3
- BIOL 416 Cell Structure and Function
- BIOL 536 Cell Structure and Function (Honors)

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

Anthropology Concentration Categories (18-21)
Satisfied by completing 2 of the following 4 categories (18-21 hours 18-21 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 546 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
- ANTH 549 Human Paleontology: Fossil Apes to Australopithecus
- ANTH 550 Human Paleontology: Homo Erectus to Homo Sapiens

Category 4: Human Biology and Behavior
Satisfied by completing 9 hours from the following:
- ANTH 359 Anthropology of Sex
- ANTH 447 Human Behavioral Genetics
- ANTH 461 Introduction to Medical Anthropology
- ANTH 754 Biological Bases of Human Behavior
- PSYC 370 Behavioral Neuroscience
- PSYC 536 The Psychology of Language

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).

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: 4
- 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 3

Development. Satisfied by one of the following:
- ABSC 160 Introduction to Child Behavior and Development 3
- PSYC 333 Child Development

Research Methods & Application. Satisfied by:
- ABSC 308 Research Methods and Application 4

Senior Seminar in Human Biology. Satisfied by:
**Bachelor of Arts in Human Biology**

**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.  
  Satisfied by:
  - ABSC 304 Principles and Procedures of Behavioral Interventions

- **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 Behavior**  
  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**
  Satisfied by:
  - BIOL 544 Comparative Animal Physiology

- **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 546 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 428 Introduction to Systematics
  - BIOL 625 Behavioral Ecology and Sociobiology
  - BIOL 652 Comparative Animal Behavior

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**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.

**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:  
  - CHEM 310 Fundamentals of Organic Chemistry
  - CHEM 330 Organic Chemistry I

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

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

- **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.)

**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 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
### Bachelor of Arts in Human Biology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOL 536</td>
<td>or BIOL 536 Cell Structure and Function (Honors)</td>
</tr>
<tr>
<td>BIOL 595</td>
<td>Human Genetics</td>
</tr>
<tr>
<td>BIOL 655</td>
<td>Behavioral Genetics</td>
</tr>
<tr>
<td>BIOL 688</td>
<td>The Molecular Biology of Cancer</td>
</tr>
<tr>
<td>PSYC 333</td>
<td>Child Development</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Cognitive Development</td>
</tr>
<tr>
<td>PSYC 531</td>
<td>Language Development</td>
</tr>
<tr>
<td>SPLH 566</td>
<td>Language Development</td>
</tr>
</tbody>
</table>

**Anatomy and Physiology**

Mammalian Physiology. Satisfied by:

- BIOL 546 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 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**

| Total Hours | 32-34 |

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 310</td>
<td>Fundamentals of Organic Chemistry</td>
</tr>
<tr>
<td>CHEM 330</td>
<td>Organic Chemistry I</td>
</tr>
</tbody>
</table>

**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.

| Total Hours | 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:
  PSYC 333  Child Development
  PSYC 334  Child Development, Honors
Human Development. Satisfied by completing 6 hours selected from the following:
  PSYC 430  Cognitive Development
  PSYC/ABSC  Developmental Psychopathology 535
  PSYC/ABSC  Advanced Child Behavior and Development 632
BIOL 417  Biology of Development
Category 3: Human Cognition and Language
Cognitive Psychology. Satisfied by:
  PSYC 318  Cognitive Psychology
Human Cognition & Language. Satisfied by completing 6 hours selected from the following:
  PSYC 418  Introduction to Cognitive Science
  PSYC 482  Sensation and Perception
  PSYC 518  Human Memory
  PSYC 531  Language Development
  PSYC 536  The Psychology of Language
  SPLH 466  Language Science
  SPLH 566  Language Development
Category 4: Neuroscience
Satisfied by completing 9 hours selected from the following:
  PSYC 370  Behavioral Neuroscience
  PSYC 375  Cognitive Neuroscience
  PSYC 380  Clinical Neuroscience
  ANTH 650  Human Reproduction: Biology and Behavior
  BIOL 435  Introduction to Neurobiology
  BIOL 454  Brain Diseases and Neurological Disorders
  BIOL 655  Behavioral Genetics

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).

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**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.

**Physics.** Satisfied by one of the following: 4
  - SPLH 120  The Physics of Speech
  - PHSX 115  College Physics II

**Research Methods.** Satisfied by:
  - SPLH 660  Research Methods in Speech-Language-Hearing 3

**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

**Speech-Language-Hearing Concentration Categories (18-19)**
Satisfied by completing 2 of the following 4 categories (18-19 hours 18-19 required).

**Category 1: Development and Genetics**
  - Biology of Development. Satisfied by:
    - BIOL 417  Biology of Development
  - Development and Genetics. Satisfied by completing 6 hours selected from the following:
    - 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
  - PSYC 333  Child Development
  - PSYC 430  Cognitive Development
  - SPLH 464  Undergraduate Seminar in: _____ or SPLH 764  Seminar in: _____
  - SPLH 466  Language Science
  - SPLH 566  Language Development

**Category 2: Anatomy and Physiology**
  - Mammalian Physiology. Satisfied by:
    - BIOL 546  Mammalian Physiology
  - Anatomy and Physiology. Satisfied by completing 6 hours selected from the following:
    - BIOL 440  Advanced Human Anatomy
    - BIOL 647  Mammalian Physiology Laboratory
    - SPLH 462  Principles of Speech Science
    - SPLH 463  Principles of Hearing Science

**Category 3: Neuroscience**
  - Physiology of Organisms. Satisfied by:
    - BIOL 544  Comparative Animal Physiology
  - Neuroscience. Satisfied by completing 6 hours selected from the following:
    - BIOL 435  Introduction to Neurobiology
    - PSYC 370  Behavioral Neuroscience
    - PSYC 375  Cognitive Neuroscience
### 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).


### 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.

Students majoring in Human Biology with Anthropology, Applied Behavioral Science, Psychology, or Speech-Language-Hearing concentrations will follow the honors requirements for their respective concentration department.

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.