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.isss.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>Title</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 &amp; 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>MATH 115</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 116</td>
<td>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>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>PHYS 114</td>
<td>College Physics I</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics I</td>
</tr>
<tr>
<td>PHYS 216</td>
<td>and General Physics I Laboratory</td>
</tr>
<tr>
<td>BIOL 570</td>
<td>Introduction to Biostatistics (Recommended for the Anthropology and Biology Concentrations)</td>
</tr>
<tr>
<td>PSYC 210</td>
<td>Statistics in Psychological Research (Recommended for the Psychology Concentration)</td>
</tr>
</tbody>
</table>
Bachelor of Arts in Human Biology

MATH 365  Elementary Statistics

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: 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 required):

Category 1: Human Anatomy and Physiology
Biological 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

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

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 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
Satisfied by 33 hours of major courses.

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 GPA
Satisfied by a minimum of a 2.0 KU GPA in 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)

Major courses 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 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
- 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
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PSYC 531</td>
<td>Language Development</td>
</tr>
<tr>
<td>SPLH 566</td>
<td>Language Development</td>
</tr>
<tr>
<td>Anatomy and Physiology</td>
<td>Mammalian Physiology. Satisfied by:</td>
</tr>
<tr>
<td>BIOL 646</td>
<td>Mammalian Physiology</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology</td>
<td>Satisfied by completing 6 hours from the following:</td>
</tr>
<tr>
<td>ANTH 542</td>
<td>Biology of Human Nutrition</td>
</tr>
<tr>
<td>ANTH 648</td>
<td>Human Osteology</td>
</tr>
<tr>
<td>BIOL 435</td>
<td>Introduction to Neurobiology</td>
</tr>
<tr>
<td>BIOL 440</td>
<td>Advanced Human Anatomy</td>
</tr>
<tr>
<td>BIOL 600</td>
<td>Introductory Biochemistry, Lectures</td>
</tr>
<tr>
<td>BIOL 637</td>
<td>Introductory Biochemistry Laboratory</td>
</tr>
<tr>
<td>BIOL 647</td>
<td>Mammalian Physiology Laboratory</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>
</tbody>
</table>

**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                    |

**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.

**Organic Chemistry I**

Satisfied by one of the following: 3 hours

| CHEM 310 | Fundamentals of Organic Chemistry                  |
| CHEM 330 | Organic Chemistry I                                 |

**Organic Chemistry I Laboratory**

Satisfied by: 2 hours

| CHEM 331 | Organic Chemistry I Laboratory                      |

**Principles of Genetics**

Satisfied by one of the following: 4 hours

| BIOL 350 | Principles of Genetics                             |
| BIOL 360 | Principles of Genetics, Honors                      |

**Research Methods**

Satisfied by: 3 hours

| PSYC 200 | Research Methods in Psychology                     |

**Senior Seminar in Human Biology**

Satisfied by: 1 hour

| 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**

Satisfied by:

| ANTH 340 | Human Variation and Evolution                       |

**Category 3: Evolution, Ecology, and Adaptation**

**Category 4: 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                    |
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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 535  Developmental Psychopathology
PSYC/ABSC 632  Advanced Child Behavior and Development

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).

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:
SPLH 120  The Physics of Speech
PHSX 115  College Physics II

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

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.)

Speech-Language-Hearing Concentration Categories (18-19)
Satisfied by completing 2 of the following 4 categories (18-19 hours 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 646  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 408  Physiology of Organisms

Neuroscience. Satisfied by completing 6 hours selected from the following:
BIOL 435  Introduction to Neurobiology
PSYC 370  Behavioral Neuroscience
PSYC 375  Cognitive Neuroscience
PSYC 380  Clinical Neuroscience

SPLH 464  Undergraduate Seminar in: ____ (Neural Bases of Speech & Voice)
SPLH 464  Undergraduate Seminar in: ____ (Speech Motor Control)
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Category 4: Research Practicum
Satisfied by completing 9 hours selected from the following courses:

- SPLH 464 Undergraduate Seminar in: _____ (Circuit Theory & Bioinstrumentation)
- SPLH 449 Laboratory/Field Work in Human Biology (various topics)
- SPLH 499 Directed Study in Speech-Language-Hearing

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 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.