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 International Support 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.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BIOL 150</td>
<td>Principles of Molecuar and Cellular Biology</td>
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<td>BIOL 151</td>
<td>Principles of Molecuar and Cellular Biology, Honors</td>
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<td>BIOL 152</td>
<td>Principles of Organismal Biology</td>
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<tr>
<td>BIOL 153</td>
<td>Principles of Organismal Biology, Honors</td>
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<tr>
<td>CHEM 130</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHEM 135</td>
<td>General Chemistry II</td>
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<td>CHEM 190</td>
<td>Foundations of Chemistry I, Honors</td>
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<td>CHEM 191</td>
<td>Foundations of Chemistry I Laboratory, Honors</td>
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<td>CHEM 195</td>
<td>Foundations of Chemistry II, Honors</td>
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<td>CHEM 196</td>
<td>Foundations of Chemistry II Laboratory, Honors</td>
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<tr>
<td>MATH 115</td>
<td>Calculus I</td>
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<tr>
<td>MATH 116</td>
<td>Calculus I and Calculus II</td>
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<tr>
<td>MATH 125</td>
<td>Calculus I</td>
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<td>MATH 145</td>
<td>Calculus I, Honors</td>
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<td>PHSX 114</td>
<td>College Physics I</td>
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<td>PHSX 211</td>
<td>General Physics I</td>
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<td>PHSX 216</td>
<td>General Physics I Laboratory</td>
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Bachelor of Arts in Human Biology

**Anthropology**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>BIOL 570</td>
<td>Introduction to Biostatistics (Recommended for the Anthropology and Biology Concentrations)</td>
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</tr>
<tr>
<td>PSYC 210</td>
<td>Statistics in Psychological Research (Recommended for the Psychology Concentration)</td>
<td></td>
</tr>
<tr>
<td>MATH 365</td>
<td>Elementary Statistics</td>
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</table>

**Anthropology Concentration**

Majors must complete the following 31 hours. These additional science courses are included in the Human Biology-Anthoplogy 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**

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

**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 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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 570</td>
<td>Introduction to Biostatistics (Recommended for the Anthropology and Biology Concentrations)</td>
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<tr>
<td>PSYC 210</td>
<td>Statistics in Psychological Research (Recommended for the Psychology Concentration)</td>
<td></td>
</tr>
<tr>
<td>MATH 365</td>
<td>Elementary Statistics</td>
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</table>

**Applied Behavioral Science Concentration**

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**

Satisfied by completing 2 of the following 4 categories (18-19 hours 18-19 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 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
BIOL 428 Introduction to Systematics
BIOL 625 Behavioral Ecology and Sociobiology
BIOL 652 Comparative Animal Behavior

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

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<tr>
<th>Code</th>
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<tr>
<td></td>
<td><strong>Biology Concentration</strong></td>
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<td>Majors must complete the following 32 hours. These additional science courses are included in the Human Biology-Biology major hours and GPA calculations.</td>
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<td>Organic Chemistry I. Satisfied by one of the following:</td>
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<tr>
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<td>CHEM 310 Fundamentals of Organic Chemistry</td>
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<td>CHEM 330 Organic Chemistry I</td>
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<td>Organic Chemistry I Laboratory. Satisfied by:</td>
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<td>CHEM 331 Organic Chemistry I Laboratory</td>
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<td>Physics II. Satisfied by one of the following:</td>
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<td>PHSX 115 College Physics II</td>
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<td>PHSX 212 General Physics II</td>
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<td>&amp; PHSX 236 General Physics II Laboratory</td>
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<td>Principles of Genetics. Satisfied by one of the following:</td>
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<td>BIOL 350 Principles of Genetics</td>
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<td></td>
<td>BIOL 360 Principles of Genetics, Honors</td>
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<td>Senior Seminar in Human Biology. Satisfied by:</td>
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<td></td>
<td>BIOL 599 Senior Seminar: _____ (Must be taken in senior year.)</td>
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<td>Biology Laboratory Electives. Course selections from the following categories must include at least 3 hours of laboratory credit, 400 level or above.</td>
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<td></td>
<td>Biology Concentration Categories 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.)</td>
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<tr>
<td></td>
<td>Category 1: Development and Genetics</td>
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<td></td>
<td>Biology of Development. Satisfied by:</td>
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<tr>
<td></td>
<td>BIOL 417 Biology of Development</td>
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<td></td>
<td>Development and Genetics. Satisfied by completing 6 hours from the following:</td>
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<tr>
<td></td>
<td>ABSC/PSYC Developmental Psychopathology 535</td>
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<td></td>
<td>ANTH 762 Human Growth and Development</td>
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<td>BIOL 405 Laboratory in Genetics</td>
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<td>BIOL 416 Cell Structure and Function</td>
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<td></td>
<td>or BIOL 536 Cell Structure and Function (Honors)</td>
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<td></td>
<td>BIOL 595 Human Genetics</td>
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<td>BIOL 655 Behavioral Genetics</td>
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<tr>
<td></td>
<td>BIOL 688 The Molecular Biology of Cancer</td>
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<tr>
<td></td>
<td>PSYC 333 Child Development</td>
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<td></td>
<td>PSYC 430 Cognitive Development</td>
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</table>
PSYC 531  Language Development
SPLH 566  Language Development
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
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
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

Category 2: Human Development
Bachelor of Arts in Human Biology

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 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

<table>
<thead>
<tr>
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<tbody>
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<td>SPLH 120</td>
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<td>College Physics II</td>
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<td>SPLH 660</td>
<td>Research Methods in Speech-Language-Hearing</td>
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</tr>
<tr>
<td>BIOL 350</td>
<td>Principles of Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 360</td>
<td>Principles of Genetics, Honors</td>
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</tr>
<tr>
<td>BIOL 599</td>
<td>Senior Seminar: _____ (Must be taken in senior year.)</td>
<td>1</td>
</tr>
</tbody>
</table>

Speech-Language-Hearing Concentration Categories
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

**Category 2: Anatomy and Physiology**
Mammalian Physiology. Satisfied by:
- 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 435 Introduction to Neurobiology
- PSYC 370 Behavioral Neuroscience
Bachelor of Arts in Human Biology

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.