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>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 115</td>
<td>Calculus I</td>
</tr>
<tr>
<td>&amp; MATH 116</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 125</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 145</td>
<td>Calculus I, Honors</td>
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</tbody>
</table>

Chemistry I. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<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>&amp; CHEM 191</td>
<td>Foundations of Chemistry I Laboratory, Honors</td>
</tr>
</tbody>
</table>

Chemistry II. Satisfied by one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<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>&amp; CHEM 196</td>
<td>Foundations of Chemistry II Laboratory, Honors</td>
</tr>
</tbody>
</table>

Physics I. Satisfied by one of the following:

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<tr>
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<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 114</td>
<td>College Physics I</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

**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**
   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
   ABSC 160 Introduction to Child Behavior and Development 3
   PSYC 333 Child Development 3

**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.)

**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**
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

**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: 3
  - 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: 4
  - PHSX 115   College Physics II
  - PHSX 212 & PHSX 236 General Physics II and 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.)

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

- 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
- 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 (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:
- 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

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

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.)

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 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 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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<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PSYC 380</td>
<td>Clinical Neuroscience</td>
</tr>
<tr>
<td>SPLH 464</td>
<td>Undergraduate Seminar in: _____ (Neural Bases of Speech &amp; Voice)</td>
</tr>
<tr>
<td>SPLH 464</td>
<td>Undergraduate Seminar in: _____ (Speech Motor Control)</td>
</tr>
</tbody>
</table>

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 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.

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.