B.A. HUMAN BIOLOGY

KU Undergraduate Biology Program (www.kuub.ku.edu) For students entering KU in/after Fall 2016

**BIOLOGY**

Use this check sheet with your Degree Progress Report (DPR).

### KU Core Requirements

See [https://kucore.ku.edu/fulfilling-the-core](https://kucore.ku.edu/fulfilling-the-core) for approved KU Core courses and/or experiences. PSYC 104 recommended.

**Goal 1. Critical Thinking & Quantitative Literacy**

Outcome 1: (Can be satisfied by degree reqs.)

Goal 2. Communication

Outcome 1 [ ] (2 units of Outcome 1 satisfied by "First-year Writing" BA degree req of ENGL 101/equiv ACT/SAT/AP* and "Critical Reading & Writing" BA degree req of ENGL 102/105/AP.)

Outcome 2 [ ]

**Goal 3. Breadth of Knowledge**

Arts & Humanities [ ]

Social Sciences [ ]

Natural Sciences (Can be satisfied by degree reqs.)

**Goal 4. Culture & Diversity**

Outcome 1 [ ]

Outcome 2 [ ]

**Goal 5. Social Responsibility & Ethics**

[ ]

**Goal 6. Integration & Creativity**

(Can be satisfied by degree reqs.)

Second Language Proficiency/Third-Level & Additional Foreign Language Course. [ ] [ ] Demonstrate equivalent of initial 4 semesters in a language other than English OR demonstrate equivalent of initial 3 semesters of study in one language AND the equivalent of the initial semester of study in another language.

* Students who place in ENGL 102/105 by examination must complete ENGL 102/105 and another course meeting Goal 2, Learning Outcome 1 of the KU Core.

### General Science Requirements (min 33 h)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Biology Orientation Seminar (1)</td>
<td></td>
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<tr>
<td>ANTH 304</td>
<td>Fund Physical Anthropology (3–4)</td>
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<tr>
<td>BIOL 150/151</td>
<td>Prin Molecular &amp; Cell Biol (4)</td>
<td></td>
<td></td>
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<tr>
<td>BIOL 152/153</td>
<td>Prin Organismal Biology (4)</td>
<td></td>
<td></td>
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<tr>
<td>MATH 115 &amp; 116</td>
<td>Calculus I &amp; II (6)</td>
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<tr>
<td>MATH 121</td>
<td>Calc I (5)</td>
<td></td>
<td>OR MATH 125 Calc I (5)</td>
</tr>
</tbody>
</table>

Complete 2 of 4 categories below. Course selections must include ≥ 3 h of lab credit, 400-level or above: _____ (lab h) _____ (lab h)

- Development and Genetics Category (9 h):
  - BIOL 417 Biology of Development (3) **AND**
  - [ ] 6 h selected from the following: ABSC/PSYC 535 Developmental Psychopathology (3); ANTH 762 Human Growth & Development (3); BIOL 405 Lab in Genetics (2); BIOL 416/536 Cell Structure & Function (3); BIOL 595 Human Genetics (3); BIOL 655 Behavioral Genetics (3); BIOL 688 Molecular Biology of Cancer (3); PSYC 333 Child Development (3); PSYC 430 Cognitive Development (3); PSYC 531 Language Development (3); SPLH 566 Language Development (3)

- Anatomy and Physiology Category (10 h):
  - BIOL 646 Mammalian Physiology (4) **AND**
  - [ ] 6 h selected from the following: ANTH 542 Biology Human Nutrition (4); ANTH 648 Human Osteology (4); BIOL 435 Introd Neurobiology (3); BIOL 440 Advanced Human Anatomy (lect & lab ) (6); BIOL 600 Introd Biochemistry (3–4); BIOL 637 Introd Biochemistry Lab (2); BIOL 647 Mammalian Physiology Lab (2); PSYC 370 Behavioral Neuroscience (3); PSYC 375 or 475 Cognitive Neuroscience (3); PSYC 380 Clinical Neuroscience (3)

- Evolution, Ecology, and Adaptation Category (10 h):
  - BIOL 412 Evolutionary Biology (4) **AND**
  - [ ] 6 h selected from the following: ANTH 340 Human Variation & Evolution (3); ANTH 341 Human Evolution (3); ANTH 350 Human Adaptation (3); ANTH 652 Population Dynamics (3); BIOL 410 Human Biogeography, Honors (3); BIOL 414 Prin Ecology (3); BIOL 668 Evolutionary Ecology (3); PSYC 555 Evolutionary Psychology (3)

- Human Disease Category (9 h):
  - BIOL 400/401 Fundamentals of Microbiology (3–4) **AND**
  - [ ] 6 h selected from the following: BIOL 402 Microbiology Lab (2); ANTH 555 Evolution of Human Diseases (3); BIOL 503 Immunology (3); BIOL 504 Immunology Lab (2); BIOL 506 Bacterial Infectious Diseases (3); BIOL 507 Pathogenic Microbiology Lab (2); BIOL 512 General Virology (3); BIOL 513 Virology Lab (2); BIOL 518 Microbial Genetics (3); BIOL 519 Microbial Genetics Lab (2); BIOL 595 Human Genetics (3); BIOL 616 Medical Entomology (3); BIOL 688 Molecular Biology of Cancer (3)

### Biology Concentration Requirements (min 32 h)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 310</td>
<td>Fund Organic Chem (3)</td>
<td></td>
<td>OR PHSX 115 Col Physics I (4)</td>
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<tr>
<td>CHEM 330</td>
<td>Organic Chem I (3)</td>
<td></td>
<td>OR PHSX 211+216 General Physics I (5)</td>
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<tr>
<td>CHEM 331</td>
<td>Organic Chem I Lab (2)</td>
<td></td>
<td>OR BIOL 570 Intro Biostatistics (3)* <strong>OR</strong> PSYC 210 Statistics Psychol Research</td>
</tr>
</tbody>
</table>

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  - BIOL 417 Biology of Development (3) **AND**
  - [ ] 6 h selected from the following: ABSC/PSYC 535 Developmental Psychopathology (3); ANTH 762 Human Growth & Development (3); BIOL 405 Lab in Genetics (2); BIOL 416/536 Cell Structure & Function (3); BIOL 595 Human Genetics (3); BIOL 655 Behavioral Genetics (3); BIOL 688 Molecular Biology of Cancer (3); PSYC 333 Child Development (3); PSYC 430 Cognitive Development (3); PSYC 531 Language Development (3); SPLH 566 Language Development (3)

- Anatomy and Physiology Category (10 h):
  - BIOL 646 Mammalian Physiology (4) **AND**
  - [ ] 6 h selected from the following: ANTH 542 Biology Human Nutrition (4); ANTH 648 Human Osteology (4); BIOL 435 Introd Neurobiology (3); BIOL 440 Advanced Human Anatomy (lect & lab ) (6); BIOL 600 Introd Biochemistry (3–4); BIOL 637 Introd Biochemistry Lab (2); BIOL 647 Mammalian Physiology Lab (2); PSYC 370 Behavioral Neuroscience (3); PSYC 375 or 475 Cognitive Neuroscience (3); PSYC 380 Clinical Neuroscience (3)

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* Completing the minimum General Science and major requirements set forth above results in 65 overall h and 31 Jr/Sr h. Double majors must complete ≥ 15 h in the major (i.e., not in Core Reqs or General Science Reqs) that are unique to that major. 65 h 31 Jr/Sr h

* At least 120 h (of which 45 must be Jr/Sr h)—courses numbered 300 or above must be completed for graduation. 120 h 45 Jr/Sr h