### B.A. HUMAN BIOLOGY

**BIOLOGY**

- To learn about requirements for admission to the major, please visit our online course catalog page: [http://www2.ku.edu/~distinction/cgi-bin/admission368](http://www2.ku.edu/~distinction/cgi-bin/admission368)

#### GENERAL EDUCATION REQUIREMENTS (min 55 h)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Selections</th>
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<tbody>
<tr>
<td>Written Communication (9 h)</td>
<td>ENGL 101 □</td>
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<td>ENGL 102/105 □</td>
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<tr>
<td>Argument &amp; Reason (3 h)</td>
<td>COMS 130, COMS 230, PHIL 148, or PHIL 310 □</td>
</tr>
</tbody>
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**Principal course distribution requirements**

- Humanities (9 h): [Historical Studies (HT), Literature & Arts (HL), Philosophy & Religion (HR)]
- Social Sciences (9 h): [Society & Culture (SC), Public Affairs (SF), Individual Behavior (SI)]

**Second Language (16–20 h or proficiency):**

- Western Civilization (6 h): [HWC 204/114 □, HWC 205/115 □]
- Non-western Culture (NW) (3 h) [see [http://clas.ku.edu/undergrad/curriculum/non-western](http://clas.ku.edu/undergrad/curriculum/non-western)]

(Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements; refer to your DPR.)

#### GENERAL SCIENCE REQUIREMENTS (min 33 h)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Selections</th>
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<tbody>
<tr>
<td>ANTH 304 Fund Physical Anthropology (3–4)</td>
<td>□</td>
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<tr>
<td>BIOL 150/151 Prin Molecular &amp; Cell Biol (4)</td>
<td>□ CHEM 184/130I Foundations of Chemistry I (5)</td>
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<tr>
<td>BIOL 152/153 Prin Organismal Biology (4)</td>
<td>□ CHEM 188/135I Foundations of Chemistry II (5)</td>
</tr>
<tr>
<td>MATH 115 &amp; 116 Calculus I &amp; II (6) OR</td>
<td>□ PHSX 114 College Physics I (4) OR PHSX 211 (4)/PHSX 211+216 (5) Gen Physics I</td>
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<tr>
<td>MATH 121 Calculus I (5)</td>
<td>□ BIOL 570 Intro Biostatistics (3)* OR PSYC 210 Statistics Psychol Research (3)</td>
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<td>OR MATH 365 Elementary Statistics (3)</td>
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I CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.

#### BIOLOGY CONCENTRATION REQUIREMENTS (min 31 h)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Selections</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 622/310I Fund Organic Chem (3) OR</td>
<td>□ PHSX 115 Col Physics I (4) OR PHSX 212 (4)/PHSX 212+236 (5) Gen Physics II</td>
</tr>
<tr>
<td>CHEM 624/330I Organic Chem I (3)</td>
<td>□ BIOL 350/360 Principles of Genetics (3)</td>
</tr>
<tr>
<td>CHEM 625/331I Organic Chem I Lab (2)</td>
<td>□ BIOL 599 Senior Seminar: Human Biology (1)</td>
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<td>(must be taken Sr yr)</td>
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</tbody>
</table>

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- Complete 2 of 4 categories below. Course selections must include ≥ 3 h of lab credit, 400-level or above:
- - 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 Psych (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 Intro Neurobiology (3)
    - BIOL 440 Advanced Human Anatomy (lect & lab ) (6)
    - BIOL 600 Introd Biochemistry (4)
    - BIOL 637 Introd Biochemistry Lab (2)
    - BIOL 647 Mammalian Physiology Lab (2)
    - HSES 672 Exercise Physiology (3)
    - PSYC 370 Brain & Behavior (3)
    - PSYC 380 Brain & Pathology (3)
    - PSYC 475 Cognitive Neuroscience (3)
- - Evolution, Ecology, and Adaptation Category (9 h):
  - □ BIOL 412 Evolutionary Biology (3) **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) **AND**
  - □ 6 h selected from the following:
    - BIOL 402 Microbiology Lab (2)
    - ANTH 450 Adaptation and Disease (3)
    - BIOL 503 Immunology (3)
    - BIOL 504 Immunology Lab (2)
    - BIOL 506 Pathogenic Microbiology (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)

- 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 □

- Completing the minimum degree requirements set forth above results in 120 overall h and 30 Jr/Sr h. Double majors must complete ≥ 15 h in the major (i.e., not in General Education Requirements or General Science Requirements) that are unique to that major. 120 h □ 30 Jr/Sr h □

5/23/2013