

# B.A. HUMAN BIOLOGY

## BIOLOGY

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

**KU CORE REQUIREMENTS** See <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.) Outcome 2 (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)**

- BIOL 105 Biology Orientation Seminar (1)  CHEM 130 Chemistry I (5)
- ANTH 304 Fund Physical Anthropology (3-4)\*  CHEM 135 Chemistry II (5)
- BIOL 150/151 Prin Molecular & Cell Biol (4)  PHSX 114 College Physics I (4) **OR** PHSX 211+216 General Physics I (5)
- BIOL 152/153 Prin Organismal Biology (4)  BIOL 570 Intro Biostatistics (3-4)\*\* **OR** PSYC 210 Statistics Psychol Research
- MATH 115 & 116 Calculus I & II (6) **OR**  () (3) **OR** MATH 365 Elementary Statistics (3)
- MATH 125 Calc I (4)

\* Online only as of Spring 2017 for 3 h. Ask a human biology advisor for possible substitutes.

\*\* BIOL 570 is recommended for the Biology concentration. BIOL 570 increased to 4 h beginning Fall 2017.

**BIOLOGY CONCENTRATION REQUIREMENTS (min 32 h)**

- CHEM 310 Fund Organic Chem (3) **OR**  PHSX 115 Col Physics I (4) **OR** PHSX 212+236 General Physics II (4)
- CHEM 330 Organic Chem I (3)  BIOL 350/360 Principles of Genetics (4)
- CHEM 331 Organic Chem I Lab (2)  BIOL 599 Senior Seminar: Human Biology (1) (must be taken Sr yr)
- 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); 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)

- **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**