

# B.A. HUMAN BIOLOGY

## SPEECH-LANGUAGE-HEARING

Use this check sheet with your 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 34 h)**

- |  |   |   |                          |
|--|---|---|--------------------------|
| BIOL 105 Biology Orientation Seminar (1)     | <input type="checkbox"/>                              | CHEM 130 Chemistry I (5)  | <input type="checkbox"/> |
| ANTH 345 Intro Human Evolutionary Biol (4)   | <input type="checkbox"/>                              | CHEM 135 Chemistry II (5)   | <input type="checkbox"/> |
| BIOL 150/151 Prin Molecular & Cell Biol (4)  | <input type="checkbox"/>                              | PHSX 114 College Physics I (4) <b>OR</b> PHSX 211+216 General Physics I (5)     | <input type="checkbox"/> |
| BIOL 152/153 Prin Organismal Biology (4)     | <input type="checkbox"/>                              | BIOL 570 Intro Biostatistics (4) <b>OR</b> PSYC 210 Statistics Psychol Research | <input type="checkbox"/> |
| MATH 115 & 116 Calculus I & II (6) <b>OR</b> | <input type="checkbox"/> ( <input type="checkbox"/> ) | (3) <b>OR</b> MATH 365 Elementary Statistics (3)                                |                          |
| MATH 125 Calc I (4)                          |   |   |                          |

**SPEECH-LANGUAGE-HEARING CONCENTRATION REQUIREMENTS (min 30 h)**

- |  |                          |  |                          |
|--|--------------------------|--|--------------------------|
| SPLH 120 Physics of Speech (4) <b>OR</b> PHSX 115 Col Physics II (4) | <input type="checkbox"/> | BIOL 350/360 Principles of Genetics (4)                          | <input type="checkbox"/> |
| SPLH 660 Research Methods Human Communication (3)                    | <input type="checkbox"/> | BIOL 599 Senior Seminar: Human Biology (1) (must be taken Sr yr) | <input type="checkbox"/> |

**Complete 2 of the 4 categories below:**

**- Development & Genetics Category (9 h):**

- BIOL 417 Biology of Development (3) **AND**
- () **6 h selected from the following:** ANTH 762 Human Growth & Development (3); BIOL 405 Lab in Genetics (2); BIOL 416 Cell Structure & Function (3); BIOL 595 Human Genetics (3); BIOL 655 Behavioral Genetics (3); PSYC 333 Child Development (3); PSYC 430 Cognitive Development (3); SPLH 464/764 Undergraduate Seminar in: Infant Development (2); SPLH 466 Language Science (3); SPLH 566 Language Development (3)

**- Anatomy & Physiology Category (9 h):**

- BIOL 546 Mammalian Physiology (3) (formerly BIOL 646 for 4 h) **AND**
- 6 h selected from the following:** BIOL 440 Advanced Human Anatomy (lect & lab) (6); BIOL 647 or BIOL 547 Mammalian Physiology Lab (2); SPLH 462 or 662 Principles of Speech Science (3); SPLH 463 or 663 Principles of Hearing Science (3)

**- Neuroscience Category (9 h):**

- BIOL 408 Physiology of Organisms (3) (discontinued as of Fall 2017; BIOL 644 or BIOL 544 Comparative Animal Physiology can substitute) **AND**
- () **6 h selected from the following:** BIOL 435 Intro Neurobiology (3); PSYC 370 Behavioral Neuroscience (3); PSYC 375 or PSYC 475 Cognitive Neuroscience (3); PSYC 380 Clinical Neuroscience (3); SPLH 320 Communicating Brain: Ultmt Prsnl Computer (3); SPLH 464 Undergrad Seminar: Neural Bases of Speech & Voice (2); SPLH 464 Undergrad Seminar: Speech Motor Control

**- Research Practicum (9 h)\*:**

- 9 h selected from the following:** SPLH 464 Undergrad Seminar: Circuit Theory & Bioinstrumentation; SPLH 449 Lab/Field Work in Human Biology (Topics: orofacial neurophysiology; deep brain stimulation in progressive neuromotor disease; perceptual neuroscience and functional brain imaging; neuroscience of the premature human infant; brain-behavior mapping of language); SPLH 499 Directed Study in SPLH

- **Completing the minimum General Science and major requirements** set forth above results in **64 overall h** and **30 Jr/Sr h**. Double majors must complete  $\geq 15$  h in the major (i.e., not in Core Reqs or General Science Reqs) that are *unique* to that major. **64 h**  **30 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**

SPLH courses are recommended for the Speech-Language-Hearing concentration for fulfilling the requirements in each area.

\* Research practicum courses must be arranged with the course instructor prior to enrollment.