

# B.A. HUMAN BIOLOGY

## SPEECH-LANGUAGE-HEARING

Use this check sheet with your DPR.

To learn about requirements for admission to the major, please visit the online course catalog: <http://catalog.ku.edu/201314/schools/cas/departments/biol/admission>

**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  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

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)

- ANTH 304 Fund Physical Anthropology (3-4)  CHEM 130 Chemistry I (5)
- BIOL 150/151 Prin Molecular & Cell Biology (4)  CHEM 135 Chemistry II (5)
- BIOL 152/153 Prin of Organismal Biology (4)  PHSX 114 Col Physics I (4) **OR** PHSX 211+216 Gen Physics I (5)
- MATH 115 & 116 Calculus I & II (6) **OR**  ( BIOL 570 Intro to Biostatistics (3) **OR** PSYC 210 Statistics Psychol Research (3)
- MATH 121 Calculus I (5)  **OR** MATH 365 Elementary Statistics (3)

### SPEECH-LANGUAGE-HEARING CONCENTRATION REQUIREMENTS (min 29 h)

- SPLH 120 Physics of Speech (4) **OR** PHSX 115 Col Physics II (4)  BIOL 350/360 Principles of Genetics (3-4)
- SPLH 660 Research Methods Human Communication (3)  BIOL 599 Senior Seminar: Human Biology (1) (must be taken Sr yr)

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 (10 h):**

- BIOL 646 Mammalian Physiology (4) **AND**
- 6 h selected from the following: BIOL 440 Advanced Human Anatomy (lect & lab) (6); BIOL 647 Mammalian Physiology Lab (2); SPLH 662 Principles of Speech Science (3); SPLH 663 Principles of Hearing Science (3); HSES 672 Exercise Physiology (3)

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

- BIOL 408 Physiology of Organisms (3) **AND**
- ( 6 h selected from the following: BIOL 435 Intro Neurobiology (3); PSYC 370 Behavioral Neuroscience (3); PSYC 380 Clinical Neuroscience (3); PSYC 475 Cognitive Neuroscience (3); SPLH 320 Communicating Brain: Ultmt Prsnl Cmpt (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 **62 overall h** and **28 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. **62 h  28 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.