

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 33 h)

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| BIOL 105 Biology Orientation Seminar (1) <input type="checkbox"/> | CHEM 130 Chemistry I (5) <input type="checkbox"/> |
| ANTH 304 Fund Physical Anthropology (3-4)* <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) OR PHSX 211+216 General Physics I (5) <input type="checkbox"/> |
| BIOL 152/153 Prin Organismal Biology (4) <input type="checkbox"/> | BIOL 570 Intro Biostatistics (3-4)** OR PSYC 210 Statistics Psychol Research <input type="checkbox"/> |
| MATH 115 & 116 Calculus I & II (6) OR <input type="checkbox"/> (<input type="checkbox"/>) | (3) OR MATH 365 Elementary Statistics (3) <input type="checkbox"/> |
| MATH 125 Calc I (4) <input type="checkbox"/> | |

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

** BIOL 570 increased to 4 h beginning Fall 2017.

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

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|---|---|
| SPLH 120 Physics of Speech (4) OR 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 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 **63 overall h** and **29 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. **63 h** **29 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.