

B.A. HUMAN BIOLOGY

SPEECH-LANGUAGE-HEARING

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

GENERAL EDUCATION REQUIREMENTS (min 55 h)

- Written Communication (9 h): ENGL 101 ENGL 102/105 ENGL 203, 205, 209, 210, or 211
- Argument & Reason (3 h): COMS 130, COMS 230, PHIL 148, or PHIL 310
- Principal course distribution requirements (see http://www.collegesas.ku.edu/pnwc/principal_courses.shtml):
- 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)*
- *PSYC 104 recommended for SI course.
- 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://www.collegesas.ku.edu/pnwc/nonwest_culture_courses.shtml):
- (Math and Natural Science requirements are usually met by fulfilling the Human Biology requirements; refer to your DPR.)

GENERAL SCIENCE REQUIREMENTS (min 33 h)

- ANTH 304 Fund Physical Anthropology (3–4) CHEM 184/130[§] Foundations of Chemistry I (5)
- BIOL 150/151 Prin Molecular & Cell Biology (4) CHEM 188/135[§] Foundations of Chemistry II (5)
- BIOL 152/153 Prin of Organismal Biology (4) PHSX 114 Col Physics I (4) **OR** PHSX 211 (4)/ PHSX 211+216[^] (5) Gen Physics I
- MATH 115 & 116 Calculus I & II (6) **OR** () BIOL 570 Intro to Biostatistics (3) **OR** PSYC 210 Statistics Psychol Research
- MATH 121 Calculus I (5) (3) **OR** MATH 365 Elementary Statistics (3)

[§] CHEM course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.

[^] PHSX course numbers change beginning Fall 2013. Refer to your Degree Progress Report (DPR) and classes.ku.edu.

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)
- 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 Brain & Behavior (3); PSYC 380 Brain & Pathology (3); PSYC 475 Cognitive Neuroscience (3); SPLH 320 Neuroscience of Human Communication (2); 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

- **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 **118 overall h** and **28 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. **118 h** **28 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.