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

**KU CORE REQUIREMENTS** See [https://kucore.ku.edu/fulfilling-the-core](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.)

**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)
- **BIOL 150/151** Prin Molecular & Cell Biology (4)
- **BIOL 152/153** Prin of Organismal Biology (4)
- **MATH 115 & 116** Calculus I & II (6) OR **MATH 121** Calculus I (5)
- **CHEM 130** Chemistry I (5)
- **CHEM 135** Chemistry II (5)
- **PHSX 114** Col Physics I (4) OR **PHSX 211+216** Gen Physics I (5)
- **BIOL 570** Intro to Biostatistics (3) OR **PSYC 210** Statistics Psychol Research (3)
- **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)
- **SPLH 660** Research Methods Human Communication (3)
- **Biol 350/360 Principles of Genetics (3-4)**
- **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 (2); **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 ≥ 15 h in the major (i.e., not in Core Reqs or General Science Reqs) that are unique to that major.

- At least 120 h (of which 45 must be Jr/Sr h)—courses numbered 300 or above—must be completed for graduation.

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

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