

B.S. BIOLOGY

NEUROBIOLOGY

Use with your Degree Progress Report (DPR).

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

KU CORE REQUIREMENTS See <https://kucore.ku.edu/fulfilling-the-core> for approved KU Core courses and/or experiences.

Goal 1. Critical Thinking & Quantitative Literacy	Outcome 1 <input type="checkbox"/>	Outcome 2 (Can be satisfied by degree reqs.)
Goal 2. Communication	Outcome 1 <input type="checkbox"/> <input type="checkbox"/>	Outcome 2 <input type="checkbox"/>
Goal 3. Breadth of Knowledge	Arts & Humanities <input type="checkbox"/>	Social Sciences <input type="checkbox"/>
Goal 4. Culture & Diversity	Outcome 1 <input type="checkbox"/>	Natural Sciences (Can be satisfied by degree reqs.)
Goal 5. Social Responsibility & Ethics	Outcome 2 <input type="checkbox"/>	
Goal 6. Integration & Creativity	<input type="checkbox"/>	

BS GENERAL EDUCATION REQUIREMENTS Focus on completing KU Core reqs first. Refer to your DPR and talk with a biology advisor.

GENERAL SCIENCE REQUIREMENTS (31–33 h)

CHEM 130 Foundations of Chemistry I (5)	<input type="checkbox"/>	CHEM 335 Organic Chemistry II (3)	<input type="checkbox"/>
CHEM 135 Foundations of Chemistry II (5)	<input type="checkbox"/>	MATH 121 Calculus I (5) OR MATH 115 & 116 Calculus I & II (6)	<input type="checkbox"/> (<input type="checkbox"/>)
CHEM 330 Organic Chemistry I (3)	<input type="checkbox"/>	PHSX 114 & 115 College Physics I & II (8) OR	<input type="checkbox"/> <input type="checkbox"/>
CHEM 331 Organic Chemistry I Lab (2)	<input type="checkbox"/>	PHSX 211+216 & 212+236 Gen. Physics I & II (9)	

GENERAL BIOLOGY REQUIREMENTS (21–23 h)

BIOL 150/151 Prin Molecular & Cell Biol (4)	<input type="checkbox"/>	BIOL 413 History & Diversity of Organisms (3) OR	<input type="checkbox"/>
BIOL 152/153 Prin Organismal Biology (4)	<input type="checkbox"/>	BIOL 414 Principles of Ecology (3)	
BIOL 350/360 Principles of Genetics (3-4)	<input type="checkbox"/>	BIOL 600 Introductory Biochemistry, Lectures (4) OR	<input type="checkbox"/> (<input type="checkbox"/>)
BIOL 412 Evolutionary Biology (3-4)	<input type="checkbox"/>	BIOL 636 Biochemistry I & BIOL 638 Biochemistry II (6)	

NEUROBIOLOGY REQUIREMENTS (15–16 h)

BIOL 416/536 Cell Structure and Function (3)	<input type="checkbox"/>	BIOL 435 Introduction to Neurobiology (3)	<input type="checkbox"/>
BIOL 417 Biology of Development (3)	<input type="checkbox"/>	BIOL 650 Advanced Neurobiology (3)	<input type="checkbox"/>
BIOL 405 Laboratory in Genetics (2) OR	<input type="checkbox"/>	BIOL 599 Senior Seminar: Neurobiology (1) (must be taken Sr yr)	<input type="checkbox"/>
BIOL 426 Laboratory in Cell Biology (3) OR			
BIOL 427 Developmental Biology Lab (2)			

NEUROBIOLOGY ELECTIVE REQUIREMENTS (12 h):

Select at least three courses from the following list (≥ 9 h):

BIOL 454 Brain Diseases & Neurological Disorders (3)	BIOL 672 Gene Expression (3)
BIOL 570 Introduction to Biostatistics (3)	BIOL 673 Cellular and Molecular Neurobiology (3)
BIOL 646 Mammalian Physiology (4)	BIOL 676 Mammalian Neuroanatomy (3)
BIOL 647 Mammalian Physiology Laboratory (2)	BIOL 755 Mechanisms of Development (3)
BIOL 652 Comparative Animal Behavior (3)	BIOL 775 Chemistry of the Nervous System (3)
BIOL 655 Behavioral Genetics (3)	BIOL 777 Integrative and Developmental Neurobiology (3)

Additional electives can be chosen from any BIOL courses numbered 400 or above (≥ 3 h): BIOL _____ (__ h)

- **Completing the minimum General Science and major requirements** set forth above results in **79 overall h** and **48 Jr/Sr h**. Double majors must complete ≥ 15 h in the major (i.e., not in Core/Gen Ed Req's or General Science Req's) that are *unique* to that major. **79 h** **48 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**