KU Undergraduate Biology Program (www.kuub.ku.edu) For students entering KU from Fall 2013 through Spring 2014

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 ☐ 
Outcome 2 (Can be satisfied by degree reqs.)

Goal 2. Communication
Outcome 1 ☐ 
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
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Goal 6. Integration & Creativity
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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) ☐ 
CHEM 135 Foundations of Chemistry II (5) ☐ 
CHEM 330 Organic Chemistry I (3) ☐ 
CHEM 331 Organic Chemistry I Lab (2) ☐ 

MATH 121 Calculus I (5) OR MATH 115 & 116 Calculus I & II (6) ☐ ( ☐)

CHEM 335 Organic Chemistry II (3) ☐ 
CHEM 330 Organic Chemistry I (3) ☐

PHSX 114 & 115 College Physics I & II (8) OR ☐ 
PHSX 211+216 & 212+236 Gen. Physics I & II (9) ☐

GENERAL BIOLOGY REQUIREMENTS (21–23 h)
BIOL 150/151 Prin Molecular & Cell Biol (4) ☐ 
BIOL 152/153 Prin Organismal Biology (4) ☐

BIOL 350/360 Principles of Genetics (3-4) ☐ 
BIOL 412 Evolutionary Biology (3-4) ☐

BIOL 413 History & Diversity of Organisms (3) OR ☐
BIOL 414 Principles of Ecology (3) ☐ 
BIOL 600 Introductory Biochemistry, Lectures (4) OR ☐ 
BIOL 636 Biochemistry I & BIOL 638 Biochemistry II (6) ☐

NEUROBIOLOGY REQUIREMENTS (15–16 h)
BIOL 415/536 Cell Structure and Function (3) ☐ 
BIOL 417 Biology of Development (3) ☐ 
BIOL 405 Laboratory in Genetics (2) OR ☐
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 570 Introduction to Biostatistics (3) ☐ 
BIOL 646 Mammalian Physiology (4) ☐ 
BIOL 647 Mammalian Physiology Laboratory (2) ☐ 
BIOL 652 Comparative Animal Behavior (3) ☐ 
BIOL 655 Behavioral Genetics (3) ☐

BIOL 435 Introduction to Neurobiology (3) ☐ 
BIOL 650 Advanced Neurobiology (3) ☐ 
BIOL 599 Senior Seminar: Neurobiology (1) (must be taken Sr yr) ☐

BIOL 672 Gene Expression (3) ☐ 
BIOL 673 Cellular and Molecular Neurobiology (3) ☐ 
BIOL 676 Mammalian Neuroanatomy (3) ☐

BIOL 755 Mechanisms of Development (3) ☐ 
BIOL 775 Chemistry of the Nervous System (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 Reqs or General Science Reqs) 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 ☐

3/14/2014