

B.S. BIOLOGY

NEUROBIOLOGY

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 (33 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

Western Civilization (6 h): HWC 204/114 HWC 205/115

Principal course and/or second language requirements (No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement: http://clas.ku.edu/undergrad/curriculum/principal_courses)

Social Science (3 h) (SC/SF/SI): Humanities (3 h) (HL/HR/HT):

3 additional courses in social sciences (SC/SF/SI), humanities, (HL/HR/HT), and/or second language: _____ _____ _____

Note: Students are encouraged to consider neuroscience related courses in Psychology, Speech-Language-Hearing, and Applied Behavioral Science for their principal course and/or second language requirements.

GENERAL SCIENCE REQUIREMENTS (31–33 h)

CHEM 184/130[§] Foundations of Chemistry I (5) CHEM 626/335[§] Organic Chemistry II (3)

CHEM 188/135[§] Foundations of Chemistry II (5) MATH 121 Calculus I (5) **OR** MATH 115 & 116 Calculus I & II (6) ()

CHEM 624/330[§] Organic Chemistry I (3) PHSX 114 & 115 College Physics I & II (8) **OR**

CHEM 625/331[§] Organic Chemistry I Lab (2) PHSX 211 & 212 (8)/PHSX 211+216 & 212+236[^] (9) Gen. Physics I & II

[§] 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.

GENERAL BIOLOGY REQUIREMENTS (21–23 h)

BIOL 150/151 Prin Molecular & Cell Biol (4) BIOL 413 History & Diversity of Organisms (3) **OR**

BIOL 152/153 Prin Organismal Biology (4) BIOL 414 Principles of Ecology (3)

BIOL 350/360 Principles of Genetics (3) BIOL 600 Introductory Biochemistry, Lectures (4) **OR** ()

BIOL 412 Evolutionary Biology (3) BIOL 636 Biochemistry I & BIOL 638 Biochemistry II (6)

NEUROBIOLOGY REQUIREMENTS (15–16 h)

BIOL 416/536 Cell Structure and Function (3) BIOL 435 Introduction to Neurobiology (3)

BIOL 417 Biology of Development (3) BIOL 650 Advanced Neurobiology (3)

BIOL 405 Laboratory in Genetics (2) **OR** BIOL 599 Senior Seminar: Neurobiology (1) (*must be taken Sr yr*)

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)

- 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 **113 overall h** and **48 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. **113 h** **48 Jr/Sr h**