NEUROBIOLOGY

BACHELOR OF SCIENCE

At least 124 hrs. (of which 45 must be Jr/Sr hrs.—courses numbered 300 or above) must be completed for graduation.

Completing the minimum requirements listed on this sheet will result in 113 overall hrs. and 49 Jr/Sr hrs.

Double majors must complete at least 15 hrs. unique to the major.

I. General College Requirements (33 hrs):

- English (9 hrs): ENGL 101 (or 105) \text{ OR } ENGL 102 (or 105) \text{ OR } ENGL 203 (or 205, 209, 210, 211)
- Argument & Reason (3 hrs., one of the following): COMS 130, 230, PHIL 148, 310
- Western Civilization (6 hrs): HWC 204 (or 114) \text{ OR } HWC 205 (or 115)

Principal Course and/or Foreign Language Requirements

(No more than one course from each topical subgroup from the principal course list can be applied toward fulfillment of this requirement. See:
http://www2.ku.edu/~deansprov/principal_courses.htm)

Social Science (3 hrs) \text{ OR } Humanities (3 hrs) \text{ OR } and three additional courses in foreign language, social sciences, or humanities:

Note: Students are encouraged to consider Neuroscience-related courses in Psychology, Speech Language and Hearing, and Applied Behavior Sciences for their distribution requirements.

II. General Science Requirements (31-32 hrs):

- CHEM 184 Foundations of Chemistry I (5 hrs)
- CHEM 188 Foundations of Chemistry II (5 hrs)
- CHEM 624 Organic Chemistry I (3 hrs)
- CHEM 625 Organic Chemistry I lab (2 hrs)
- CHEM 626 Organic Chemistry II (3 hrs)
- MATH 121 Calculus I (3 hrs) \text{ OR } MATH 115 and MATH 116 Calculus I & II (6 hrs)
- PSXH 211 and PHSX 212 Gen. Physics I & II (8 hrs) \text{ OR }

III. General Biology Requirements (21-23 hrs):

- BIOL 150 (or 151, Honors) Principles of Molecular & Cellular Biology (4 hrs)
- BIOL 152 (or 153, Honors) Principles of Organismal Biology (4 hrs)
- BIOL 350 Introduction to Genetics (3 hrs)
- BIOL 412 Evolutionary Biology (3 hrs)

IV. Neurobiology Requirements (19 hrs):

- BIOL 416 Cell Structure and Function (3 hrs)
- BIOL 417 Biology of Development (3 hrs)
- BIOL 426 Cell Biology lab (3 hrs)
- BIOL 435 Intro. to Neurobiology (3 hrs)
- BIOL 650 Advanced Neurobiology (3 hrs)
- BIOL 676 Mammalian Neuroanatomy (3 hrs)
- BIOL 599 Senior Seminar in Neurobiology (1 hr) \text{ (must be taken in senior year)}

V. Neurobiology Electives (9 hrs):

Select at least two courses from the following list:

- BIOL 454 Brain Diseases and Neurological Disorders
- BIOL 570 Introduction to Biostatistics
- BIOL 646 Mammalian Physiology (lab 647)
- BIOL 652 Animal Behavior
- BIOL 672 Gene Expression
- BIOL 673 Cellular and Molecular Neurobiology
- BIOL 550 Development of Development
- BIOL 775 Chemistry of the Nervous System
- BIOL 777 Integrative and Developmental Neurobiology

Additional electives can be chosen from any BIOL courses at the 400-level or above. No more than 3 hrs. of BIOL 423 Note-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.

7/27/2009