NEUROBIOLOGY

BACHELOR OF SCIENCE

At least 124 hrs (45 Junior/Senior hrs) must be completed for graduation. Double majors must complete at least 15 hrs unique to each major.

I. General College Requirements (33 hrs):

English (9 hrs): ENGL 101 ___; ENGL 102 (or 105) ___; ENGL 203 (or 205, 209, 210, 211) ___
Oral Communication/Logic (3 hrs): COMS 130/230, PHIL 148/310, ***OR*** Exemption/Examination ___
Western Civilization (6 hrs): HWC 204 (or 114) ___ and 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 Undergraduate Catalog and Timetable for list of principal courses and topical subgroups.):*
Social Science (3 hrs) ___; ***Humanities (3 hrs)*** ___; 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 (5 hrs) ***OR*** MATH 115 and MATH 116 Calculus I & II (6 hrs)
_____ PHSX 114 & PHSX 115 Coll. Physics I & II (8 hrs) ***OR*** PHSX 211 and PHSX 212 Gen. Physics I & II (8 hrs)

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)
_____ BIOL 413 Diversity of Organisms ***OR*** BIOL 414 Principles of Ecology (3 hrs)
_____ BIOL 600 Introductory Biochemistry (4 hrs) ***OR*** BIOL 636 Biochemistry I and BIOL 638 Biochemistry II (6 hrs)

IV. Neurobiology Requirements (19 hrs):

_____ BIOL 416 Cell Structure and Function (3 hrs)
_____ BIOL 426 Cell Biology lab (3 hrs)
_____ BIOL 417 Biology of Development (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)

V. Neurobiology Electives (9 hrs):

_____, _____ **Select <u>at least two courses</u> 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 755 Control Mechanisms 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 Non-Lab Independent Study and/or BIOL 424 Independent Study (combined) can be applied towards the elective requirement.