

Neuroscience and Behavior

Neuroscience and Behavior offers a program of study in disciplines important to understanding brain function. This is an intercollege major that brings together topics in neurobiology (anatomy, physiology, neurochemistry, genetics) with elements of psychology and cognitive science. Students will complete a series of foundation courses in biology, chemistry, physics, and statistics that include many of the courses required for medical school as well as core courses and electives in integrative neuroscience or animal behavior. Students will develop critical thinking and oral and written communication skills by actively exploring the content, theory, and methods of the neurosciences. The program provides strong preparation for entry into graduate programs in neuroscience, behavior, pharmacology, and medicine. The Psychology and Biological Sciences departments administer the program jointly. The degree awarded is the BS.

Degree Requirements: enrollment to UNH prior Fall 2015

Foundation Courses (required for all students)

BIOL 411	Introductory Biology: Molecular and Cellular (Bio Discovery)
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology
BIOL 528 or PSYC 402	Applied Biostatistics I or Statistics in Psychology (Quantitative Reasoning Discovery)
BMCB 658/659	General Biochemistry/Lab
CHEM 403	General Chemistry I (Physical Science Discovery)
CHEM 404	General Chemistry II
CHEM 545/546	Organic Chemistry/Lab
NSB 400	Topics in Neuroscience & Behavior
PHYS 401, 402 or 407	Introduction to Physics I (402 recommended)

Take three of the following Core Courses:

GEN 604	Principles of Genetics
PSYC 531	Psychobiology
PSYC 733 (C)	Drugs and Behavior
ZOOL 713	Animal Behavior
ZOOL 777	Neurobiology and Behavior

Electives - choose 4 from the list below or from the Core Courses

BIOL 541	General Ecology
BMCB 605	Eukaryotic Cell and Developmental Biology
BMS 507/508	Anatomy & Physiology
BMS 702	Endocrinology
BMS 711	Toxicology
BMS 718	Mammalian Physiology
GEN 706	Human Genetics
KIN 706/707	Neurology
MEFB 714 (SML) (C)	Field Animal Behavior
NR 615	Wildlife Habitats

NR 640 or 741	Wildlife Population Dynamics
NR 650	Principles of Conservation Biology
NR 655	Vertebrate Biology
NR 740	Inventory and Monitoring
NSB 727	Animal Communication
PHIL 630	Neuroscience and Philosophy
PSYC 511	Sensation and Perception
PSYC 512	Psychology of Primates
PSYC 513	Cognition
PSYC 521	Behavior Analysis
PSYC 710 (C)	Visual Perception
PSYC 720 (C)	Animal Cognition
PSYC 731 (C)	Brain and Behavior
PSYC 735 (C)	Neurobiology of Mood Disorders
PSYC 736 (C)	Attention Disorders
PSYC 737 (C)	Behavioral Medicine
PSYC 741W (C)	Addictive Behavior
PSYC 741W (C)	Behavioral Neuroscience
PSYC 741W (C)	Cognitive Neuroscience
PSYC 741W (C)	Neuroscience of Memory
ZOOL 625	Animal Physiology
ZOOL 626 (C)	Animal Physiology Lab
ZOOL 690	Evolution
ZOOL 733 (C)	Behavioral Ecology
795/796 or 799 (C)	Independent Study

All students must complete a capstone experience and the Discovery Curriculum requirements. Courses that are typically eligible to fulfill the Capstone requirement are indicated with a (C). You can: 1) designate a course as a Capstone course, with additional requirements as determined by the instructor; 2) complete one semester of Capstone Research (BIOL 795, PSYC 795, or INCO 790; 4 credits); 3) do an honors thesis in Neuroscience (NSB 799H) or Biology or Psychology (BIOL 799 or PSYC 797/799) or; 4) participate in an advanced graduate seminar.

All biology and psychology foundation courses, core courses and all electives must be completed with a **C- or better**. CHEM 403/404, CHEM 545/546 and PHYS 401 must be completed with a **D- or better**.