NEUROPSYCHOLOGY MAJOR (B.S.)

https://manchester.unh.edu/program/bs/neuropsychology-major

Description

Neuropsychology is the study of the human brain and its relation to behavior. The UNH Manchester program focuses on the biological basis of human functioning in both normal and pathological states (e.g., dementia, depression) and therefore, prepares students for careers working with individuals with various mental health and neurological conditions. This interdisciplinary program offers a concentration of core and advanced courses in psychology and biology while providing sufficient flexibility for students to customize their education in order to meet specific requirements for their chosen career path, including the health professions.

The neuropsychology program prepares students for a variety of careers within the field of neuroscience, including bachelor-level positions and graduate training in research and health professions. At the bachelor-level, students are prepared for positions in healthcare (e.g., clinical laboratory technologist, psychometrician) and biomedical research (research assistant). The program is also designed to provide the flexibility needed to prepare students for graduate training in the health professions, such as being a physician, physician assistant, psychologist, neuropsychologist, or occupational therapist. Students interested in medical school are able to complete premedical requirements within four years.

Requirements

Students majoring in neuropsychology must complete a minimum of 128 credits and satisfy the University's Discovery Program, and complete 56 credits in the major with a minimum of C- in each course and a 2.0 overall grade-point average in all major requirements. Three courses in the major can be used to fulfill both a major requirement and a Discovery requirement, providing students with more flexibility to customize their education.

Transfer students who elect to major in neuropsychology must complete at least 32 credits in the program at UNH to qualify for the degree in neuropsychology. The department's academic advisors will determine the distribution of these credits. Transfer students should note that courses are allotted only the number of credits granted by the original institution (after adjustments for semester-hour equivalents). Thus, students transferring from an institution at which courses carry less than four credits each must make up for any credit deficit created by acceptance of transfer credits into the neuropsychology major.

Specific course selections should be discussed with the advisor. Exceptions to the requirements for the major require a petition to the department.

Program Requirements

Code	Title	Credits
Core Courses in Psychology and Biology		
BIOL 413 & BIOL 414	Principles of Biology I and Principles of Biology II (both with lab)	8
CHEM 403	General Chemistry I (with lab)	4
GEN 604	Principles of Genetics	4
NPSY 600	Behavioral Neuroscience	4
PSYC 401	Introduction to Psychology [1]	4
PSYC 402	Statistics in Psychology	4
PSYC 502	Research Methods in Psychology	4
PSYC 705	Tests and Measurement	4
Advanced Courses in Psychology and Biology		
Select three of the following:		12
BSCI 680	Pharmacology [2]	
BSCI #735	Cell Biology	
PSYC 710	Visual Perception	
PSYC 713	Psychology of Consciousness	
PSYC 731	Brain and Behavior	
PSYC 733	Drugs and Behavior [2]	
PSYC 735	Neurobiology of Mood Disorders	
PSYC 736	Attention Disorders	
Advanced Elective in Psychology		
Select one of the following:		4
PSYC 712	Psychology of Language	
PSYC 758	Health Psychology	
PSYC 762	Counseling	
PSYC 791	Special Topics	
Capstone Requirement		
Select one of the following:		4
NPSY 701	Neuropsychology Capstone Project	
PSYC 793	Internship (at approved site)	
PSYC 795	Independent Study (1-4 credits) [3]	
Total Credits		**56**

1. If used to fulfill SS Discovery requirement, students must take PSYC 511 Sensation and Perception, PSYC 513 Cognitive Psychology, or PSYC 561 Abnormal Behavior.
2. Students may either take BSCI 680 Pharmacology or PSYC 733 Drugs and Behavior for major credit, but not both.
3. If a student chooses to complete PSYC 795 Independent Study for less than 4 credits, they will need to take additional credits that count toward the major.

For more information about the neuropsychology program, contact Alison Paglia (alison.paglia@unh.edu), Ph.D., program coordinator, Daniel Seichepine (Daniel.Seichepine@unh.edu), Ph.D., or the UNH Manchester Office of Admissions (unhm.admissions@unh.edu) at (603) 641-4150.

Degree Plan

This degree plan is a sample and does not reflect the impact of transfer credit or current course offerings. UNH Manchester undergraduate students will develop individual academic plans with their professional advisor during the first year at UNH.

Sample Course Sequence

Course	Title	Credits
First Year		
Fall		
UMST 401 or UMST 402	First Year Seminar or Transfer Seminar	1
ENGL 401	First-Year Writing	4
PSYC 401	Introduction to Psychology	4
BIOL 413	Principles of Biology I	4

Discovery Course		4
	Credits	**17**
Spring		
PSYC 402	Statistics in Psychology	4
BIOL 414	Principles of Biology II	4
Discovery Course		4
Elective		4
	Credits	**16**
Second Year		
Fall		
CHEM 403	General Chemistry I	4
NPSY 600	Behavioral Neuroscience	4
PSYC 502	Research Methods in Psychology	4
Discovery Course		4
	Credits	**16**
Spring		
GEN 604	Principles of Genetics	4
PSYC 705	Tests and Measurement	4
Elective		4
Discovery Course		4
	Credits	**16**
Third Year		
Fall		
Advanced Courses in Psychology and Biology		4
Discovery Course		4
Elective		4
Elective		4
	Credits	**16**
Spring		
Advanced Courses in Psychology and Biology		4
Discovery Course		4
Elective Course		4
Elective Course		4
	Credits	**16**
Fourth Year		
Fall		
Advanced Courses in Psychology and Biology		4
Advanced Elective in Psychology		4
Elective		4
Elective		4
	Credits	**16**
Spring		
PSYC 793 or PSYC 795 or NPSY 701	Internship or Independent Study or Neuropsychology Capstone Project	4
Elective		4
Elective		4
Elective		4
	Credits	**16**
	Total Credits	**129**

Student Learning Outcomes

A student successfully completing this program will obtain the following competencies:

- Understand fundamental principles in both psychology and biology, such as the scientific method, statistical analysis and cellular biology.
- Understand the biological basis for normal human behavior (e.g. sensation, perception, learning and memory, etc.,) and for common neurological disorders (e.g. dementia, addictions etc.).
- Demonstrate the ability to gather, analyze, evaluate, and integrate peer-reviewed scientific articles in neuroscience. Additionally, students will learn to write literature reviews in American Psychological Association format.
- Understand ethical issues in research and clinical applications of neuropsychology.
- Effectively communicate complex neurobiological topics both orally and in writing.