NEUROSCIENCE, MINOR

Liberal Arts (Code 081-401)

Advisor: B. Carter (Biology).

Neuroscience is devoted to the understanding of the brain and the nervous system. The brain is the control system for the body and therefore has a central role in determining human health and disease. Neuroscience is interdisciplinary, intersecting with many other fields of study and thought including psychology, biology, philosophy, and medicine. Students who major in these areas should find the Neuroscience Minor a desirable complement to their major studies. Additionally, the Neuroscience Minor curriculum provides valuable preparation for students who intend to enter postgraduate programs related to neuroscience and medicine.

Code	Title	Credits	
Twenty-four semester credits required, including:			
Foundation Courses:			
IDIS 125	Brain: Introduction to Neuroscience	4	
BIOL 221	Foundations of Biology I ¹	4	
A minimum of three core courses chosen from:			
BIOL 350	Systems Neuroscience		
BIOL 351	Systems Neuroscience Lab		
BIOL 358	Cellular and Developmental Neuroscience		
PSYC 362	Clinical Neuroscience		
PSYC 374	Cognitive Neuroscience		
PSYC 387	Behavioral Neuroscience		
Electives:			
BIOL 305	Molecular and Cell Biology		
BIOL 319	Animal Form and Function		
BIOL 323	Genetics		
BIOL 324	Genetics Inquiry		
BIOL 359	Biology of Stress		
BIOL 365	Animal Behavior		
BIOL 380	Endocrinology		
BIOL 405	Advanced Cell and Molecular Lab		
BIOL 409	Molecular Genetics		
CSD 440	Neurological Aspects of Communication & Cognition		
PHIL 343	Philosophy of Mind		
PSYC 363	Psychology of Addictions		
PSYC 366	Statistical Methods in Psychology II		
PSYC 372	Individual Differences and Behavior Genetics		
PSYC 376	Psychology of Perception		
PSYC 377	Psychopharmacology		
PSYC 379	Cognitive Psychology		
Up to three credits of approved neuroscience-related research or academic experience from the following courses may be applied to the minor with consent of the advisor:			

BIOL 296	Student Academic Experience
BIOL 399	Independent Study - Juniors
BIOL 496	Student Academic Apprenticeship

BIOL 497	Senior Research Presentation
BIOL 499	Independent Study - Seniors
PSYC 396	Research Apprentice in Psychology
PSYC 397	Student Academic Apprenticeship in Psychology
PSYC 399	Independent Study - Juniors
PSYC 499	Independent Study - Seniors

¹ Biology majors may not count BIOL 221 toward this minor.

Note: A maximum of 12 credits from the minor may count toward the Biology or Psychology majors.

Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- · Identify and describe the main concepts and methodologies of the interdisciplinary field of neuroscience.
- · Demonstrate critical thinking skills by analyzing and evaluating neuroscience primary literature.
- · Communicate effectively in a variety of formats (oral, written, technological).
- Apply ethical standards to evaluate neuroscience research and applications.
- · Formulate career plans based on accurate self-assessment of abilities, motivation, and personal demeanor.