## **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 <sup>1</sup>	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	
or academic experier	f approved neuroscience-related research nce from the following courses may be 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

<sup>&</sup>lt;sup>1</sup> 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.