

NEUROSCIENCE MAJOR

(BS PROGRAM)



EDGEWOOD COLLEGE

2017-2018 Catalog

Information Sheet

This Information Sheet is for advising purposes only. Do not submit this form as a Major/Minor Declaration Form; a separate form is required to declare your major/minor.

Neuroscience is a multidisciplinary field of study devoted to understanding the relationship between brain and behavior. Drawing prominently from biology and psychology, the central tenet of Neuroscience is that all behavior can be understood in terms of its underlying molecular, cellular and neural systems. Students will learn foundational laboratory skills and core concepts through coursework across many disciplines. Students will develop oral and written scientific communication skills as well as the ability to critically evaluate scientific research. Neuroscience majors can specialize their focus through community internships and independent mentored research, which is designed to prepare students for careers and/or graduate study in various sciences and health-related fields.

The following entry requirements must be met prior to a student declaring the Neuroscience major:

- A minimum of a grade of B/C in PSY 101 and BIO 151 (or 152),

AND

- A minimum cumulative GPA of 2.75

Major Requirements:

A minimum of 54 credits to include:

Required Coursework:

Psychology Core: (12 credits)

PSY 101		Introduction to Psychology
PSY 445/BIO 445	V	Biological Psychology*
PSY 490	S	Neural Science*

Biology Core: (11 credits)

BIO 151	ESU	General Biology: Ecology, Genetics and Evolution*
BIO 152	S	General Biology II: Cells and Molecules*
BIO 401		Genetics*

Research Core: (3-4 Credits):

Choose one in consultation with advisor:

BIO 251	IX	Introduction to Biology Research I*
PSY 375		Research Methods in Psychology*

Chemistry Core: (8 credits)

CHEM 120	S	General Chemistry I*
CHEM 121	S	General Chemistry II*

Philosophy Core: (3 credit)

PHIL 309		Philosophy of the Mind*
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Math Core: (2-4 credit)

Choose one:

MATH 121	M	Statistics*
MATH 114A	M	Precalculus A: College Algebra*
MATH 114B	M	Precalculus B: Trigonometry*
SS 369/PSY 369		Social Science Statistics*
MATH 231	M	Calculus I*

Neuroscience Core: (At least 3 credits)

NEURO 400		Special Topics in Neuroscience*
NEURO 495		Neuroscience Research Internship*
		OR
NEURO 496		Neuroscience Field Internship*

Electives: (12 credits)

Choose three courses:

BIO 210		Anatomy and Physiology I*
BIO 312		Microbiology*
BIO 402		Cell and Molecular Biology*
BIO 430/PSY 430	S	Animal Behavior*
CHEM 321		Organic Chemistry I*
CHEM 323		Organic Chemistry II*
PHYS 130	S	General Physics I*
PHYS 131	S	General Physics II*
PSY 340		Abnormal Psychology*
PSY 388		Perception, Memory and Cognition*
PSY 391		Emotion & Motivation*

**course has prerequisites*