

# Neuroscience Major (BS)

## Biology:

Professors: Cassia C. Oliveira and David Thomas

Associate Professors: Alexander Beeser and Maryline Jones

Assistant Professor: Eric South

## Psychology:

Associate Professor: Jennifer Daniels

Assistant Professors: Britt Florkiewicz, Robert Miller, Allison Sonia, and Nikki Yonts

The Neuroscience major provides students with a foundational understanding of the biology and function of the nervous system and brain. The major offers courses spanning topics from the intricate processes that control neural activity to the anatomy and function of brain regions and the intersection of neurobiology and behavior. True to the liberal arts experience, the Neuroscience major draws from several academic disciplines, and students in the major will take many courses in biology and psychology as well as neuroscience as they develop their understanding of how the brain and nervous system produce the mind and behavior. The program also emphasizes research methodology, data analysis, and statistics as it pertains to the study of the nervous system and behavior.

**Note: To graduate with a Bachelor of Arts or Bachelor of Science degree from Lyon College, students must successfully complete a minimum of 120 semester credit hours comprised of our required Core curriculum (44-48 hours), the requirements of at least one major (credit hours vary per major), and a selection of our Liberal Arts electives. They must also earn at least a 2.00 cumulative grade point average for all work taken at Lyon College and a 2.00 cumulative grade point average in their major, minor, and concentration.**

## Summary of Requirements for a Major in Neuroscience

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Item #	Title	Credits
BIO 110	Principles of Biology I	4
BIO 250	Cell Biology	4
CHM 110	General Chemistry I	4
CHM 120	General Chemistry II	4
PSY 101	Introduction to Psychology	3
PSY 235	Statistics for the Behavioral Sciences	3
PSY 250	Research Methods with Human Participants	3
PSY 318	Biological Psychology	3
PSY 335	Abnormal Psychology	3
NEU 301	Neuroscience Foundations	3
NEU 302	Biological Basis of Perception & Movement	3
NEU 303	Cognitive Neuroscience	3
NEU 401	Clinical Neuropathology	3
NEU 490	Senior Evaluation	0
	Neuroscience Elective Courses	10-11

# CORE CURRICULUM

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<b>Item #</b>	<b>Title</b>	<b>Credits</b>
	Core Curriculum Requirements (In addition to Major hours)	44-48
	<b>Total Credits</b>	<b>97-102</b>

## Neuroscience Elective Courses

Select 3 courses, at least one from each group

### Group A

#### Group A

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
BIO 252	Genetics	4
BIO 352	Molecular Biology	4
BIO 356	Biochemistry	4
BIO 360	Comparative Physiology	4
BIO 364	Developmental Biology	4

### Group B

#### Group B

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
PSY 312	Sensation & Perception	3
PSY 339	Learning and Cognition	3
PSY 342	Introduction to Cognitive Psychology	3
PSY 353	Introduction to Evolutionary Psychology	3