

## Neuroscience

<b>Courses required for the first year:</b> None
<b>Courses recommended for the first year:</b> PSYC-200 Introduction to Neuroscience; CHEM-131, CHEM-132 and MATH-160 are not required but also great for establishing a basic science foundation.
<b>Contact:</b> Rupa Gordon (Program chair) - rupagordon@augustana.edu

## The Major in Neuroscience

### Required Courses

Course Number	Course Name	Learning Perspective/ Suffix	Prerequisites	Usually offered: F, J, SP, SU*	Credits
PSYC-200	Introduction to Neuroscience			Once or twice each year, usually F	4
PSYC-240	Statistics	Q	*See below	F, SP	4
PSYC-246	Research Methods		PSYC-100 or PSYC-200, AND PSYC-240 *See below	F, SP	4
PSYC-349	Advanced Seminar in Neuroscience		PSYC-200 AND PSYC-246	Offered once per year, usually S	4
PSYC-352	Methods in Neuroscience		PSYC-200 AND PSYC-246	J	4
PSYC-452, PSYC-458 or PSYC-466	Senior Inquiry		PSYC-246	F, SP	4

**Note:** Enrollments in PSYC-240 and PSYC-246 are controlled by the department. Students interested in these courses should contact their NSCI advisor or, if not yet assigned to one, the department's administrative assistant, Kara Meyer ([karameyer@augustana.edu](mailto:karameyer@augustana.edu)), as soon as possible to secure a seat for a future term.

## Additional Courses

### Choose one neuroscience elective

- PSYC-342 Cognition (PSYC-246 prereq)
- PSYC-343 Sensation & Perception (PSYC-246 prereq)
- PSYC-347 Learning (PSYC-246 prereq)
- PSYC-418 Drugs & Addiction (PSYC-100 or PSYC-200 prereq & Junior status)

### Choose two multidisciplinary electives (must be from different department codes)

- BIOL-130 Molecules to Cells (intended for BIOL majors)
- BIOL-250 Genetics (BIOL-130 and BIOL-140 prereqs)
- BIOL-358 Neuroanatomy (BIOL-351 prereq)
- BIOL-360 Comparative Physiology (BIOL-130 and BIOL-140 prereqs)
- BIOL-362 Human Physiology (BIOL-130 prereq)
- CSC-320 Principles of Artificial Intelligence (PH; C or better in CSC-202 and MATH-250)
- CSD-205 Anatomy, Physiology, & Science of Speech
- CSD-210 Anatomy, Physiology, & Science of Hearing (CSD-110 prereq)
- CSD-410 Neural Bases of Human Communication
- PHIL-301 Decision & Game Theory (PS & Q)
- PHIL-310 Philosophy of Mind (PH)
- PHIL-314 Philosophy of Language (PH)
- RELG-355 Medical Ethics (PH)

## Additional Recommended Courses

Some or all of the following are recommended for students planning to pursue graduate training in neuroscience and may be required by some graduate programs: CHEM-131, CHEM-132, CHEM-321, CHEM-322, CHEM-441, CHEM-442; MATH-160; PHYS-151, PHYS-152, or PHYS-211, PHYS-212, PHYS-213. Students should also participate in supervised research (PSYC-382, PSYC-385). Please consult with your advisor.

## Major Overview

**MAJOR IN NEUROSCIENCE** 36 credits, including PSYC-200, PSYC-240, PSYC-246, PSYC-349, PSYC-352 one Neuroscience elective (choose from PSYC-342, PSYC-343, PSYC-347, PSYC-418); two multi-disciplinary electives from different course codes (choose from BIOL-130, BIOL-250, BIOL-358, BIOL-360, BIOL-362, CSC-320, CSD-205, CSD-210, CSD-410, PHIL-301, PHIL-310, PHIL-314, RELG-355); and one Senior Inquiry from PSYC-452, PSYC-458, or PSYC-466. Students who complete Senior Inquiry in another major must substitute an additional 4-credit elective at the 300 or 400 level. The major requires a minimum of 20 credits at the 300-400 level.

Students may not major or minor in both Psychology and Neuroscience.

Recommended supporting courses: some or all of the following are recommended for students planning to pursue graduate training in neuroscience and may be required by some graduate programs: CHEM-131, CHEM-132, CHEM-321, CHEM-322, CHEM-441, CHEM-442; MATH-160; PHYS-151, PHYS-152, or PHYS-211, PHYS-212, PHYS-213. Please consult with your advisor.

For course descriptions, see the catalog pages for Biology, Chemistry, Communication Sciences & Disorders, Computer Sciences, Math, Philosophy, Physics, Psychology, and Religion.

\*Fall, J term, Spring, Summer; see [Academic Calendar](#) for specific dates

Updated November 2025