

NEUROSCIENCE (CONCENTRATION)

Neuroscience Concentration

Neuroscience Concentration requires students to complete the ten 4-credit courses listed below, and the zero-credit NEUR 401 - Neuroscience Assessment.

Four Foundational Courses

May be taken in any order, beginning as early as the first semester at Denison. Foundational courses in Biology and Psychology serve as prerequisites for the 200 and 300-level Biology and Psychology courses required of Neuroscience concentrators.

Code	Title
BIOL 210	Molecular Biology and Unicellular Life
CS 111	Discovering Computer Science: Scientific Data and Dynamics
or DA 101	Introduction to Data Analytics
or CS 109	Discovering Computer Science
or CS 110	Discovering Computer Science: Digital Media and Games
or CS 112	Discovering Computer Science: Markets, Polls, and Social Networks
PHIL 210	Philosophy of Science
or PHIL 280	Philosophy of Mind
PSYC 100	Introduction to Psychology

Two Intermediate Courses in Biology and Psychology

These courses have prerequisites and are, in turn, prerequisites for the advanced courses.

BIOL 220 - Multicellular Life (Prerequisite for BIOL 334 and BIOL 349)

PSYC 200 - Research Methods and Statistics (Prerequisite for PSYC 351 and prerequisite for any of the following: PSYC 311, PSYC 331, PSYC 341)

Three Advanced Courses in Biology and Psychology

These courses may be taken in any order, except that PSYC 350 - Biological Psychology and PSYC 351 - Research in Biological Psychology must be taken concurrently.

Code	Title
Biology:	
BIOL 349	Neurophysiology
or BIOL 334	Comparative Physiology: Human and non-human animals
Psychology:	
PSYC 350	Biological Psychology
PSYC 351	Research in Biological Psychology (In place of PSYC 351, students may take one of the following course pairings: PSYC 310 & PSYC 311, PSYC 330 & PSYC 331, PSYC 340 & PSYC 341. Note that PSYC 350 is still required, and thus this substitution increases the total number of courses for the concentration by one.)

Neuroscience Senior Capstone Seminar

This course must be taken in the spring of the senior year. NEUR 412 - Neuroscience Senior Capstone Seminar The prerequisites for NEUR 412 include the advanced biology and psychology courses.

Neuroscience Assessment

Satisfactory completion of NEUR 401 - Neuroscience Assessment is required of all senior Neuroscience concentrators during the final weeks of NEUR 412 - Neuroscience Senior Capstone Seminar. NEUR 401 - Neuroscience Assessment is a zero credit course.