

The Ohio State University  
Colleges of the Arts and Sciences

**Interdisciplinary Neuroscience Minor (NEUR SC, 287)**

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Neuroscience Faculty Mentors:

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The interdisciplinary minor in Neuroscience provides a coherent framework for the courses and undergraduate research opportunities that exist within multiple departments and colleges for students interested in this area.

Neuroscience, at its most basic definition, involves the study of the brain, its development, how it processes information, and the impact on behavior. Other areas of Neuroscience include neuropsychiatry, neurophysiology, neuroanatomy, neurochemistry, psychobiology, behavioral neuroscience, sensory and neuroimmunology, and molecular and cellular neuroscience.

The Neuroscience minor consists of 25 credit hours of course work. Two foundational courses are required, and the remaining credit hours may be taken from a range of advanced courses that should be chosen in consultation with one of the following faculty mentors: Once your faculty mentor has approved your Minor Program Form, you should file it with your college or school counselor.

**Required foundational courses (8 credit hours)**

Psychology 313 – Introduction to Psychobiology (4)  
Neuroscience 300 – Introduction to Neuroscience (4)

**Advanced Electives (17 credit hours)**

Select courses from the following list to total 17 credit hours. No more than 6 hours of any 693 research experience can count on the minor. It is expected that courses will come from a variety of areas. Students are required to discuss their choice of electives with a neuroscience faculty mentor to ensure that the selections meet the students' interests and career goals. Prerequisites for courses may be waived for minors, so students are advised to consult regularly with their mentor or advisor.

Chemistry 211 – Quantitative Chemical Analysis for Biological and Medicinal Sciences (5)  
EEOB 632 – Neurobiology (3)  
Linguistics/Psychology 371 – Language and the Mind (5)  
Pharmacology 600 – General Pharmacology (3)  
Pharmacy 200 – The Rational & Irrational Use of Drugs (3)  
Philosophy H580 – Ethical Concepts in Health Care Research, Policy, and Practice (5)  
Psychology 305 – Drugs and Behavior (4)  
Psychology 312 – Learning, Memory, and Cognition (4)  
Psychology 501 – Advanced Psychobiology (4)  
Psychology H506 – Contemp. Issues in Neuroscience (2)  
Psychology 513 – Intro to Cognitive Neuroscience (4)  
Psychology H613 – Biological Bases of Psychopathology (4)  
Psychology 603 – Visual Perception (3)  
Psychology 606 – High-Level Vision (4)  
Psychology 617 – Neural Network Models in Psychology (4)  
Psychology 623 – Biological Clocks and Behavior (4)  
Psychology 626 – Sensory Psychobiology (3)  
Psychology 644 – Behavioral Endocrinology (3)

The following courses are a sample of individual study/research courses that may be included on the minor with the approval of a faculty mentor. A minimum of three (3) and a maximum of six (6) hours of 693 credit may count on the minor.

EEOB 693 – Individual Studies (3-6)  
Molecular Genetics 693 – Individual Studies (3-6)  
Neuroscience 693 – Individual Studies (3-6)  
Psychology 693.08 – Individual Studies (3-6)

**Arts and Sciences minor program guidelines**

The following guidelines govern minors.

Required for graduation No

Credit hours required A minimum of 20 (some minors require more)

Transfer credit hours allowed A maximum of 10

Overlap with the GEC Permitted, unless specifically disallowed by an individual minor program.

Overlap with the major Not allowed and

- The minor must be in a different subject than the major.
- The same courses cannot count on the minor and on the major.

Overlap between minors Each minor completed must contain 20 unique hours.

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.

Approval required The minor program description sheet indicates if the minor course work must be approved by:

- The academic unit offering the minor, or
- A college/school counselor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by:

- The academic unit offering the minor, or
- A college/school counselor (depending on the minor).

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KMF 5/12/05