

Neuroscience Studies Minor (min 24 SH)

The Neuroscience Studies Minor is designed to provide students with an introduction to the study of neuroscience at the various structural and functional levels of analysis, including molecular, cellular, integrative, and behavioral. Students seeking to declare the Neuroscience Studies Minor should contact the Neuroscience Program Director (Tuan Tran, 225 Rawl Building; 252-328-6445; trant@ecu.edu). A [Neuroscience, BS](#) is also available. Students interested in this major should contact the Neuroscience Program Director.

The minor requires 24 s.h. as follows:

1. Core - 20 s.h.

- [BIOL 1100 - Principles of Biology I](#)
- [BIOL 1101 - Principles of Biology Laboratory I](#)
- [CHEM 1160 - General Chemistry II](#)
- [CHEM 1161 - General Chemistry Laboratory II](#)
- [NEUR 4900 - Cellular and Molecular Neuroscience](#)^{*†} (only offered in fall semester)
- [NEUR 4901 - Behavioral and Integrative Neuroscience](#)[†] (only offered in spring semester)

- [PSYC 1000 - Introductory Psychology](#) or
- [PSYC 1060 - Honors Introduction to Psychology](#)

- [PSYC 3310 - Introduction to Neuroscience](#)

2. Neuroscience Laboratory Course - 2-3 s.h.

(Choose one.)

- [NEUR 2201 - Neuroscience Research](#)^{††}
- [PSYC 4312 - Laboratory Methods in Behavioral Neuroscience](#)^{†††}
- [PSYC 4315 - Neuroscience: Literature and Laboratory Experience](#)^{†††}

*If not offered, then the only substitute is **PSYC 4250 Adv Topics Seminar: Neurobiology of Learning and Memory (this course is only offered each fall semester; contact Dr. Tran about availability and approval).**

[†]Requires special permission from Dr. Tran and senior standing.

^{††}Requires a faculty research mentor to supervise work AND a DocuSign form submitted by the mentor. See FAQ on neuroscience website about the DocuSign process.

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3. Electives - 2-5 s.h.

- [BIOL 2130 - Survey of Human Physiology and Anatomy](#)
- [BIOL 2131 - Survey of Human Physiology and Anatomy Laboratory](#)
- [BIOL 2300 - Principles of Genetics](#)
- [BIOL 3310 - Cellular Physiology](#)
- [BIOL 3311 - Cellular Physiology Discussion](#)
- [BIOL 3320 - Principles of Animal Physiology](#)
- [BIOL 5510 - Transmission Electron Microscopy](#)
- [BIOL 5511 - Transmission Electron Microscopy Laboratory](#)
- [BIOL 5520 - Scanning Electron Microscopy and X-Ray Analysis](#)
- [BIOL 5521 - Scanning Electron Microscopy and X-Ray Analysis Laboratory](#)
- [CHEM 2750 - Organic Chemistry I](#)

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- [CHEM 2753 - Organic Chemistry Laboratory I](#)
- [CHEM 2760 - Organic Chemistry II](#)
- [CHEM 2763 - Organic Chemistry Laboratory II](#)
- [CHEM 3770 - Biological Chemistry](#)
- [CHEM 3771 - Biological Chemistry Laboratory](#)
- [ITEC 2054 - Electricity/Electronics Fundamentals](#)
- [ITEC 2055 - Electricity/Electronics Fundamentals Laboratory](#)
- [MATH 2121 - Calculus for the Life Sciences I](#)
- [MATH 2122 - Calculus for the Life Sciences II](#)
- [NEUR 4200 - Literature in Neurosciences](#)
- [PHIL 1262 - Introduction to Philosophical Issues in Biology](#)
- [PHIL 2261 - Introduction to Philosophy of Science](#)
- [PSYC 2210 - Research Methods in Psychology](#)
- [PSYC 3225 - Psychology of Learning](#)
- [PSYC 3226 - Cognitive Psychology](#)
- [PSYC 3311 - Neuropsychology](#)
- [PSYC 4340 - Neuropsychopharmacology](#)
- Any course listed under 2., above, not used to meet lab requirement may be chosen as an elective.