NEUROSCIENCE MINOR

Contact Information
Department of Psychology and Neuroscience
http://psychology.unc.edu
Davie Hall, CB# 3270
(919) 843-5467

Kelly Giovanello, Director of Neuroscience Minor
kgio@email.unc.edu

Donald T. Lysle, Chair
dlysle@email.unc.edu

Regina M. Carelli, Associate Chair
rcarelli@email.unc.edu

Karen Gil, Associate Chair
kgil@email.unc.edu

Jeannie Loeb, Director of Undergraduate Studies
loeb@email.unc.edu

Desiree Griffin, Director of Academic Advising
dgriffin@email.unc.edu

Kaitlin Blakemore, Student Services Manager
blakek@email.unc.edu

Christopher Coffey, Undergraduate Instructional Program Coordinator
tcoffey@email.unc.edu

The minor is open to all students, including psychology majors. However, students should note that they are limited to no more than 45 credit hours within a specific department. Students must earn a grade of C or better in at least four of the five courses.

Department Programs

Majors

• Psychology Major, B.A. (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-ba)
• Psychology Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-bs)

Minors

• Cognitive Science Minor (http://catalog.unc.edu/undergraduate/programs-study/cognitive-science-minor)
• Neuroscience Minor (p. 1)

Graduate Programs

• M.A. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience)
• Ph.D. in Psychology (http://catalog.unc.edu/graduate/schools-departments/psychology-neuroscience)

Requirements

In addition to the program requirements listed below, students must:

• earn a minimum of 12 hours of C or better in the minor (some minors require more)

For more information, please consult the degree requirements section of the catalog (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirementstext).

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>PSYC 315</td>
<td>Introduction to Neuroscience (prerequisite</td>
<td>3</td>
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<td>PSYC 101 or BIOL 101)</td>
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<td>Four courses distributed over at least two academic departments, selected from the following lists:</td>
<td>12</td>
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Psychology:

• PSYC 220 Biopsychology
• PSYC 225 Sensation and Perception
• PSYC 245 Abnormal Psychology
• PSYC 320 Drugs and Human Behavior
• PSYC 330 Introduction to Cognitive Science
• PSYC 401 Animal Behavior
• PSYC 402 Advanced Biopsychology
• PSYC 403 Advanced Biopsychology Laboratory
• PSYC 404 Clinical Psychopharmacology
• PSYC 415 History of Neuroscience
• PSYC 420 Functional Neuroanatomy
• PSYC 424 Neural Connections: Hands on Neuroscience
• PSYC 425 Advanced Perceptual Processes
• PSYC 426 Molecular Mechanisms of Memory
• PSYC 427 Neurobiology of Aging
• PSYC 428 Neuroscience, Society, and the Media
• PSYC 429 Neuroeconomics and the Science of Consequence
• PSYC 434 Cognitive Neuroscience
• PSYC 437 Neurobiology of Learning and Memory
• PSYC 469 Evolution and Development of Biobehavioral Systems
• PSYC 507 Autism
• PSYC 533 The General Linear Model in Psychology
• PSYC 568 Emotion
• PSYC 602 Evolutionary Psychology

Biology:

• BIOL 252 Fundamentals of Human Anatomy and Physiology
• BIOL 278 Animal Behavior
• BIOL 431 Biological Physics
• BIOL 450 Introduction to Neurobiology
• BIOL 451 Comparative Physiology
• BIOL 455 Behavioral Neuroscience
• BIOL 552 Behavioral Endocrinology
• BIOL 553 Mathematical and Computational Models in Biology

Biomedical Engineering:

• BMME 445 Systems Neuroscience

Chemistry:

• CHEM 430 Introduction to Biological Chemistry

Computer Science:

• COMP 555 Bioalgorithms
### Exercise and Sport Science:
- EXSS 380  Neuromuscular Control and Learning

### Mathematics:
- MATH 383  First Course in Differential Equations \(^H\)
- MATH 528  Mathematical Methods for the Physical Sciences I
- MATH 529  Mathematical Methods for the Physical Sciences II
- MATH 547  Linear Algebra for Applications
- MATH 553  Mathematical and Computational Models in Biology
- MATH 564  Mathematical Modeling in the Life Sciences
- MATH 566  Introduction to Numerical Analysis
- MATH 577  Linear Algebra

### Physics:
- PHYS 405  Biological Physics

### Statistics and Operations Research:
- STOR 215  Foundations of Decision Sciences
- STOR 445  Stochastic Modeling
- STOR 455  Statistical Methods I
- STOR 556  Advanced Methods of Data Analysis
- STOR 565  Machine Learning

**Total Hours**: 15

\(^H\) Honors version available. An honors course fulfills the same requirements as the nonhonors version of that course. Enrollment and GPA restrictions may apply.

\(^I\) Students may receive elective credit for BMME 445 or PSYC 220, but not both.

See the program page here (http://catalog.unc.edu/undergraduate/programs-study/psychology-major-ba) for special opportunities.