NEUROSCIENCE MINOR

Contact Information
Department of Psychology and Neuroscience
Visit Program Website (http://psychology.unc.edu)
Davie Hall, CB# 3270
(919) 843-0174
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@unc.edu
Desiree Griffin, Director of Undergraduate Advising
dgriffin@unc.edu
Kaitlin Blakemore, Student Services Manager
blakek@email.unc.edu
Christopher Coffey, Undergraduate Instructional Program Coordinator
ctcoffey@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
• Neuroscience Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-major-bs)
• 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:
• take at least nine hours of their minor course requirements at UNC–Chapel Hill
• 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).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSCI 175</td>
<td>Introduction to Neuroscience (with a grade of C or better)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Four courses distributed over at least two academic departments,</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>selected from the following lists:</td>
<td></td>
</tr>
</tbody>
</table>

**Psychology and Neuroscience:**
- NSCI 225  Sensation and Perception H
- NSCI 275  Neuroscience Research Methods
- NSCI 320  Neuropsychopharmacology
- NSCI 325  Neuroscience of Psychiatric Disorders
- NSCI 401  Animal Behavior
- NSCI 403  Advanced Biopsychology Laboratory H
- NSCI 405  Advanced Molecular Neuropharmacology
- NSCI 415  History of Neuroscience
- NSCI 420  Functional Neuroanatomy
- NSCI 421  Principles of Brain Circuits
- NSCI 422  Genetics of Brain Diseases
- NSCI 423  Neurotechnology in Modern Neuroscience Research
- NSCI 424  Neural Connections: Hands on Neuroscience
- NSCI 427  Neurobiology of Aging
- NSCI 428  Neuroscience, Society, and the Media
- NSCI 434  Cognitive Neuroscience
- NSCI 437  Neurobiology of Learning and Memory
- NSCI 507  Autism
- NSCI 568  Emotion
- NSCI 571  Social Neuroscience
- NSCI 573  Neuropsychobiology of Stress
- PSYC 245  Psychopathology H
- PSYC 330  Introduction to Cognitive Science
- PSYC 404  Clinical Psychopharmacology
- PSYC 469  Evolution and Development of Biobehavioral Systems
- PSYC 533  The General Linear Model in Psychology H
- PSYC 559  Applied Machine Learning in Psychology
- PSYC 602  Evolutionary Psychology

**Biology:**
- BIOL 252  Fundamentals of Human Anatomy and Physiology
- BIOL 278  Animal Behavior
- BIOL 431  Biological Physics
- BIOL 450  Neurobiology
- BIOL 451  Comparative Physiology
- BIOL 455  Behavioral Neuroscience
- BIOL 552  Behavioral Endocrinology
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 553</td>
<td>Mathematical and Computational Models in Biology</td>
</tr>
<tr>
<td>BMME 445</td>
<td>Systems Neuroscience</td>
</tr>
<tr>
<td>CHEM 430</td>
<td>Introduction to Biological Chemistry</td>
</tr>
<tr>
<td>COMP 555</td>
<td>Bioalgorithms</td>
</tr>
<tr>
<td>EXSS 380</td>
<td>Neuromuscular Control and Learning</td>
</tr>
<tr>
<td>MATH 383</td>
<td>First Course in Differential Equations</td>
</tr>
<tr>
<td>MATH 528</td>
<td>Mathematical Methods for the Physical Sciences I</td>
</tr>
<tr>
<td>MATH 529</td>
<td>Mathematical Methods for the Physical Sciences II</td>
</tr>
<tr>
<td>MATH 547</td>
<td>Linear Algebra for Applications</td>
</tr>
<tr>
<td>MATH 553</td>
<td>Mathematical and Computational Models in Biology</td>
</tr>
<tr>
<td>MATH 564</td>
<td>Mathematical Modeling in the Life Sciences</td>
</tr>
<tr>
<td>MATH 566</td>
<td>Introduction to Numerical Analysis</td>
</tr>
<tr>
<td>MATH 577</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>PHYS 405</td>
<td>Biological Physics</td>
</tr>
<tr>
<td>STOR 215</td>
<td>Foundations of Decision Sciences</td>
</tr>
<tr>
<td>STOR 445</td>
<td>Stochastic Modeling</td>
</tr>
<tr>
<td>STOR 455</td>
<td>Methods of Data Analysis</td>
</tr>
<tr>
<td>STOR 556</td>
<td>Advanced Methods of Data Analysis</td>
</tr>
<tr>
<td>STOR 565</td>
<td>Machine Learning</td>
</tr>
</tbody>
</table>

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.

1 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.