COGNITIVE SCIENCE MINOR

Contact Information
Department of Psychology and Neuroscience
Visit Program Website (http://psychology.unc.edu)
Davie Hall, CB# 3270
(919) 843-0174
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 Psychology Advising
dgriffin@email.unc.edu
Kelly Gioanello, Director of Neuroscience Curricula
kgio@email.unc.edu
Rachel Penton, Director of Undergraduate Neuroscience Advising
pentonre@email.unc.edu
Peter Gordon, Director of Cognitive Science Minor
pcg@email.unc.edu
Kaitlin Blakemore, Student Services Manager
blakek@email.unc.edu
Christopher Coffey, Undergraduate Instructional Program Coordinator
ctcoffey@email.unc.edu

The cognitive science minor consists of five disciplinary areas: behavioral, biological, computational, linguistic, and philosophical. Each course, except the overview, falls into one or more disciplinary areas.

Students interested in pursuing the minor should contact the program director for further information.

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 (p. 1)
• Neuroscience Minor (http://catalog.unc.edu/undergraduate/programs-study/neuroscience-minor)

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 "core" 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>PSYC 330</td>
<td>Introduction to Cognitive Science (prerequisite, PSYC 101)</td>
<td>3</td>
</tr>
</tbody>
</table>

Four other courses distributed over at least two disciplinary areas, at least two of which must be numbered 400 or above, as follows:

Behavioral:
- ANTH 143 Human Evolution and Adaptation
- BIOL 278 Animal Behavior
- BIOL 455 Behavioral Neuroscience
- INLS 512 Applications of Natural Language Processing
- NSCI 222 Learning
- NSCI 225 Sensation and Perception
- NSCI 434 Cognitive Neuroscience
- PSYC 230 Cognitive Psychology
- PSYC 430 Human Memory
- PSYC 432 Psychology of Language
- PSYC 433 Behavioral Decision Theory
- PSYC 461 Cognitive Development
- PSYC 469 Evolution and Development of Biobehavioral Systems

Biological:
- BIOL 278 Animal Behavior
- BIOL 455 Behavioral Neuroscience
- BIOL 469 Behavioral Ecology
- NSCI 225 Sensation and Perception

Computational:
- COMP 101 Fluency in Information Technology
- COMP 116 Introduction to Scientific Programming
- COMP 401 Foundation of Programming
- COMP 455 Models of Languages and Computation
- INLS 382 Information Systems Analysis and Design
- INLS 500 Human Information Interactions
- INLS 509 Information Retrieval
- INLS 512 Applications of Natural Language Processing
- INLS 523 Introduction to Database Concepts and Applications
- INLS 541 Information Visualization
INLS 582  Systems Analysis
INLS 613  Text Mining
MATH 566  Introduction to Numerical Analysis
PSYC 433  Behavioral Decision Theory
STOR 215  Foundations of Decision Sciences
STOR 305  Introduction to Decision Analytics
STOR 435  Introduction to Probability
STOR 565  Machine Learning
**Linguistic:**
ANTH/LING 520  Linguistic Phonetics
INLS 512  Applications of Natural Language Processing
LING 200  Phonology
LING 201  Syntax
LING 202  Linguistic Variation and Language Change
LING 401  Language and Computers
LING 523  Phonological Theory I
LING 540  Mathematical Linguistics
LING 547  Language Deficits and Cognition
PHIL 145  Language, Communication, and Human and Animal Minds
PHIL 445  Advanced Philosophy of Language
PSYC 432  Psychology of Language
**Philosophical:**
ANTH 146  The Nature of Moral Consciousness: A Course in General Anthropology
ANTH/FOLK 435  Consciousness and Symbols
LING/PHIL 455  Symbolic Logic
PHIL 145  Language, Communication, and Human and Animal Minds
PHIL 155  Truth and Proof: Introduction to Mathematical Logic
PHIL 164  Morality and Business
PHIL 230  Mind, Matter, and Metaphysics: the Philosophy of Experience and Reality
PHIL 335  Theory of Knowledge
PHIL 340  Philosophy of Mind
PHIL 440  Philosophy of Mind
PHIL 445  Advanced Philosophy of Language

**Additional Requirements**
PSYC 101  General Psychology  3

Total Hours  18

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

Recommended preparation, PSYC 210 or another quantitative reasoning course.

Students must earn a grade of C or better in at least four of the five core courses. Courses used to satisfy psychology core requirements cannot also satisfy requirements in the cognitive science minor. The minor is open to all, including psychology majors, who are still limited to no more than 45 credit hours in the department. Students and their advisors should take careful note of the specified prerequisites for advanced offerings in this listing. The specified courses (or their equivalent from other institutions) provide a necessary background for entry into these advanced courses.

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