

# COGNITIVE SCIENCE MINOR

## Contact Information

### Department of Psychology and Neuroscience

Visit Program Website (<http://psychology.unc.edu>)

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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 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>).

Code	Title	Hours
<b>Core Requirements</b>		
PSYC 330	Introduction to Cognitive Science (prerequisite, PSYC 101) <sup>1</sup>	3
Four other courses distributed over at least two disciplinary areas, at least two of which must be numbered 400 or above, as follows:		
<b>Behavioral:</b>		
ANTH 143	Human Evolution and Adaptation	
BIOL 278	Animal Behavior	
BIOL 455	Behavioral Neuroscience	
INLS 512	Applications of Natural Language Processing	
PSYC 222	Learning <sup>H</sup>	
PSYC 225	Sensation and Perception <sup>H</sup>	
PSYC 230	Cognitive Psychology <sup>H</sup>	
PSYC 425	Advanced Perceptual Processes	
PSYC 430	Human Memory	
PSYC 432	Psychology of Language	
PSYC 433	Behavioral Decision Theory	
PSYC 434	Cognitive Neuroscience	
PSYC 461	Cognitive Development	
PSYC 469	Evolution and Development of Biobehavioral Systems	
<b>Biological:</b>		
BIOL 278	Animal Behavior	
BIOL 455	Behavioral Neuroscience	
BIOL 469	Behavioral Ecology	
PSYC 225	Sensation and Perception <sup>H</sup>	
<b>Computational:</b>		
COMP 101	Fluency in Information Technology	
COMP 116	Introduction to Scientific Programming	
COMP 401	Foundation of Programming <sup>H</sup>	
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	Decision Making Using Spreadsheet Models	
STOR 435	Introduction to Probability	
STOR 565	Machine Learning	
<b>Linguistic:</b>		
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 and Communication <sup>H</sup>	
PHIL 445	Philosophy of Language	
PSYC 432	Psychology of Language	
<b>Philosophical:</b>		
ANTH 146	The Nature of Moral Consciousness: A Course in General Anthropology	
ANTH/CMPL/ FOLK 435	Consciousness and Symbols	
LING/PHIL 455	Symbolic Logic	
PHIL 145	Language and Communication <sup>H</sup>	
PHIL 155	Introduction to Mathematical Logic <sup>H</sup>	
PHIL 164	Morality and Business	
PHIL 230	Experience and Reality <sup>H</sup>	
PHIL 335	Theory of Knowledge	
PHIL 340	Philosophy of Mind	
PHIL 440	Philosophy of Mind	
PHIL 445	Philosophy of Language	
<b>Additional Requirements</b>		
PSYC 101	General Psychology	3
Total Hours		18

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

<sup>1</sup> 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.