

Cognitive Science (Minor)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

The Department of Psychology and the Department of Philosophy and Religion offer an interdisciplinary minor in cognitive science. The minor offers the student the opportunity for in-depth study with the framework of the “computer model” of the mind. Students study such topics as the nature of human information processing, the acquisition and use of language, and machine intelligence. No courses for the minor may be taken for S/U credit.

Students completing the minor in Cognitive Science will:

- Possess a background in logic, linguistics, psychology, philosophy, computer science and an appreciation and understanding of contemporary research in cognitive science.
- Be acquainted with the range and nature of problems united under the title “cognitive science”.
- Have a general understanding of the computational model of the mind and of the ways in which the computer, together with other technical advances, has revolutionized contemporary thinking about the mind.
- Have an in-depth understanding of at least 2 or 3 central empirical issues currently under investigation in the field of cognitive science.
- Have become aware of both the value and difficulty of pursuing interdisciplinary approaches to research question.

Admissions and Certification of Minor

Students can complete the necessary forms online (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>). The minor must be completed no later than the semester in which the student expects to graduate from their degree program. Certification should be completed no later than during the registration period for the student’s final semester at NC State.

Contact Person

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SIS Code: 16CNM

- A minimum of 15 hours is required for the minor in Cognitive Science.
- Students must maintain a grade of ‘C-’ or better in each course used toward the minor.
- Cognitive Science minor courses must include at least 3 of the 5 primary disciplines: philosophy (including logic), psychology, computer science, linguistics, and neurobiology.

- A maximum of **two** (2) courses may be used (double-counted) towards both departmental major requirements and minor requirements.

The department will determine whether courses which have been transferred from other institutions qualify for the minor. No more than two courses from other institutions may count toward the minor.

Code	Title	Hours	Counts towards
Required Courses			
Select two of the following:		6	
PHI/PSY 425	Introduction to Cognitive Science		
PSY 420	Cognitive Processes		
CSC 411	Introduction to Artificial Intelligence		
Elective Courses			
Select three of the following:		9	
CSC 333	Automata, Grammars, and Computability		
CSC 411	Introduction to Artificial Intelligence		
ENG 210	Introduction to Language and Linguistics		
ENG 324	Modern English Syntax		
ENG 524	Introduction to Linguistics		
ENG 525	Variety In Language		
ENG 527	Discourse Analysis		
LOG 335	Symbolic Logic		
LOG 435	Advanced Logic & Metamathematics		
LOG 430	Varieties of Logic		
PHI 331	Philosophy of Language		
PHI 332	Philosophy of Psychology		
PHI 347	Neuroscience and Philosophy		
PHI/PSY 425	Introduction to Cognitive Science		
PHI 447	Philosophy, Evolution and Human Nature		
PSY 340	Human Factors Psychology		
PSY 400	Perception		

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PSY 420 Cognitive
Processes

PSY 430 Biological
Psychology

BIO 488 Neurobiology

Total Hours

15