

Requirements for the Cognitive Science Major (Fall 2025)

Lower-Division Required Courses:

CSCI 1300-1300L	Introduction to Programming with Python
Or CSCI 1301-1301L	Introduction to Computing and Programming
<i>Notes: MATH 1113 Precalculus is a pre-requisite for this class.</i>	
<i>CSCI 1301 is part of the prerequisite chain for further programming classes.</i>	
LING 2100	The Study of Language
PHIL 2010	Introduction to Philosophy
Or ARTI/PHIL 2130	AI for Humans
PHIL 2500	Symbolic Logic
PSYC 1101	Elementary Psychology
STAT 2000	Introductory Statistics

Upper-Division Required Courses:

PHIL(ARTI)(PSYC) 3550	Introduction to Cognitive Science
PSYC 4100*	Cognitive Psychology

And one of the following:

LING(ENGL) 3150	Generative Syntax
CSCI(PHIL) 4550	Artificial Intelligence

Foundation Areas / Major Electives:

Majors will choose two of the following foundation areas and take at least two classes in each of those areas. Majors are required to take five total courses in the foundation areas with at least 12 of those credit hours being upper-division.

Artificial Intelligence Foundations Area:

ARTI(PHIL) 4340	Ethics and Artificial Intelligence
CSCI 2670	Introduction to Theory of Computing
CSCI 2720	Data Structures
Or CSCI 2725	Data Structures for Data Science
CSCI 3360	Data Science I
CSCI 4330	Artificial Intelligence and the Web
CSCI 4380	Data Mining
CSCI(ARTI) 4530	Introduction to Robotics
CSCI(ARTI) 4540	Symbolic Programming
CSCI(PHIL) 4550	Artificial Intelligence
CSCI 4560	Evolutionary Computation
CSCI 4600	Reinforcement Learning
CSCI 4800	Human-Computer Interaction
LING 4570	Natural Language Processing
PHIL(LING)	4510 Deductive Systems

Philosophical Foundations Area:

ARTI(PHIL) 4340	Ethics and Artificial Intelligence
PHIL(PSYC) 3400	Philosophical Psychology
PHIL 3510	Topics in Symbolic Logic
PHIL 3600	Metaphysics
PHIL 3610	Theory of Knowledge
PHIL(EECP)	4250 Philosophy of Technology
PHIL(LING)	4300 Philosophy of Language
PHIL 4310	Philosophy of Mind
PHIL(LING) 4510	Deductive Systems
PHIL(LING) 4520	Model Theory
PHIL 4530	Philosophy of Mathematics
PHIL(CSCI) 4550	Artificial Intelligence

Psychological Foundations Area:

CBIO(BIOL) 3800	Neurobiology
EPSY 3010S	Child and Adolescent Development
ERSH 4300	Applied Statistical Methods in Education
LING 4105	Psycholinguistics
PSYC 3100	<i>when taught as special topic Judgement and Decision Making</i>
PSYC 3980*	Research Design in Psychology PSYC 4110* Learning
PSYC 4120*	Sensation and Perception
PSYC 4130*	Physiological and Comparative Psychology
PSYC 4140*	Cognitive Neuroscience
PSYC 5240*	Judgment and Decision Making
PHIL(PSYC) 3400	Philosophical Psychology

Language and Cultural Foundations Area:

ENGL 4826	Style: Language, Genre, Cognition
ENGL(LING) 4886	Text and Corpus Analysis
LING 3060	Phonetics and Phonology
LING(CMSD) 3120	Language Development
<i>Some sections restricted to CMSD majors only</i>	
LING(ENGL) 3150	Generative Syntax
LING 3350	Language Mind and Brain
LING 4022	Advanced Phonetics and Phonology
LING(ENGL) 4080	Language Variation and Linguistics of Speech
LING 4105	Psycholinguistics
LING(EPSY) 4130	Psychology of Language
LING 4160	Compositional Semantics
LING 4400	Quantitative Methods in Linguistics
LING(CMLT) 4740	Discourse Analysis
PHIL(LING) 4300	Philosophy of Language
PHIL(LING) 4510	Deductive Systems

**Majors may take these classes without the PSYC 3980 and 3990 pre-requisites*

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No single class may be used to satisfy multiple requirements.

Students must earn a grade of "C" (2.0) or better in major required courses.