

Requirements for the Cognitive Science Major

Lower-Division Required Courses:

CSCI1301-1301L Introduction to Computing and Programming
MATH 1113 Precalculus is a pre-requisite for this class.
LING2100 The Study of Language
PHIL2010 Introduction to Philosophy
PHIL2500 Symbolic Logic
PSYC1101 Elementary Psychology
STAT2000 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
ARTI/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:

CSCI/MATH 2610 Discrete Mathematics for Computer Science
CSCI 2670 Introduction to Theory of Computing
CSCI 2720 Data Structures
CSCI 4330 Artificial Intelligence and the Web
ARTI/CSCI 4530 Introduction to Robotics
ARTI/CSCI 4540 Symbolic Programming
CSCI/PHIL 4550 Artificial Intelligence
CSCI 4560 Evolutionary Computation
PHIL/LING 4510 Deductive Systems

Philosophical Foundations Area:

PHIL 3510 Topics in Symbolic Logic
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/CSCI 4550 Artificial Intelligence

Psychological Foundations Area:

CBIO/BIOL 3800 Neurobiology
EPSY 3010S Child and Adolescent Development
PSYC 4110* Learning
PSYC 4120* Sensation and Perception
PSYC 4130* Physiological and Comparative Psychology
PSYC 4140* Cognitive Neuroscience
PSYC 4930 Systems of Psychology
PSYC 5100 Seminar in Psychology (if on a cognitive science topic)
PSYC 5240* Judgment and Decision Making

Language and Cultural Foundations Area:

LING 3060 Phonetics and Phonology
LING/CMSD 3120 Language Development
LING/ENGL 3150 Generative Syntax
LING 4160 Compositional Semantics
LING 4690 Historical 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*

No single class may be used to satisfy multiple requirements.