# 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 2670 Introduction to Theory of Computing
- CSCI 2720 Data Structures
- CSCI 3360 Data Science I
- CSCI 4330 Artificial Intelligence and the Web
- CSCI 4380 Data Mining
- ARTI/CSCI 4530 Introduction to Robotics
- ARTI/CSCI 4540 Symbolic Programming
- CSCI/PHIL 4550 Artificial Intelligence
- CSCI 4560 Evolutionary Computation
- CSCI 4800 Human-Computer Interaction
- 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
- ERSH 4300 Applied Statistical Methods in Education
- PSYC 3980 Research Design in Psychology
  *Restricted to PSYC double-majors only*
- PSYC 4110* Learning
- PSYC 4120* Sensation and Perception
- PSYC 4130* Physiological and Comparative Psychology
- PSYC 4140* Cognitive Neuroscience
- PSYC 5240* Judgment and Decision Making

### 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
  *Some sections restricted to CMSD majors only*
- 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/EPSY 4130 Psychology of Language
- LING 4160 Compositional Semantics
- LING 4400 Quantitative Methods in Linguistics
- LING/ENGL 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.

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