

## Minor in Cognitive Science

### Fall 2016–Spring 2020 Requirements

### What is Cognitive Science?

Cognitive Science is the interdisciplinary study of the mind as an information processor. It is a relatively new discipline that arose in the mid-20<sup>th</sup> century from a convergence of conceptual revolutions primarily in psychology, computer science, and linguistics. Today it also draws from fields such as philosophy, neuroscience, and anthropology. A central goal of cognitive science is to determine structures and processes that underwrite cognitive tasks such as perception, memory, attention, language and motor control. This, in turn, plays an important role in applied research areas such as artificial intelligence, educational psychology, the science of language, and communication disorders.

Courses for the minor in cognitive science focus on three areas:

1. broad foundational issues in linguistics, psychology, and computing
2. more specialized issues in mental representation, computation, theoretical linguistics, and epistemology
3. problems in cognition, data processing, language and formal representation that are related to students' particular interests

### Cognitive Science Minor Requirements (18–19 credits)

- No course can be used to satisfy more than one requirement within the minor.
- Students must earn a C- or higher in all courses within the minor.
- To receive honors credits for a 600-level course, please email Dr. Larsen (dlarsen@udel.edu); failure to do so may result in problems with your degree checkout.
- Students minoring in cognitive science and minoring or majoring in linguistics may not count the same courses towards both programs, with the exception of LING101.

#### Key to Abbreviations

A,B,C,D	Satisfies Breadth Requirements A,B,C,D for the University <b>and</b> the College of Arts and Sciences.
a,b,c,d	Satisfies Breadth Requirements A,B,C,D for either the University <b>or</b> the College of Arts and Sciences (indicated by <i>uni</i> or <i>cas</i> ).
DLE	Satisfies the Discovery Learning Experience requirement.
W	Course is <b>eligible</b> for satisfying the Second Writing Requirement. <b>Not all sections will satisfy the requirement. You must verify this when registering.</b>

**Foundational**, All of the following:

CGSC170 <sup>C</sup>	Intro. to Cognitive Science
LING101 <sup>C</sup>	Intro. to Linguistics
PSYC100 <sup>C</sup>	General Psychology

**Computational**, One of the following:

CISC101 <sup>D</sup>	Principles of Computing		
CISC103 <sup>D</sup>	Intro. to Comp. Science with Web Applications		
CISC106 <sup>D</sup>	General Computer Science for Engineers	Coreqs:	MATH241 or higher
CISC108 <sup>D</sup>	Intro. to Computer Science I	Coreqs:	MATH115, 117, or higher math course or math placement
LING202	Science of Language	Prereqs:	LING101
PHIL205 <sup>D</sup>	Logic		

**Non-CGSC Elective**, One of the following:

CISC181 <sup>D</sup>	Intro. to Computer Science II	Prereqs:	C- or higher in CISC106 or 108
		Coreqs:	MATH221, 241, or a higher level math course or math placement
EDUC462	Language Acquisition	X-listings:	LING462, PSYC462
LING444	First Language Development	Prereqs:	LING101
PSYC310	Sensation and Perception	Prereqs:	C- or higher in PSYC207 and 209
PSYC314 <sup>D,W</sup>	Brain and Behavior	Prereqs:	C- or higher in PSYC100 or NSCI100
		X-listings:	CGSC314
PSYC340 <sup>W</sup>	Cognition	Prereqs:	C- or higher in PSYC207 and 209
		X-listings:	CGSC340
PSYC344	Psychology of Language	Prereqs:	C- or higher in PSYC207 and 209
PSYC350 <sup>W</sup>	Developmental Psychology	Prereqs:	C- or higher in PSYC207 and 209

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**CGSC Elective.** Any CGSC course or course cross-listed with CGSC, with the exception of independent studies

ANTH202 <sup>D</sup>	Genes, Bones, and Human Evolution	X-listings:	CGSC202
ANTH205 <sup>A</sup>	Anthropology and Human Nature	X-listings:	CGSC205
CGSCX67	SEMINAR		
CGSC310 <sup>DLE</sup>	Cognitive Science Internship		
CGSC375	Introduction to Communication Disorders in Children	Prereqs:	LING101
CGSC376	Introduction to Communication Disorders of Adulthood	Prereqs:	LING101
CGSC377	Critical Thinking in a Clinical Setting	Prereqs:	CGSC376
CGSC378	Anatomy and Physiology of Speaking	Prereqs:	C or higher in CGSC375 or 376
CGSC379	Introduction to Audiology	Prereqs:	LING101; C or higher in CGSC375 or 376
CGSC380	Clinical Principles and Procedures in Speech Pathology	Prereqs:	LING101; C or higher in CGSC375 or 376
CGSC404 <sup>C</sup>	Animal Minds	X-listings:	PHIL404
CGSC410 <sup>C</sup>	Embodied Cognition		
CGSC420 <sup>DLE,W</sup>	Research Methods in Cognitive Science	Prereqs:	PSYC209 or MATH201 or MATH205 or STAT200 or SOCI301
CGSC421 <sup>A</sup>	Philosophy, Biology, Society	X-listings:	PHIL421
CGSC433	Introduction to Acoustic Phonetics	Prereqs:	LING353
		X-listings:	LING433
CGSC451	Topics in Cognitive Science	Prereqs:	CGSC170
CGSC466	Independent Study		
CGSC467	SEMINAR		
CGSC470	Elements of Cognitive Science		
CGSC485 <sup>W</sup>	Seminar in Cognitive Science		
CGSC490	Philosophy of Language	X-listings:	PHIL490
CGSC496	Psycholinguistics	Prereqs:	LING101
		X-listings:	LING496
CISC481	Artificial Intelligence	Prereqs:	CISC220 with a minimum grade of C-, CISC304
		X-listings:	CGSC481
LING102 <sup>C</sup>	Language, Mind and Society	X-listings:	CGSC102
LING353 <sup>DLE</sup>	Introduction to Speech and Hearing Science	Prereqs:	LING101
		X-listings:	CGSC353
LING418	Meaning and Language Use	Prereqs:	LING101
		X-listings:	CGSC418, PHIL418
LING455	Computational Linguistics	Prereqs:	LING101
		X-listings:	CGSC455
LING471 <sup>C,DLE</sup>	Discovering Human Language	Prereqs:	LING101
		X-listings:	CGSC471
PHIL320 <sup>A</sup>	Theory of Knowledge	X-listings:	CGSC320
PHIL327 <sup>A</sup>	Race, Gender, Science	X-listings:	AFRA327, CGSC327, WOMS327
PHIL330 <sup>C</sup>	Philosophy of Mind	X-listings:	CGSC330
PSYC314 <sup>D,W</sup>	Brain and Behavior	Prereqs:	C- or higher in PSYC100 or NSCI100
		X-listings:	CGSC314
PSYC340 <sup>W</sup>	Cognition	Prereqs:	C- or higher in PSYC207 and 209
		X-listings:	CGSC340