



## Minor in Cognitive Science

Fall 2016 – Spring 2023 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 e-mail [cgsc-advise@udel.edu](mailto:cgsc-advise@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.
<i>sub</i>	Substitute course. E-mail <a href="mailto:cgsc-advise@udel.edu">cgsc-advise@udel.edu</a> after enrolling in this course so we can get it to count on your degree audit.

<b>Foundational – All of the following (9 credits):</b>	
<b>CGSC170<sup>C</sup></b>	Introduction to Cognitive Science
<b>LING101<sup>C</sup></b>	Introduction to Linguistics
<b>PSYC100<sup>C</sup></b>	General Psychology

<b>Computational – One of the following (3 credits):</b>		
<b>CISC101<sup>D</sup></b>	Principles of Computing	
<b>CISC103<sup>D</sup></b>	Intro. to Computer Science with Web Applications	
<b>CISC106<sup>D</sup></b>	General Computer Science for Engineers	Coreqs: MATH241 or higher
<b>CISC108<sup>D</sup></b>	Intro. to Computer Science I	Coreqs: MATH115, 117 or higher math course or math placement
<b>LING202<sup>d(cas)</sup></b>	Science of Language	Prereqs: LING101
<b>PHIL205<sup>D</sup></b>	Logic	

<b>Non-CGSC Elective – One of the following (3 credits):</b>		
<b>CISC181<sup>D</sup></b>	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
<b>EDUC462</b>	Language Acquisition	X-listings: LING462, PSYC462
<b>LING444</b>	First Language Development	Prereqs: LING101
<b>PSYC310</b>	Sensation and Perception	Prereqs: C- or higher in PSYC207 and eligible statistics course
<b>PSYC314<sup>D</sup></b>	Brain and Behavior	Prereqs: C- or higher in PSYC100 or NSCI100 X-listings: CGSC314
<b>PSYC340</b>	Cognition	Prereqs: C- or higher in PSYC207 and eligible statistics course X-listings: CGSC340
<b>PSYC344</b>	Psychology of Language	Prereqs: C- or higher in PSYC207 and eligible statistics course
<b>PSYC350</b>	Developmental Psychology	Prereqs: C- or higher in PSYC207 and eligible statistics course

***Advice:***

- Eligible statistics courses are MATH202, MATH205, STAT200, SOCI301, PSYC209

**CGSC Elective – Any CGSC course or course cross-listed with CGSC, with the exception of independent studies. Current options are shown below.**

<b>ANTH202<sup>D</sup></b>	Genes, Bones, and Human Evolution	X-listings: CGSC202
<b>ANTH205<sup>A</sup></b>	Anthropology and Human Nature	X-listings: CGSC205
<b>CGSCX67</b>	SEMINAR	
<b>CGSC310<sup>DLE</sup></b>	Cognitive Science Internship	
<b>CGSC375</b>	Introduction to Communication Disorders in Children	Prereqs: LING101
<b>CGSC376</b>	Introduction to Communication Disorders of Adulthood	Prereqs: LING101
<b>CGSC404<sup>C</sup></b>	Animal Minds	X-listings: PHIL404
<b>CGSC410<sup>C</sup></b>	Embodied Cognition	
<b>CGSC420<sup>DLE</sup></b>	Research Methods in Cognitive Science	Prereqs: eligible statistics course
<b>CGSC421<sup>A</sup></b>	Philosophy, Biology, Society	X-listings: PHIL421
<b>CGSC433</b>	Introduction to Acoustic Phonetics	Prereqs: LING353 X-listings: LING433
<b>CGSC451</b>	Topics in Cognitive Science	Prereqs: CGSC170
<b>CGSC467</b>	SEMINAR	
<b>CGSC470</b>	Elements of Cognitive Science	
<b>CGSC485</b>	Seminar in Cognitive Science	
<b>CGSC490</b>	Philosophy of Language	X-listings: PHIL490
<b>CGSC496</b>	Psycholinguistics	Prereqs: LING101 and 202 X-listings: LING496
<b>CISC481</b>	Artificial Intelligence	Prereqs: C- or higher in CISC220; CISC304 X-listings: CGSC481
<b>LING102<sup>C</sup></b>	Language, Mind and Society	X-listings: CGSC102
<b>LING353<sup>DLE</sup></b>	Introduction to Speech and Hearing Science	Prereqs: LING101 Coreqs: LING202 X-listings: CGSC353
<b>LING418</b>	Meaning and Language Use	Prereqs: LING101 X-listings: CGSC418, PHIL418
<b>LING471<sup>C,DLE</sup></b>	Discovering Human Language	Prereqs: LING101 X-listings: CGSC471
<b>PHIL320<sup>A</sup></b>	Theory of Knowledge	X-listings: CGSC320
<b>PHIL327<sup>A</sup></b>	Race, Gender, Science	X-listings: AFRA/CGSC/WOMS327
<b>PHIL330<sup>C</sup></b>	Philosophy of Mind	X-listings: CGSC330
<b>PSYC314<sup>D</sup></b>	Brain and Behavior	Prereqs: C- or higher in PSYC100 or NSCI100 X-listings: CGSC314
<b>PSYC340</b>	Cognition	Prereqs: C- or higher in PSYC207 and eligible statistics course X-listings: CGSC340

***Advice:***

- Eligible statistics courses are MATH202, MATH205, STAT200, SOCI301, PSYC209