Bachelor of Arts in Cognitive Science (CGSC)
46-48 units
Effective Fall 2021

Core Requirements (4 courses; 16 units)

__ PSYC 100Lg   Introduction to Psychology
__ PSYC 274Lg   Statistics
__ PSYC 301L   Cognitive Processes

   Choose one course from:
__ PSYC 339Lg   Origins of the Mind
or
__ PSYC 420   Animal Behavior

Flexible Core Requirements (5 courses; 20 units)

a) Tier 1: Choose two courses from:

__ CSCI 103L   Introduction to Programming
__ LING 210g   Introduction to Linguistics
__ LING 301   Introduction to Phonetics and Phonology
__ LING 302   Introduction to Syntax
__ PHIL 120g   Introduction to Formal Logic
__ PHIL 246   Foundations of Cognitive Science
__ PSYC 304L   Sensation and Perception

b) Tier 2: Choose three courses from:
__ CSCI 170   Discrete Methods in Computer Science
__ CSCI 270   Introduction to Algorithms and Theory of
                  Computing
__ CSCI 360   Introduction to Artificial Intelligence
__ HBIO 306   Biology of the Non-Human Primates
__ HBIO 308   Origins and Evolution of Human Behavior
__ LING 385L   Human Language as Computation
__ LING 405   Child Language Acquisition
__ LING 406   Psycholinguistics
__ LING 407   Atypical Language
__ LING 486   Natural Language Processing
__ LING 487   Speech Synthesis and Recognition
__ PHIL 222g   Logic and Language
__ PHIL 240g   Mind, Self, and Consciousness
__ PHIL 246   Foundations of Cognitive Science
__ PHIL 450   The Limits of Logic
__ PHIL 462   Philosophy of Mind
__ PHIL 465   Philosophy of Language
__ PSYC 304L   Sensation and Perception
__ PSYC 305   Learning and Memory
__ PSYC 320   Principles of Psychobiology
__ PSYC 336L   Developmental Psychology
__ PSYC 360   Abnormal Psychology
__ PSYC 422   Human Judgment and Decision Making
__ PSYC 433   Children's Learning and Cognitive Development

Tier 2 (continued)

__ PSYC 450   Neural Network Models of Social and Cognitive Processes
__ PSYC 454   Social Cognition

Electives: (3 courses; 10-12 units)

Choose three courses from:
__ BISC 230Lgx   The Biology of the Brain
__ BISC 421   Neurobiology
__ BISC 424   Brain Architecture
__ CSCI 103L   Introduction to Programming (see note #6)
__ CSCI 104L   Data Structures and Object Oriented Design
__ CSCI 109   Introduction to Computer Science
__ CSCI 170   Discrete Methods in Computer Science
__ CSCI 270   Introduction to Algorithms and Theory of
                  Computing
__ CSCI 360   Introduction to Artificial Intelligence
__ ECON 405   Neuroeconomics
__ HBIO 200Lg   The Human Animal
__ HBIO 306   Biology of the Non-Human Primates
__ HBIO 308   Origins and Evolution of Human Behavior
__ HBIO 406   Theory and Method in Human Evolutionary
                  Biology
__ ITP 115   Programming in Python (see note #7)
__ ITP 165   Introduction to C++ Programming
__ LING 210g   Introduction to Linguistics
__ LING 275Lg   Language and Mind
__ LING 285Lg   Human Language and Technology
__ LING 301   Introduction to Phonetics and Phonology
__ LING 302   Introduction to Syntax and Semantics
__ LING 307   Introduction to Speech-Language Pathology
__ LING 405   Child Language Acquisition
__ LING 406   Psycholinguistics
__ LING 407   Atypical Language
__ LING 412   Language and Law
__ LING 415   Phonetics
__ LING 486   Natural Language Processing
__ LING 487   Speech Synthesis and Recognition
__ PHIL 120g   Introduction to Formal Logic
__ PHIL 222g   Logic and Language
__ PHIL 240g   Mind, Self, and Consciousness
__ PHIL 246   Foundations of Cognitive Science
__ PHIL 254gp   Science, Knowledge and Objectivity
__ PHIL 258g   Probability and Rational Choice
__ PHIL 385   Science and Rationality

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Electives (continued)

__ PHIL 422   British Empiricism
__ PHIL 423   The Critical Philosophy of Kant
__ PHIL 427   20th Century Anglo-American Philosophy
__ PHIL 428   Anglo-American Philosophy Since 1950
__ PHIL 450   The Limits of Logic
__ PHIL 452   Modal Logic
__ PHIL 462   Philosophy of Mind
__ PHIL 463   Theories of Action
__ PHIL 465   Philosophy of Language
__ PHIL 486   Methodologies of the Sciences
__ PSYC 304L   Sensation and Perception
__ PSYC 314L   Experimental Research Methods
__ PSYC 326   Behavioral Neuroscience
__ PSYC 336L   Developmental Psychology
__ PSYC 422   Human Judgment and Decision Making
__ PSYC 423/MDA 423   User Experience
__ PSYC 424   Neuropsychology
__ PSYC 425   Functional Imaging of the Human Brain
__ PSYC 428   Advanced Psychobiology Seminar
__ PSYC 433   Children's Learning and Cognitive Development
__ PSYC 438   Behavioral Genetics
__ PSYC 440   Introduction to Cognitive Neuroscience
__ PSYC 450   Neural Network Models of Social and Cognitive Processes
__ PSYC 454   Social Cognition

Please Note:

1. All courses used to count towards the major must be taken for a letter grade.

2. Acceptable substitutions for PSYC 100Lg include, but are not limited to: AP Psychology score of 4 or 5 and Higher Level IB Psychology score of 5, 6, or 7. However, these substitutions do not earn General Education (GE) credit for students who started college in Fall 2015 or later. Please see Department of Psychology Academic Advisors for PSYC 100g prerequisite waivers.

3. On the Transfer Credit Report in OASIS, "TR-PSYC" for introduction to psychology courses taken at other institutions also will satisfy the Introduction to Psychology prerequisite for our upper level PSYC courses but will not earn General Education (GE) credit for students who started college in Fall 2015 or later. No prerequisite waiver is necessary.

4. A course that is listed in multiple areas (Flexible Core Tiers and/or Elective) can only satisfy one area. It will not "double" or "triple" count."

5. Students must choose a minimum of 16 upper division units (300-499 range) from the Flexible Core and Electives lists.

6. Students that are interested in focusing on aspects of Cognitive Science that draw from Computer Science should consider that units from these courses are outside of Dornsife College and will not be counted towards the required Dornsife College units.

7. ITP 115 is not intended to be taken if CSCI 103L is taken.

8. The USC Catalogue states 10-12 units are required for the CGSC Elective section.

9. Students may satisfy up to four upper division (300-499 range) major requirements through approved Dornsife Overseas Studies programs.

10. Some courses may have additional prerequisites or restrictions. Please check the USC Schedule of Classes and the USC Catalogue.

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