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Bachelor of Arts in Cognitive Science (CGSC)

46-48 units
Effective Fall 2024

Core Requirements (4 courses; 16 units)

- PSYC 100Lg Introduction to Psychology
- PSYC 274Lg Statistics
- PSYC 301L Cognitive Processes
- PHIL 246 Foundations of Cognitive Science

Flexible Core Requirements (5 courses; 20 units)

a) Tier 1: Choose two courses from:

- BISC 230 The Biology of the Brain
- CSCI 103L Introduction to Programming
- HBIO 200 The Human Animal
- LING 210g Introduction to Linguistics
- LING 275 Language and Mind
- LING 285 Human Language and Technology
- LING 301 Introduction to Phonology and Morphology
- LING 302 Introduction to Syntax
- PHIL 220 Introduction to Logic
- PHIL 222 Logic and Language
- PHIL 240 Mind, Self and Consciousness
- PHIL 254 Science, Knowledge and Objectivity
- PHIL 258 Probability and Rational Choice
- PSYC 304L Sensation and Perception

b) Tier 2: Choose three courses from:

- BISC 421 Neurobiology
- 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 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 412 Language and Law
- LING 486 Natural Language Processing
- LING 487 Speech Synthesis and Recognition
- PHIL 336 Philosophy of Mind and Language
- PHIL 363 Philosophy of Perception
- PHIL 462 Philosophy of Mind
- PHIL 463 Theories of Action
- PHIL 465 Philosophy of Language
- PHIL 470 Theory of Knowledge

Tier 2: (continued)

- PSYC 305 Learning and Memory
- PSYC 326 Behavioral Neuroscience
- PSYC 336L Developmental Psychology
- PSYC 339 Origins of the Mind
- PSYC 422 Human Judgment and Decision Making
- PSYC 423 User Experience
- PSYC 424 Neuropsychology
- PSYC 425 Functional Imaging of the Human Brain
- PSYC 433 Children's Learning and Cognitive Development
- PSYC 440 Foundations of Cognitive Neuroscience
- 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
- CGSC 490 Directed Research
- CGSC 498 Honors Thesis
- 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)
- 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
- LING 307 Linguistic Theory and Communication Disorders
- LING 405 Child Language Acquisition
- LING 406 Psycholinguistics
- LING 407 Atypical Language
- LING 412 Language and Law

Electives: (continued)

__ LING 415	Phonetics
__ LING 450	Forensic Speaker Identification
__ LING 486	Natural Language Processing
__ LING 487	Speech Synthesis and Recognition
__ PHIL 220	Introduction to 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 336	Philosophy of Mind and Language
__ PHIL 363	Philosophy of Perception
__ PHIL 385	Science and Rationality
__ PHIL 422	British Empiricism
__ PHIL 423	The Critical Philosophy of Kant
__ PHIL 427	20 th 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 470	Theory of Knowledge
__ PHIL 486	Methodologies of the Sciences
__ PSYC 215	Music, Mind and the Brain
__ PSYC 304L	Sensation and Perception
__ PSYC 305	Learning and Memory
__ PSYC 314L	Experimental Research Methods
__ PSYC 320	Principles of Psychobiology
__ PSYC 326	Behavioral Neuroscience
__ PSYC 336L	Developmental Psychology
__ PSYC 339	Origins of the Mind
__ PSYC 360	Psychological Disorders
__ PSYC 421	Data Analysis for Psychological Research
__ PSYC 422	Human Judgment and Decision Making
__ PSYC 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 436	Developmental Neuroscience of Human Behavior
__ PSYC 438	Behavioral Genetics
__ PSYC 440	Foundations of Cognitive Neuroscience
__ PSYC 450	Neural Network Models of Social and Cognitive Processes
__ PSYC 452	Social Neuroscience
__ 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.