

# Approved Electives

## 2019-2020



### Cognitive Science (COGS)

102A Cognitive Perspectives  
 102B Cognitive Ethnography  
 102C Cognitive Design  
 109 Modeling and Data Analysis  
 110 The Developing Mind  
 111 Beauty and the Brain  
 112 Humor  
 115 Neurological Dev. & Cognitive Change  
 118A Supervised Machine Learning Algorithms  
 118B Intro to Machine Learning II  
 118C Neural Signal Processing  
 118D Math. Stat. for Behavioral Data Analysis  
 119 Programming for Experimental Research  
 120 Interaction Design  
 121 HCI Programming Studio  
 122 Interaction Design Startup  
 123 Social Computing  
 124 HCI Technical Systems Research  
 125 Advanced Interaction Design  
 126 Human-Computer Interaction  
 127 Designing Huma-Data Interactions  
 128 Information Visualization  
 138 Neural Data Science  
 143 Animal Cognition  
 144 Social Cognition  
 151 Analogy and Conceptual Systems  
 152 Cognitive Foundations of Mathematics  
 153 Language Comprehension  
 154 Comm. Disorders in Children & Adults  
 155 Gesture and Cognition  
 156 Language Development  
 157 Music and the Mind  
 160 Upper Division Seminar on Special Topics  
 163 Metabolic Disorders/Brain  
 164 Neurobiology of Motivation  
 169 Genetic Information/Behavior  
 170 Brain Waves Across Scales  
 171 Mirror Neuron System  
 172 Brain Disorders and Cognition  
 174 Drugs: Brain, Mind and Culture  
 175 Neuropsych. Basis Alternate States/Conscious.  
 176 From Sleep to Attention  
 177 Space and Time in the Brain  
 178 Genes, Brains & Behavior  
 179 Electrophysiology of Cognition  
 180 Decision Making in the Brain  
 181 Neural Networks and Deep Learning  
 182 Introduction to Reinforcement Learning  
 184 Modeling the Evolution of Cognition  
 185 Adv. Machine Learning Methods  
 187A Usability & Info. Architecture  
 187B Practicum in Pro Web Design  
 188 Artificial Intelligence Algorithms  
 189 Brain Computer Interfaces

\*190A Pre-Honors Project in Cognitive Science  
 \*190B Honors Studies in Cognitive Science  
 \*190C Honors Thesis in Cognitive Science  
 \*195 Instructional Apprenticeship  
 \*198 Small Group Research  
 \*199 Independent Research

### Communication (COMM)

102C Practicum in New Media and Community Life

### Computer Science (CSE)

100 Advanced Data Structures  
 101 Design & Analysis of Algorithms  
 130 Program Lang: Principles & Paradigms  
 150A Intro to AI: Prob. Reasoning & Decision-Making  
 150B Intro to AI: Search and Reasoning  
 151A Introduction to Machine Learning  
 151B Deep Learning  
 160 Intro to Parallel Computation

### Design (DSGN)

100 Prototyping  
 160 Special Topics in Design

### Education Studies (EDS)

114 Cognitive Dev. and Interactive Computing Env.  
 115 Cognitive Development and Education  
 117 Language, Culture, and Education  
 136 Intro to Acad. Tut. Of Sec. Sch. Stud.  
 124AR Teach. Computation in the Digital World  
 124BR Teach. Computation Thinking/Everyone

### Linguistics (LIGN)

112 Speech Sounds and Speech Disorders  
 120 Morphology  
 121 Syntax I  
 130 Semantics  
 155 Evolution of Language  
 165 Computational Linguistics  
 169 Principles/Discourse and Dialog  
 170 Psycholinguistics  
 171 Child Language Acquisition  
 180 Language Representation in the Brain  
 181 Language Processing in the Brain

### Philosophy (PHIL)

134 Philosophy of Language  
 136 Philosophy of Mind  
 149 Philosophy of Psychology  
 150 Philosophy of the Cognitive Sciences  
 151 Philosophy of Neuroscience  
 163 Biomedical Ethics  
 164 Technology and Human Values

### Psychology (PSYC)

100 Clinical Psychology  
 111A Research Methods I  
 111B Research Methods II  
 115A Laboratory in Cognitive Psychology  
 115B Laboratory in Cognitive Psychology II  
 116 Lab. in Clinical Psychology Research  
 120 Learning and Motivation  
 122 Mechanisms of Animal Behavior  
 123 Cognitive Control + Frontal Lobe Function  
 125 Clinical Neuropsychology  
 129 Logic of Perception  
 132 Hormones and Behavior  
 133 Circadian Rhythms—Biological Clocks  
 134 Eating Disorders  
 138 Sound and Music Perception  
 140 Human Behavior Laboratory  
 144 Memory and Amnesia  
 145 Psychology of Language  
 150 Cognitive Neuroscience of Vision  
 159 Psychological Basis of Perception  
 168 Psychological Disorders of Childhood  
 169 Brain Damage and Mental Functions  
 170 Cognitive Neuropsychology  
 171 Neurobiology of Learning and Memory  
 174 Visual Cognition  
 176 Creativity  
 179 Drugs, Addiction, Mental Disorder  
 181 Drugs and Behaviors  
 182 Illusions and the Brain  
 188 Impulse Control Disorders  
 189 Brain, Behavior, and Evolution

### Cross-Campus Online

COGS 110: Philosophy of Cognitive Science (UC Merced)  
 PSYBEH 102C: Abnormal Psychology (UC Irvine)  
 Visit [crossenroll.universityofcalifornia.edu](http://crossenroll.universityofcalifornia.edu) to enroll

These courses will be accepted by the Cognitive Science Department as General Electives **without** a petition.

- At least 3 of your 6 total electives must be taken within the Cognitive Science Department (COGS courses).
- \*One course in the Cognitive science 19x (190A, 190B, 190C, 195, 198, 199) series may be used to satisfy elective requirements, but only with the approval of both the instructor who supervised and the undergraduate advisor.
- Only one COGS 160 course can be used toward elective requirement.