

# Approved Electives

2022-2023



## 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  
116 Developmental Cognitive Neuroscience  
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 Portfolio Design Studio  
122 Start-up Studio  
123 Social Computing  
124 HCI Technical Systems Research  
125 Advanced Interaction Design  
126 Thinking with Computers  
127 Data-Driven UX/Product Design  
128 Information Visualization  
137 Practical Data Science in R  
138 Neural Data Science  
142 Animal Communications  
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  
165 Neuroimaging of Cognition  
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  
186 Genetic Algorithms  
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 & Dec.-Making  
150B Intro to AI: Search and Reasoning  
151A Introduction to Machine Learning  
151B Deep Learning  
160 Intro to Parallel Computation  
170 Interactive Design

## 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 Cog. 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.