BRAIN AND COGNITIVE SCIENCE (BCOG)

BCOG Class Schedule (https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/BCOG)

Courses

BCOG 100  Introduction to the Brain and Cognitive Science  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BCOG/100)
Introduction to the study of mind, brain, and behavior. The course will cover how we study the mind and brain from a cognitive science perspective. The course will include topics in sensation, perception, learning, memory, thinking, artificial intelligence, animal cognition, and the development of the mind and brain.

BCOG 200  Introduction to Programming for the Brain and Cognitive Sciences  credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/BCOG/200)
Introduction to computer programming concepts and their application to the study of brain and cognitive sciences. The course will teach basic programming concepts in Python, and introduce applications to experiment and game design, data analysis, computational modeling, and simulations.

BCOG 301  Intelligence and the Brain  credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BCOG/301)
An introduction to the scientific study of human intelligence, with particular emphasis on modern research in cognitive neuroscience. For centuries, the nature of human intelligence has motivated considerable research and debate: What does it mean for humans to be intelligent? What mental abilities does intelligence refer to? How are these abilities shaped by the environment, cultivated through experience, and represented in the human brain? This course addresses these questions through the lens of modern research in psychology, psychometrics, and cognitive neuroscience. Students will investigate the nature and mechanisms of human intelligence from basic, clinical, and applied disciplines.