Text: *Cognition, Brain and Consciousness: An Introduction to Cognitive Neuroscience*

Course Requirements:
Participation: Students are expected to attend and participate in class. Participation will count **20%** of your grade.

Tests
Midterm—**30%** of your grade, multiple choice and short answer
Final—**50%** of your grade multiple choice and short answer

**Cognitive Neuroscience** is a highly interdisciplinary field focused on the computations of brain tissue that arise in mental states and cognitive processes. It draws basic data and theory from Cognitive Psychology, Neuroscience, Linguistics, and Computational modeling while synthesizing these fields into an integrative field. New tools such as neuroimaging methods, fMRI, EEG etc. as well as computational models are used to explore and elucidate the nature of the cognition and perceptual processing as they may be implemented in the brain. In this course we will study these basic experimental and theoretical results that define our understanding of brain function and structure as they relate to mental states and cognitive processing.

**Class Topics (week of):**
01/19: Introduction. no reading
01/26: Overview Chapter 1-2
02/02: Neurons: Units of Computation Chapter 3
02/09: Neuroimaging Tools Chapter 4
02/16: The Brain Chapter 5
02/23: Visual Processing I Chapter 6
03/02: Visual Processing II Object Recognition Chapter 7
03/09: REVIEW MIDTERM
03/11: MIDTERM
03/17: SPRING BREAK
03/23: Attention & Consciousness Chapter 8
03/30: Learning & Memory Chapter 9
04/06: Thinking & Cognition Chapter 10
04/13: Language Chapter 11
04/20: Executive Control & Action Chapter 12
04/27: Sleep Chapter 13
05/04: REVIEW

Date TBA FINAL