GS140173 Introduction to Cognitive Neuroscience

REQUIRED TEXTBOOK:


COURSE DIRECTOR:  COURSE FACILITATOR:

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LECTURE OUTLINE:

History of Cognitive Neuroscience  Dr. Hamilton
Neuroanatomy  Dr. Sereno

Methods of Cognitive Neuroscience
  a.  fMRI, TMS  Dr. Beauchamp
  b.  Computation  Dr. Patel
  c.  MEG  Dr. Frye

Sensation and Perception  Dr. Felleman

Streams of Processing: Pathways & Behavior  Dr. Sereno

Multisensory Integration  Dr. Beauchamp

Object Recognition  Dr. Beauchamp

Exam I on February 11

Control of Action  Dr. Beauchamp
Hypothalamus  Dr. Tong
The Limbic System  Dr. Wright
Learning and Memory
  a. Lesions / Models / Imaging Dr. Ellmore
  b. Humans & Animals Dr. Wright

Emotion Dr. Hamilton

Language
  a. Comprehension Dr. Martin
  b. Production Dr. Schnur

Neurobiology of Disease: Dyslexia Dr. Frye

Exam II on March 25

Attention
  a. History & Animal Studies Dr. Sereno
  b. Human Studies Dr. Jeter

Drugs & Cognition: Psychopharmacology Drs. Lane & Moeller

Impulsivity Drs. Moeller & Swann

Cognitive Control (Executive Functions) Dr. Jeter

Social Cognition (Theory of Mind) Dr. Wright

Neurobiology of Disease: Autism Dr. Frye

Sleep Dr. Slater

Development Dr. Wang

Exam III on April 29