BMS 325: INTRODUCTION TO CELLULAR NEUROBIOLOGY

INPUT

Sensory

Membrane Potential
(Hoernndli:Jan 23-Feb 13)

Key concepts:
- Capacitance
- Conductance
- Ions
- Electrochemical Gradient
- Resting Membrane Potential
- Nernst equation
- Action Potential

Exam 1 = 100pts (Feb 13)

Neuronal Excitation
(Hoernndli:Feb 15-Mar 08)

Key concepts:
- Voltage Clamp
- Ion Channels
- Ion Transporters
- Neuronal Activity
- Manipulating neuron activity

Exam 2 = 100pts (Mar 08)

Neuronal Transmission
(FH-Myers:Mar 11-Apr 08)

Key concepts:
- Synaptic structure
- Synaptic Vesicle
- Cycle
- Neurotransmitters
- Neurotransmitters Receptors
- Synaptic Integration
- G-protein Coupled Receptors
- Modulation of Synaptic Function

Exam 3 = 100pts (Apr 08)

Sensory Systems
(Myers:Apr 10-Apr 29)

Key concepts:
- Somatosensory
- Visual System
- Auditory System
- Vestibular System
- Olfactory System
- Chemical Senses

Exam 4 = 100pts (Apr 29)

Neuronal Systems
(Myers:May 01-May15)

Key concepts:
- Basic Motor networks
- Basics Physiological Networks
- Basics Cognitive networks

Finals = 100pts (May 15)

OUTPUT

Motor
Physiological
Cognitive

Neuronal Systems
Visual Rhetoric

Introduction to Visual Rhetoric
- Signs
- Historical context
- The rhetorical approach to visual culture

Part 1: January 16 - January 22

Constructing our community
- Iconic images
- Post-9/11 image culture
- Affect

Part 2: January 23 - March 8

Articulating others
- Identity
- Classification
- Subjectivity
- Hybridity
- Experiential landscapes

Building our sense of self
- Assemblages
- Class
- Performance

Part 3: March 20 - May 5

Changing Problematic Ideologies
- Culture jamming
- Social movements
- Graffiti
- Memes

Course Conclusions

Iconic Essay Due

Analysis Essay Due

Exam 1

Exam 2

Visual Portfolio Due

Part 1:
- January 16 - January 22

Part 2:
- January 23 - March 8

Part 3:
- March 20 - May 5

Exam 1

Exam 2