BMS 325 : INTRODUCTION TO CELLULAR NEUROBIOLOGY

**INPUT**

Sensory Systems

**OUTPUT**

Motor 
Physiological 
Cognitive

**Membrane Potential**
(Hoerndli: 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**
(Hoerndli: 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-May 15)

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

Finals = 100pts 
(May 15)
LEARNING OBJECTIVES

- Examine the breadth of sustainable design and construction as the field evolves
- Recognize the scope and complexity of sustainable principles as applied in professional practice
- Demonstrate the use of sustainable principles and practices in site development, building design and construction
- Formulate the decision-making processes when incorporating sustainable principles
- Examine real-world sustainable practice through project example and professional guest speakers
- Identify current sustainable technologies, highlighting the challenges and opportunities of emerging practices
- Practice the collaboration skills that are essential to sustainable design and construction projects

ASSIGNMENTS

- Sustainable Rating Systems Comparison – Due Sept. 22
- Technical Brief Project – Due date varies – see schedule on Canvas
- Passive Design Principles – Due Sept. 27

QUIZZES

- Quiz 1 – due Aug. 29
- Quiz 2 – due Sept. 19
- Quiz 3 – due Oct. 10
- Quiz 4 – due Oct. 31
- Quiz 5 – due Dec. 2

FIELD TRIPS

- Filed Trip to the Passive House – Sept. 15
- Filed Trip to the FoCO Utility Admin Building – Nov. 15
- Filed Trip to the REVIVE – Oct. 25
- Filed Trip to the Grey Rock – Oct. 11
- Extra-curricular Activity Reflection – Due Dec. 6
- Final Project on Zero-net Building – Due Dec. 5
- CSU Sustainable Building Project tours on Nov. 3
- Green Roof Comparison – Due Nov. 7
- CSU Sustainable Building Project Videos due Oct. 24

PROJECTS

- CSU Sustainable Building Project – Videos due Oct. 24
- Filed Trip to the FoCO Utility Admin Building – Nov. 15
- Extra-curricular Activity Reflection – Due Dec. 6
- Final Project on Zero-net Building – Due Dec. 5
- CSU Sustainable Building Project tours on Nov. 3
- Green Roof Comparison – Due Nov. 7
Visual Rhetoric

• Signs
• Historical context
• The rhetorical approach to visual culture

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

Articulating others
• Stereotyping
• Pornification
• Hybridity
• Experiential landscapes

Building our sense of self
• Assemblages
• Class
• Performance

Changing problematic ideologies
• Culture jamming
• Social movements
• Graffiti
• Memes

Part 1: January 16 - January 22

Part 2: January 23 - March 8

Part 3: March 20 - May 5

Iconic Essay Due
Exam 1
Analysis Essay Due
Exam 2

Visual Portfolio Due

Course Conclusions

Part 1: January 16 - January 22

Part 2: January 23 - March 8

Part 3: March 20 - May 5

Exam 1

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Course Conclusions

Part 1: January 16 - January 22

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