Brain and Behavior, CORE-UA.306.001  
Fall 2017  
MW 11-12:15, Room 207 Silver Center  
Professor Reyes

COURSE ORGANIZATION

Week 1  
Sept. 6 W  Introduction to Brain and Behavior  
Reading: Chapter 1  
Lab  NO LAB THIS WEEK

Week 2  
Sept. 11 M  Neural communication I: Electrical  
Reading: Chapter 3  
Sept. 13 W  Organization of the brain and nervous system  
Reading: Chapter 2 (Prof. Hawken)  
Lab 1  Introduction to the laboratory; Scientific method

Week 3  
Sept. 18 M  Neural communication I: Electrical  
Reading: Chapter 3  
Sept. 20  Neural communication II: Synapses  
Lab 2  Model Dendrite

Week 4  
Sept. 25 M  Neural communication III: Drugs and the brain  
Reading: Chapter 4  
Sept. 27 W  Organization of sensory systems  
Reading: Chapter 5  
Lab  Review

Week 5  
Oct. 2 M  Exam 1  
Oct. 4 W  Somatic sensation  
Lab 3  Sheep brain dissection

Week 6  
Oct. 9 M  No Classes  
Oct. 11 W  Motor system: Function and disorders  
Lab 4  Build your own brain
### Week 7
- **Oct. 16 M** Vision  
  Reading: Chapter 7
- **Oct. 18 W** Auditory and vestibular systems  
  Reading: Chapter 6: 144-164
- **Lab 5** Microscopy

### Week 8
- **Oct. 23 M** Chemical Sensation  
  Reading: Chapter 6: 164-171
- **Oct. 25 W** Learning and memory  
  Reading: Chapter 13, pg. 368-393
- **Lab 6** Sensation and Perception: Somatic sensation

### Week 9
- **Oct. 30 M** Development, experience, and plasticity  
  Reading: Chapter 13, pg. 393-407; Ch. 15, 464-471
- **Nov. 1 W** Review
- **Lab** Sensation and Perception: Vision

### Week 10
- **Nov. 6 M** **Exam 2**
- **Nov. 8 W** Cognition and Attention  
  Reading: Chapter 14
- **Lab 7** Review of exam

### Week 11
- **Nov. 13 M** Language and hemispheric asymmetry  
  Reading: Chapter 15, pg. 438-463
- **Nov. 15 W** Endocrine system: Hormones and the brain  
  Reading: Chapter 8, pg. 208-225
- **Lab 8** Sensation and Perception: Reaction Time

### Week 12
- **Nov. 20 M** Regulatory mechanisms 1: Homeostasis  
  Reading: Chapter 9
Nov. 22 W  Regulatory mechanisms 2: Biological rhythms, sleep
Reading: Chapter 10
No Lab: Thanksgiving

Week 13
Nov. 27 M  Motivation, Emotion & Stress
Reading: Chapter 11

Nov. 29 W  Fear and Anxiety disorders
Reading: Chapter 12, pg. 360-366
Lab 9  Action potentials in cockroach leg

Week 14
Dec. 4 M  Mental illness and brain disorders
Reading: Chapter 12, pg. 338-359

Dec. 6 W  Review
Lab 10  Animal behavior: C. elegans

Week 15
Dec. 11 M  Exam 3

Dec. 13 W  Review

FINAL EXAM: Monday, Dec. 18 10 – 11:50am