COURSE ORGANIZATION

Week 1
Jan 27  T  Introduction; History of neuroscience 1
   Reading: Chapter 1
Jan 29  R  History of neuroscience 2
   Lab     NO LAB THIS WEEK

Week 2
Feb  3  T  Organization of the brain and nervous system
   Reading: Chapter 2
Feb  5  R  Neurons and neural communication
   Lab     Introduction to the laboratory; Scientific method

Week 3
Feb 10  T  Neural communication: Electrical
   Reading: Chapter 3
Feb 12  R  Neural communication: Chemical
   Lab     Sheep brain dissection

Week 4
Feb 17  T  Neural communication: Drugs and the brain
   Reading: Chapter 4, pgs. 91-115
Feb 19  R  Evolution and Development of the nervous system
   Reading: Chapter 6
   Lab     Model dendrite

Week 5
Feb 24  T  Development, experience, and plasticity
   Reading: Chapter 7
Feb 26  R  Exam 1
   Lab     Review

Week 6
Mar  3  T  Organization of sensory systems
   Reading: Chapter 8, pgs. 223-235
Mar  5  R  Somatic sensation
   Reading: Chapter 8: 235-254
   Lab     Microscopy
Week 7
Mar 10 T  Vision
               Reading: Chapter 10
Mar 12 R  Visual perception
                 Lab  Sensation and Perception: Somatic sensation

Spring Break – No classes

Week 8
Mar 24 T  Auditory and vestibular systems
               Reading: Chapter 9, pg. 255-276
Mar 26 R  Motor system: Function and disorders
               Reading: Chapter 11
                 Lab  Sensation and Perception: Somatic sensation

Week 9
Mar 31 T  Cognition and Attention
               Reading: Chapter 18
Apr 2 R  Learning and memory 1
               Reading: Chapter 17, pgs. 525-541
                 Lab  Sensation and Perception: Reaction Time

Week 10
Apr 7 T  Learning and memory 2
               Reading: Chapter 17, pgs. 542-560
         Apr 9 R  Exam 2
                 Lab  Review

Week 11
Apr 14 T  Endocrine system: Hormones and the brain
               Reading: Chapter 5
Apr 16 R  Regulatory mechanisms 1: Homeostasis
               Reading: Chapter 13
                 Lab  Action potentials in cockroach leg

Week 12
Apr 21 T  Regulatory mechanisms 2: Biological rhythms, sleep
               Reading: Chapter 14
Apr 23 R  Motivation and Emotion
               Reading: Chapter 15
                 Lab  Build your own Brain

Week 13
Apr 28 T  Fear and Anxiety disorders
Apr 30 R  Mental illness and brain disorders I
               Reading: Chapter 16
                 Lab  Animal behavior: C. elegans
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<th>Date</th>
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| May 5  | T   | Mental illness and brain disorders II  
Reading: Chapter 4, pgs. 116-124 |
| May 7  | R   | Exam 3              |
|        | Lab | Review              |

**FINAL EXAM:** Thursday, May 14, 10 – 11:50am