

## BIOLOGY 308: HUMAN PHYSIOLOGY

Fall Semester, 2006

AC Brown

### **NEUROPHYSIOLOGY**

Aug 29 Tu Introduction; Membrane transport & Membrane potential  
Aug 31 Th Excitability and Neuron Action Potentials; Neuromuscular transmission  
  
Sep 5 Tu Muscle contraction; Synaptic transmission  
Sep 7 Th Sensory endings; Spinal reflexes  
  
Sep 12 Tu Autonomic nervous system  
Sep 14 Th Sensation; Somatic sensation; Pain  
  
Sep 19 Tu **EXAM**; Chemosensation (taste & smell)  
Sep 21 Th Hearing; Vestibular system  
  
Sep 26 Tu Vision: Optics, retina, pathways  
Sep 28 Th Motor cortex, Basal ganglia, Cerebellum

### **CARDIOVASCULAR SYSTEM**

Oct 3 Tu Sleep & EEG; Emotion; Language; Memory and learning  
Oct 5 Th Cardiac action potential & ECG; Cardiac cycle  
  
Oct 12 Tu Peripheral circulation; Capillary exchange  
Oct 14 Th Regional circulation; CV system regulation  
  
Oct 16-20 *Fall Break*  
  
Oct 24 Tu **EXAM**

### **RESPIRATORY SYSTEM**

Oct 24 Tu Respiratory ventilation  
Oct 26 Th Ventilation Pathophysiology; Alveolar ventilation; Blood gas transport  
  
Oct 31 Tu Pulmonary circulation; Alveolar-Arterial Equilibration; Respiratory regulation

### **RENAL SYSTEM**

Nov 2 Th Renal function  
  
Nov 7 Tu Water balance; Body compartments; Renal water regulation  
Nov 9 Th Renal electrolyte regulation; Acid-base balance

### **ALIMENTARY SYSTEM & METABOLISM**

Nov 14 Tu Alimentary motility; Digestion; Absorption  
Nov 16 Th Energy metabolism; Temperature regulation  
  
Nov 21 Tu **EXAM**

### **ENDOCRINOLOGY & REPRODUCTION**

Nov 21 Tu Blood, Hemostasis  
  
Nov 28 Tu Pituitary; Thyroid  
Nov 30 Th Calcium metabolism; Adrenals  
  
Dec 5 Tu Male reproductive system; Female reproductive system  
Dec 7 Th Birth; Lactation; Perinatal circulation & respiration  
  
Dec 14 Th Semester **EXAM**, 8-10 am