CAMB 532  
HUMAN PHYSIOLOGY

Fall 2021  Mon, Weds, Fri, 8:30-10:00am  
BRB 253
Directors: Dr's Tejvir S. Khurana, Benjamin L. Prosser, Paul M. Titchenell

Membrane Physiology
Sep. 1  Dr. Hoshi  Action Potentials/Voltage-gates Ion Channels
Sep. 3  Dr. Hoshi  Synaptic Transmission and Ligand-gated Ion Channels

Sept. 6  No class (Labor Day)

Nervous System
Sept. 8  Dr. Thomas  Nervous System
Sept. 10 Dr. Thomas  Central Nervous System
Sept. 13 Dr. Thomas  Peripheral Nervous System

Muscle Physiology
Sept. 15 Dr. Ostap  Contractile Proteins and Striated Muscle-1
Sept. 17 Dr. Ostap  Striated Muscle-2
Sept. 20 Dr. Ostap  Smooth Muscle

Cardiovascular System
Sept. 22 Dr. Prosser  Cardiac and Skeletal Muscle Signaling
Sept. 24 Dr. Margulies  Myocardial Physiology and Cardiac Pump Function
Sept. 27 Dr. Margulies  Vascular Physiology

Sept. 29  Self Study

Oct. 1  Dr. Margulies  Cardiovascular Integration

Oct. 4  Exam 1 (Membranes, Neuro, Muscle, Cardiovascular)

Renal System
Oct. 6  Dr. Hillburg  Organization of the Kidney and Glomerular Filtration
Oct. 8  Dr. Hillburg  Regulation of Sodium Balance
Oct. 11 Dr. Bahrainwala  Renal Regulation of Potassium and Acid Balance
Oct. 13 Dr. Bahrainwala  Renal Regulation of Water Balance

Oct. 14-17  No class (Fall Break)

Endocrine Physiology
Oct. 18 Dr. Titchenell  Neuroendocrinology
Oct. 20 Dr. Titchenell  Thyroid; Adrenal
Oct. 22 Dr. Titchenell  Glucose Homeostasis; Insulin Signaling

Reproductive Physiology
Oct. 25 Dr. Mainigi  Female Reproductive Physiology
Oct. 27 Dr. Dokras  Fertilization

Oct. 29  Self Study

Nov. 1  Dr. Masson  Male Reproductive Physiology
Nov. 3  Exam 2 (Renal, Endo, Reproductive)

Nov. 5  No class

Integration
Nov. 8  Dr. Khurana  Integrative Responses to Exercise
Nov. 10 Dr. Khurana  Integrative Responses to the Environment

Digestive System
Nov. 12 Dr. Hamilton  GI Tract Structure and Motility/Absorption
Nov. 15 Dr. Hamilton  The Integrated Response to a Meal
Nov. 17 Dr. Hayes  Neuro-endocrine control of food intake
Nov. 19 Dr. Thaiss  Gut microbiome

Sensory System
Nov. 22 Dr. Genovese  Sensory Physiology

Nov. 24  Self Study

Nov. 25-28  No Classes (Thanksgiving Break)

Respiratory System
Dec. 1  Dr. Frank  Ventilation/Perfusion & Gas Exchange and Transport
Dec. 3  Dr. Frank  Gas Exchange and Transport

Dec. 6  Self Study

Dec. 8  Exam 3 (Digestive, Respiratory, Sensory, Integration)