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. Litchenell	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)