

**CAMB 5320
HUMAN PHYSIOLOGY**

Spring 2023 Mon, Weds, Fri, 9-10:30am

Room Smilow Center Translation Research (SCTR) 10-146

Directors: Dr's Tejvir S. Khurana, Benjamin L. Prosser, Paul M. Titchenell

confirmed

Membrane Physiology

Jan. 11	Dr. Hoshi	Action Potentials/Voltage-gates Ion Channels
Jan. 13	Dr. Hoshi	Synaptic Transmission and Ligand-gated Ion Channels

Jan 16 No class (MLK)

Nervous System

Jan. 18	Dr. Thomas	Nervous System
Jan. 20	Dr. Thomas	Central Nervous System
Jan. 23	Dr. Thomas	Peripheral Nervous System

Muscle Physiology

Jan. 25	Dr. Ostap	Contractile Proteins and Striated Muscle-1
Jan. 27	Dr. Ostap	Striated Muscle-2
Jan. 30	Dr. Ostap	Smooth Muscle

Cardiovascular System

Feb. 1	Dr. Prosser	Cardiac and Skeletal Muscle Signaling
Feb. 3	Dr. Margulies	Myocardial Physiology and Cardiac Pump Function
Feb. 6	Dr. Margulies	Vascular Physiology
Feb. 8	Dr. Margulies	Cardiovascular Integration

Feb. 10 Self Study

Feb. 13 Exam 1 (Membranes, Neuro, Muscle, Cardiovascular)

Renal System

Feb. 15	Drs. Lohani/Fay	Organization of the Kidney and Glomerular Filtration
Feb. 17	Drs. Lohani/Fay	Regulation of Sodium Balance
Feb. 20	Dr. Spiardi	Renal Regulation of Potassium and Acid Balance
Feb. 22	Dr. Spiardi	Renal Regulation of Water Balance

Endocrine Physiology

Feb. 24	Dr. Titchenell	Neuroendocrinology
Feb. 27	Dr. Titchenell	Thyroid; Adrenal
Mar. 1	Dr. Titchenell	Glucose Homeostasis; Insulin Signaling

Mar. 3-10 No class (Spring Break)

Reproductive Physiology

Mar. 13	Dr. Mainigi	Female Reproductive Physiology
Mar. 15	Dr. Masson	Male Reproductive Physiology

Mar. 17 Self Study

Mar. 20	Dr. Dokras	Fertilization
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Mar. 22 Exam 2 (Renal, Endo, Reproductive)

Digestive System

Mar. 24	Dr. Ahuja	GI Tract
Mar. 27	Dr. Heuckeroth	Bowel motility and human motility disorders
Mar. 29	Dr. Hayes	Neuro-endocrine control of food intake
Mar. 31	Dr. Thaiss	Gut microbiome

Sensory System

Apr. 3	Dr. Genovese	Sensory Physiology
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Respiratory System

Apr. 5	Drs. Frank & Basil	Ventilation/Perfusion & Gas Exchange and Transport
April 7	Drs. Frank & Basil	Gas Exchange and Transport

Integration

Apr. 10	Dr. Khurana	Integrative Responses to Exercise
Apr. 12	Dr. Khurana	Integrative Responses to the Environment

Apr. 14 Self Study

Apr. 17 Exam 3 (Digestive, Respiratory, Sensory, Integration)