

**CAMB 532
HUMAN PHYSIOLOGY**

**Fall 2019 Mon, Weds, Fri, 9:00-10:30am
BRB 252**

Directors: Dr's Tejvir S. Khurana, Paul M. Titchenell & Ben Prosser

Membrane Physiology

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|---------|--------|-----------|---|
| Aug. 28 | BRB252 | Dr. Hoshi | Action Potentials/Voltage-gates Ion Channels |
| Aug. 30 | BRB252 | Dr. Hoshi | Synaptic Transmission and Ligand-gated Ion Channels |

Sept. 2 *No class (Labor Day)*

Nervous System

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|---------|--------|------------|---------------------------|
| Sept. 4 | BRB252 | Dr. Thomas | Nervous System |
| Sept. 6 | BRB252 | Dr. Thomas | Central Nervous System |
| Sept. 9 | BRB252 | Dr. Thomas | Peripheral Nervous System |

Muscle Physiology

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|----------|--------|-----------|--|
| Sept. 11 | BRB252 | Dr. Ostap | Contractile Proteins and Striated Muscle-1 |
| Sept. 13 | BRB252 | Dr. Ostap | Striated Muscle-2 |
| Sept. 16 | BRB252 | Dr. Ostap | Smooth Muscle |

Cardiovascular System

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|-----------------|--------------------------|---------------|---|
| Sept. 18 | BRB252 | Dr. Prosser | Cardiac and Skeletal Muscle Signaling |
| Sept. 20 | BRB252 | Dr. Margulies | Myocardial Physiology and Cardiac Pump Function |
| Sept. 23 | BRB252 | Dr. Margulies | Vascular Physiology |
| Sept. 25 | BRB252 | Dr. Margulies | Cardiovascular Integration |
| Sept. 27 | <i>Self Study</i> | | |

Sept. 30 *Exam 1 (Membranes, Neuro, Muscle, Cardiovascular)*

Renal System (Section #1)

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|---------------|--------------------------|------------------|--|
| Oct. 2 | BRB252 | Dr. Leonberg-Yoo | Organization of the Kidney and Glomerular Filtration |
| Oct. 4 | BRB252 | Dr. Leonberg-Yoo | Renal Regulation of Sodium Balance |
| Oct. 7 | <i>Self Study</i> | | |

Oct. 9 & 11 *No class (Fall Break)*

Respiratory System

| | | | |
|---------|--------|-------------------|---|
| Oct. 14 | BRB252 | Drs. Frank/Dysart | Lung Mechanics and Pulmonary Function Tests |
| Oct. 16 | BRB252 | Drs. Frank/Dysart | Ventilation and Perfusion |
| Oct. 18 | BRB252 | Drs. Frank/Dysart | Gas Exchange and Transport |

Endocrine Physiology

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|---------|--------|----------------|--|
| Oct. 21 | BRB252 | Dr. Titchenell | Neuroendocrinology |
| Oct. 23 | BRB252 | Dr. Titchenell | Thyroid; Adrenal |
| Oct. 25 | BRB252 | Dr. Titchenell | Glucose Homeostasis; Insulin Signaling |

Integration

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|---------|--------|-------------|--|
| Oct. 28 | BRB252 | Dr. Khurana | Integrative Responses to Exercise |
| Oct. 30 | BRB252 | Dr. Khurana | Integrative Responses to the Environment |

Renal System (Section #2)

Nov. 1 BRB252 Dr. Hilburg Renal Regulation of Potassium and Acid Balance
Nov. 4 BRB252 Dr. Hilburg Renal Regulation of Water Balance
Nov. 6 Self Study
Nov. 8 Exam 2 (Endocrine, Respiratory, Integration, Renal)

Nov. 11 No Class

Sensory System

Nov. 13 BRB252 Dr. Genovese Olfactory System

Digestive System

Nov. 15 BRB252 Dr. Foskett GI Tract Structure and Motility/Absorption
Nov. 18 BRB252 Dr. Foskett The Integrated Response to a Meal
Nov. 20 BRB252 Dr. Foskett Liver Physiology

Reproductive Physiology

Nov. 22 BRB252 Dr. Dokras Fertilization

Nov. 25-29 No Classes (Thanksgiving Break)

Dec. 2 BRB252 Dr. Mainigi Female Reproductive Physiology
Dec. 4 BRB252 Dr. Masson Male Reproductive Physiology

Dec. 6 Self Study

Dec. 9 Exam 3 (Digestive, Reproductive)