

Fundamentals of Human Physiology - PHPY 5005Q

Spring 2024 Course Schedule - Mondays 2PM-5PM

Please note room change: MSB B554

Date and Location	Topic	Lecturer
Week 1: January 8, 2024	Course Introduction (Dr. Gaspers) Cell Physiology -The Cell Membrane and Membrane Transport	Dr. Patricio Mujica In-person and remote
January 15, 2024	Martin Luther King Day – NO CLASSES	HOLIDAY
Week 2: January 22, 2024	Cell Physiology – Electrical Properties of the Cell/Cell Signaling Basics	Dr. Patricio Mujica In-person and remote
Week 3: January 29, 2024	Quiz 1 (2-2:30 PM) AND Muscle Physiology - The Physiology of Skeletal, Smooth and Cardiac Muscle	Dr. Patricio Mujica In-person and remote
Week 4: February 5, 2024	Cardiovascular Physiology -Cardiovascular Action Potentials, Electrical Activity of the Heart and the Cardiac Cycle	Dr. Krista Blackwell (Virtual)
Week 5: February 12, 2024	Quiz 2 (2-2:30 PM) AND Cardiovascular Physiology - The Regulation of Cardiac Output, Hemodynamics of the Cardiovascular System; Regulation of the Cardiovascular System	Dr. Krista Blackwell (Virtual)
Week 6: February 19, 2024	Respiratory Physiology - Lung Mechanics (Part A and B)	Dr. Krista Blackwell (Virtual)
Week 7: February 26, 2024	Quiz 3 (2-2:30 PM) AND Respiratory Physiology - Gas Exchange and Gas Transport; Ventilation-Perfusion Relationship; Hypoxia/Hypoxemia and the Control of Respiration	Dr. Krista Blackwell (Virtual)
Week 8: March 4, 2024	Midterm Exam	In-person or remote

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Week 9: March 11, 2024	GI Physiology - Innervation of the GI Tract; Secretions of the GI Tract Motility of the GI Tract	Dr. Ronaldo Ferraris In-person and remote
Week 10: March 18, 2024	Quiz 4 (2-2:30 PM) AND GI Physiology - Nutrient Absorption of the GI Tract; Bile Production and Liver Function	Dr. Ronaldo Ferraris In-person and remote
Week 11: March 25, 2024	Renal Physiology - Introduction; Body Fluids, Glomerular Filtration Rate; Sodium Balance	Dr. Tibor Rohacs In-person and remote
Week 12: April 1, 2023	Quiz 5 (2-2:30 PM) AND Renal Physiology – Water Balance; Secretion, HCO_3^- Reabsorption; Reabsorption of Nutrients (K^+ , Phosphate and Mg Balance) Acid-Base Balance (by the Lungs and Kidneys) Assigned Podcasts by Dr. Blackwell	Dr. Tibor Rohacs In-person and remote
Week 13: April 8, 2023	Endocrine Physiology - Hypothalamic-Pituitary Control Systems Growth Hormone and IGF Regulation of the Adrenal Axis	Dr. Larry Gaspers In-person and remote
Week 14: April 15, 2023	Quiz 6 (2-2:30 PM) AND Endocrine Physiology - The Thyroid Axis and the Thyroid Gland, the Parathyroid Gland and the Endocrine Pancreas	Dr. Larry Gaspers In-person and remote
Week 15: April 22, 2023	Study week	

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Week 16: April 29, 2023	Final exam	In-person or remote
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