

Medical Physiology Lecture Schedule 2019-2020

Textbooks: Textbook of Medical Physiology, Guyton & Hall, 13th Edition
 Pocket Companion to Textbook of Medical Physiology, Guyton & Hall (not required, but useful)

| Date | Day | Time | Topic | Chapt. | Faculty | Room | |
|-------------|-----|----------------------------|--|--------|----------------|--------------|--|
| 1/6 | M | 10:00-10:50 | Functional Organization of the Human Body (Intro) | 1 | Hall | SM122 | |
| | | 11:00-11:50 | Transportation of Substances through a Membrane I | 4 | Adair | SM122 | |
| | | 1:00-1:50 | Transportation of Substances through a Membrane II | 4 | Adair | SM122 | |
| 1/7 | T | 10:00-10:50 | Membrane and Action Potentials I | 5 | Adair | SM122 | |
| | | 11:00-11:50 | Membrane and Action Potentials II | 5 | Adair | SM122 | |
| 1/8 | W | 10:00-10:50 | Contraction of Skeletal Muscle I | 6 | Adair | SM122 | |
| | | 11:00-11:50 | Contraction of Skeletal Muscle II | 6 | Adair | SM122 | |
| 1/9 | TH | 10:00-10:50 | Excitation of Skeletal Muscle I | 7 | Adair | SM122 | |
| | | 11:00-11:50 | Excitation of Skeletal Muscle II | 7 | Adair | SM122 | |
| 1/10 | F | 10:00-10:50 | Contraction and Excitation of Smooth Muscle | 8 | Adair | SM122 | |
| | | 11:00-11:50 | Neuromuscular Disorder Clinical Correlation | | Witt | SM122 | |
| 1/13 | M | 9:00-10:50 | Quiz Chapters 1, 4-8 | | Adair | SM122 | |
| 1/14 | T | 10:00-11:50 | Homeostasis and Blood Coagulation | 37 | | SM122 | |
| 1/15 | W | 10:00-10:50 | Blood Types and Transfusions | 36 | | SM122 | |
| | | 11:00-11:50 | Resistance to Infection I | 34 | | SM122 | |
| | | Introduction to Lab | | | | | |
| | | 1:00-1:50 | Groups 1-8 | | Hester | SM122 | |
| | | 2:00-2:50 | Groups 9-16 | | Hester | SM122 | |
| | | 3:00-3:50 | Groups 17-24 | | Hester | SM122 | |
| | | 4:00-4:50 | Groups 25-32 | | Hester | SM122 | |
| 1/17 | F | 10:00-10:50 | Resistance to Infection II | 35 | | SM122 | |
| | | 11:00-11:50 | RBC, Anemia, and Polycythemia | 33 | | SM122 | |
| MLK Holiday | | | | | | | |
| 1/21 | T | 9:00-10:50 | Quiz Chapters 33-37 | | | SM122 | |
| 1/22 | W | 10:00-10:50 | Heart Muscle | 9 | Chade | SM122 | |
| | | 11:00-11:50 | Rhythmical Excitation of the Heart | 10 | Chade | SM122 | |
| 1/23 | TH | 10:00-10:50 | Normal Electrocardiogram | 11 | Chade | SM122 | |
| | | 11:00-11:50 | Interpretation of Cardiac Muscle I | 12 | Chade | SM122 | |
| 1/24 | F | 9:00-9:50 | Interpretation of Cardiac Muscle II | 12 | Chade | SM122 | |
| | | 10:00-11:50 | EKG PBL | | Bennett | SM122 | |
| 1/28 | T | 10:00-10:50 | Cardiac Arrhythmias I | 13 | Chade | SM122 | |
| | | 11:00-11:50 | Cardiac Arrhythmias II | 13 | Chade | SM122 | |
| 1/29 | W | 10:00-10:50 | Cardiac Arrhythmias III | 13 | Chade | SM122 | |
| 1/30 | TH | 10:00-10:50 | Introduction to Circulation I | | Granger | SM122 | |
| | | 11:00-11:50 | Introduction to Circulation II | | Granger | SM122 | |
| 2/3 | M | 10:00-10:50 | Overview of the Circulation | 14 | Granger | SM122 | |
| | | 11:00-11:50 | Vascular Distensibility | 15 | Granger | SM122 | |
| | | Cardiovascular Lab | | | | | |
| | | 1:00-1:50 | Groups 13-16 | | Hester | | |
| | | 2:00-2:50 | Groups 1-4 | | Hester | | |
| | | 3:00-3:50 | Groups 5-8 | | Hester | | |
| | | 4:00-4:50 | Groups 9-12 | | Hester | | |
| 2/4 | T | 10:00-10:50 | Microcirculation and the Lymphatic System | 16 | Granger | SM122 | |
| | | 11:00-11:50 | Control of Blood Flow | 17 | Granger | SM122 | |

Items listed in red indicate a mandatory attendance.
Quizzes and exams are written in blue.

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| 2/5 | W | 10:00-10:50 | Nervous Control of the Circulation | 18 | Granger | SM122 | |
| | | 11:00-11:50 | Long-Term Regulation of Blood Pressure | 19 | Granger | SM122 | |
| | | Cardiovascular PBL | | | | | |
| | | 1:00-2:50 | Groups 1-16 | | Granger/Clark | <small>SM122, SM105, SM106, SM107, SM108, SM109</small> | |
| | | 3:00-4:50 | Groups 17-32 | | Granger/Clark | <small>SM122, SM105, SM106, SM107, SM108, SM109</small> | |
| 2/6 | TH | 10:00-10:50 | Hypertension | 19 | Granger | SM122 | |
| | | 11:00-11:50 | Cardiac Output/Venous Return I | 20 | Granger | SM122 | |
| | | Cardiovascular Lab | | | | | |
| | | 1:00-1:50 | Groups 29-32 | | Hester | | |
| | | 2:00-2:50 | Groups 17-20 | | Hester | | |
| | | 3:00-3:50 | Groups 21-24 | | Hester | | |
| | | 4:00-4:50 | Groups 25-28 | | Hester | | |
| 2/7 | F | 10:00-10:50 | Cardiac Output/Venous Return II | 20 | Granger | R153 | |
| | | 11:00-11:50 | Exercise and Coronary Blood Flow | 21 | Granger | R153 | |
| 2/11 | T | 10:00-10:50 | Cardiac Failure I | 22 | Chade | SM122 | |
| | | 11:00-11:50 | Cardiac Failure II | 22 | Chade | SM122 | |
| 2/12 | W | 10:00-10:50 | Heart Valves, Heart Sounds I | 23 | Chade | SM122 | |
| | | 11:00-11:50 | Heart Valves, Heart Sounds II | 23 | Chade | SM122 | |
| 2/14 | F | 10:00-10:50 | Cardiology Clinical Correlation | | McMullan | SM122 | |
| | | 11:00-11:50 | Circulatory Shock | 24 | Chade | SM122 | |
| 2/17 | M | 9:00-11:50 | Quiz Chapters 9-24 | | Chade/Granger | SM122 | |
| 2/24 | M | 10:00-10:50 | Body Fluid Compartments | 25 | Hall | SM122 | |
| | | 11:00-11:50 | Abnormalities of Body Fluid Regulation | 25 | Hall | SM122 | |
| 2/25 | T | 10:00-11:50 | Body Fluids PBL | | Hall | SM122 | |
| 2/26 | W | 10:00-10:50 | The Urinary System | 26 | Hall | SM122 | |
| | | 11:00-11:50 | Glomerular Filtration, Renal Blood Flow | 27 | Hall | SM122 | |
| 2/27 | TH | 10:00-10:50 | Renal Tubular Reabsorption and Secretion | 28 | Hall | SM122 | |
| | | 11:00-11:50 | Regulation of Renal Tubular Reabsorption | 28 | Hall | SM122 | |
| 2/28 | F | 10:00-10:50 | Assessment of Kidney Function, Renal Clearances | 28 | Hall | SM122 | |
| | | 11:00-11:50 | Urine Concentration and Dilution | 29 | Hall | SM122 | |
| 3/2 | M | 10:00-10:50 | Regulation of Extracellular Osmolarity | 29 | Hall | SM122 | |
| | | 11:00-11:50 | Renal Regulation of Potassium and Calcium | 30 | Hall | SM122 | |
| 3/3 | T | 10:00-10:50 | Integration of Renal Mechanisms | 30 | Hall | SM122 | |
| | | 11:00-11:50 | Acid-Base Regulation | 31 | Hall | SM122 | |
| 3/4 | W | 10:00-10:50 | Acid-Base Disorders and Renal Compensations | 31 | Hall | SM122 | |
| | | 11:00-11:50 | Renal Clinical Correlation | | Dossabhoy | SM122 | |
| 3/5 | TH | Kidney PBL | | | | | |
| | | 1:00-2:50 | Groups 1-16 | | Hall/Shafi | <small>SM105, SM106, SM107, SM108</small> | |
| | | 3:00-4:50 | Groups 17-32 | | Hall/Shafi | <small>SM105, SM106, SM107, SM108</small> | |
| 3/6 | F | 10:00-10:50 | Diuretics, Kidney Diseases | 32 | Hall | SM122 | |
| | | 11:00-11:50 | Pathophysiology of Kidney Disease | 32 | Hall | SM122 | |
| 3/9 | M | 9:00-10:50 | Quiz Chapters 25-32 | | Hall | SM122 | |
| Spring Break | | | | | | | |

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|-------------|----------|--------------------|--|--------|----------------------|--------------|
| 3/16 | M | 10:00-10:50 | Pulmonary Ventilation I | 38 | Hester | SM122 |
| | | 11:00-11:50 | Pulmonary Ventilation II | 38 | Hester | SM122 |
| 3/17 | T | 10:00-10:50 | Pulmonary Circulation, Edema, Pleural Fluid I | 39 | Hester | SM122 |
| | | 11:00-11:50 | Pulmonary Circulation, Edema, Pleural Fluid II | 39 | Hester | SM122 |
| 3/18 | W | 10:00-10:50 | Gas Exchange I | 40 | Hester | SM122 |
| | | 11:00-11:50 | Gas Exchange II | 40 | Hester | SM122 |
| 3/19 | TH | 10:00-10:50 | Transportation of Oxygen and Carbon Dioxide I | 41 | Hester | SM122 |
| | | 11:00-11:50 | Transportation of Oxygen and Carbon Dioxide II | 41 | Hester | SM122 |
| 3/20 | F | 8:00-8:50 | X-Ray Clinical Correlation | | Bhagat | SM122 |
| 3/23 | M | 10:00-10:50 | Respiratory PBL | | Abraham | SM122 |
| | | 11:00-11:50 | Respiratory PBL | | Abraham | SM122 |
| 3/24 | T | 10:00-10:50 | Respiratory PBL | | Abraham | SM122 |
| | | 11:00-11:50 | Respiratory PBL | | Abraham | SM122 |
| 3/25 | W | 9:00-9:50 | Respiratory Control | 43 | Hester | SM122 |
| | | 10:00-10:50 | Physiology of Aviation and Deep Sea Diving | 44-45 | Hester | SM122 |
| 3/26 | TH | 2:00-2:50 | Sports Physiology | 85 | Hester | SM122 |
| 3/30 | M | 9:00-10:50 | Quiz Chapters 38-41, 43-45, 85 | | Hester | SM122 |
| 3/31 | T | 9:00-9:50 | General Principles of GI Function I | 63 | Adair | SM122 |
| | | 10:00-10:50 | General Principles of GI Function II | 63 | Adair | SM122 |
| 4/1 | W | 9:00-9:50 | Propulsion and Mixing of Food I | 64 | Adair | SM122 |
| | | 10:00-10:50 | Propulsion and Mixing of Food II | 64 | Adair | SM122 |
| 4/2 | TH | 10:00-10:50 | Secretory Function of the Alimentary Tract I | 65 | Adair | SM122 |
| 4/6 | M | 1:00-1:50 | Secretory Function of the Alimentary Tract II | 65 | Adair | SM122 |
| | | 2:00-2:50 | Secretory Function of the Alimentary Tract III | 65 | Adair | SM122 |
| 4/7 | T | 10:00-10:50 | Digestion/Absorption in the GI Tract | 66 | Adair | SM122 |
| | | 11:00-11:50 | Physiology of GI Disorders | 67 | Adair | SM122 |
| 4/8 | W | 10:00-10:50 | GI Disorders Clinical Correlation | | Glover | SM122 |
| | | 11:00-11:50 | Liver as an Organ | 71 | Adair | SM122 |
| 4/9 | TH | 10:00-10:50 | Energetics and Metabolic Rate | 73 | Adair | SM122 |
| | | 11:00-11:50 | Body Temperature and Regulation | 74 | Adair | SM122 |
| 4/10 | F | 10:00-10:50 | Dietary Balances | 72 | Hall | SM122 |
| | | 11:00-11:50 | GI Review | | Adair | SM122 |
| 4/13 | M | 9:00-10:50 | Quiz Chapters 63-67, 71-74 | | Adair | SM122 |
| 4/14 | T | 10:00-10:50 | Intro to Endocrinology | 75 | Ryan | SM122 |
| | | 11:00-11:50 | Anterior Pituitary/Growth Hormone | 76 | Ryan | SM122 |
| 4/15 | W | 10:00-10:50 | Growth Hormone/Posterior Pituitary | 76 | Ryan | SM122 |
| | | 11:00-11:50 | Thyroid | 77 | Ryan | SM122 |
| 4/16 | TH | 10:00-10:50 | Adrenal/Mineralocorticoids | 78 | Ryan | SM122 |
| | | 11:00-11:50 | Thyroid Disorders Clinical Correlation | | Gomez-Sanchez | SM122 |
| 4/17 | F | 9:00-9:50 | Mineralocorticoids/Glucocorticoids | 78 | Ryan | SM122 |
| | | 10:00-10:50 | Insulin and Glucagon I | 79 | Ryan | SM122 |
| 4/20 | M | 10:00-10:50 | Insulin and Glucagon | 79 | Ryan | SM122 |
| | | 11:00-11:50 | Diabetes Clinical Correlation | | Subauste | SM122 |

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|------------------|---------------------|----------------------|---|--------------|-----------------|--------------|--|
| 4/21 | T | 10:00-10:50 | Bone Physiology/Calcium Homeostasis | 80 | Ryan | SM122 | |
| | | 11:00-11:50 | Calcium Homeostasis/Male Reproduction | 80-81 | Ryan | SM122 | |
| | | 1:00-1:50 | Calcium Disorders Clinical Correlation | | Yanes | SM122 | |
| 4/22 | W | 10:00-10:50 | Male Reproduction/Female Reproduction | 81-82 | Ryan | SM122 | |
| | | 11:00-11:50 | Female Reproduction/Pregnancy | 82-83 | Ryan | SM122 | |
| | | Endocrine Lab | | | | | |
| | | 1:00-1:50 | Groups 9-12 | | Hester | SM105 | |
| | | 2:00-2:50 | Groups 13-16 | | Hester | SM105 | |
| | | 3:00-3:50 | Groups 1-4 | | Hester | SM105 | |
| | | 4:00-4:50 | Groups 5-8 | | Hester | SM105 | |
| 4/23 | TH | 8:00-8:50 | Diabetes Clinical Correlation | | Subauste | SM122 | |
| | | 10:00-10:50 | Pregnancy/Neonatal Physiology | 83-84 | Ryan | SM122 | |
| | | 11:00-11:50 | Neonatal Physiology | 84 | Ryan | SM122 | |
| | | Endocrine Lab | | | | | |
| | | 1:00-1:50 | Groups 25-28 | | Hester | SM105 | |
| | | 2:00-2:50 | Groups 29-32 | | Hester | SM105 | |
| | | 3:00-3:50 | Groups 17-20 | | Hester | SM105 | |
| 4:00-4:50 | Groups 21-24 | | Hester | SM105 | | | |
| 4/24 | F | 10:00-10:50 | Review of Endocrinology | | Ryan | SM122 | |
| | | 11:00-11:50 | Sex Steroids Clinical Correlation | | Yanes | SM122 | |
| 4/27 | M | 9:00-10:50 | Quiz Chapters 75-84 | | Ryan | SM122 | |
| 5/1 | F | 8:00-11:50 | Cumulative Final Exam | | All Faculty | SM122 | |
| 5/4 | M | 8:00-11:50 | Physiology National Board Exam | | All Faculty | SM122 | |
| End of Course | | | | | | | |

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