

heCaTOS (SMD 572)
Class Schedule 2016-17

Last revised: 3/1/17 8:34:00 AM

Week 1			
Time/Location	Topic	Faculty	Assignments/Readings
Day Monday, January 2			
New Year's Holiday – No Classes			
Day 1 Tuesday, January 3			
9:00 – 9:50 am	Introduction to the Course	Ream	
10:00 – 10:50 am	Introduction to Cells I	Ream	
11:00 – 11:50 am	Introduction to Cells II	Ream	
Day 2 Wednesday, January 4			
8:00 – 8:50 am	Cell Membranes I	Ream	
9:00 – 9:50 am	Cell Membranes II	Ream	
10:00 – 10:50 am	Cell Membranes III	Ream	
11:00 – 11:50 am	Cell Physiology I	Putnam	
Day 3 Thursday, January 5			
8:00 – 8:50 am	Cell Physiology II	Putnam	
9:00 – 9:50 am	Cell Physiology III	Putnam	
10:00 – 10:50 am	Cytosol, Inclusions, Intracellular Compartments, Ribosomes	Ream	
Online Lecture	Organelles	Ream	
11:00 – 11:50 am	Peer Instruction: Membranes and Organelles	Ream	
Week 2			
Time/Location	Topic	Faculty	Assignments/Readings
Day 4 Monday, January 9			
Online Lecture	Cytoskeleton	Ream	
10:00 – 10:50 am	Peer Instruction: Cell Physiology	Elbasiouny	
Online Lecture	Cell Surface Specializations	Ream	
Day 5 Tuesday, January 10			
Self Study	Receptors and Cell Signaling	Trout	
10:00 – 10:50 am	Cell Junctions	Ream	
Online Lecture	Nucleus	Ream	
11:00 – 11:50 am	Mechanics of Cell Division	Ream	
Day 6 Wednesday, January 11			
8:00 – 8:50 am	Cell Cycle Control: Genomic Regulation	Brown	
9:00 – 9:50 am	Cell Death	Brown	
10:00 – 10:50 am	Homeostasis	Putnam	
11:00 – 11:50 am	Peer Instruction: Receptors and Cell Signaling	Trout	
Day 7 Thursday, January 12			
Self Study	Extracellular Matrix	Ream	
10:00 – 10:50 am	Electron Micrographs	Ream	
11:00 – 11:50 am	Peer Instruction: Cytoplasm, Cytoskeleton, Cell Surface and Nucleus	Ream	
Week 3			
Time/Location	Topic	Faculty	Assignments/Readings
Monday, January 16			

	Martin Luther King Holiday University Closed		
Day 8 Tuesday, January 17			
9:00 am – 12 pm 101 WH	CaTOS Exam I		
Day 9 Wednesday, January 18			
8:00 – 8:50 am	Introduction to Tissues and Organs	Ream	
9:00 – 9:50 am	Overview of Lab and Computer Program	Ream	
10:00 – 11:50 am	LM Lab: Cells and Cell Components	Ream	
Day 10 Thursday, January 19			
10:00 – 10:50 am	Epithelial Tissue	Ream	
Online Lecture	Exocrine Glands	Ream	
11:00 – 11:50 am	Epithelial Physiology	Wyatt	
Week 4			
Time/Location	Topic	Faculty	Assignments/Readings
Day 11 Monday, January 23			
10:00 – 10:50 am	Connective Tissue	Ream	
Online Lecture	Resident Connective Tissue Cells	Ream	
Self Study	Cartilage	Ream	
11:00 – 11:50 am	Bone I	Ream	
1:00 – 2:50 pm	LM Lab: Epithelial Tissue	Ream	
Day 12 Tuesday, January 24			
10:00 – 10:50 am	Bone II	Ream	
11:00 – 11:50 am	Bone Marrow and Hemopoiesis	Ream	
1:00 – 2:50 pm	LM Lab: Exocrine Glands	Ream	
Day 13 Wednesday, January 25			
9:00 – 9:50 am	Blood Function and Plasma Proteins	Cambronero	
10:00 – 10:50 am	Hemopoiesis and Growth Factors	Cambronero	
11:00 – 11:50 am	Computer Lab: Cartilage and Bone	Ream	
Day 14 Thursday, January 26			
8:00 – 8:50 am	Red Blood Cells and Hemoglobin	Cambronero	
9:00 – 9:50 am	White Blood Cells and Inflammation	Cambronero	
10:00 – 10:50 am	Voltage-gated Ion Channels	Wyatt	
11:00 – 11:50 am	Peer Instruction: Cells, Epithelium, Glands, Cartilage and Bone	Ream	
1:00 – 2:50 pm	LM Lab: Connective Tissue	Ream	
Week 5			
Time/Location	Topic	Faculty	Assignments/Readings
Day 15 Monday, January 30			
8:00 – 8:50 am	Ligand-gated Ion Channels	Wyatt	
9:00 – 9:50 am	Peer Instruction: G-Protein Coupled Receptors and NO	Wyatt	
10:00 – 10:50 am	Nervous Tissue I	Ream	
11:00 – 11:50 am	Nervous Tissue II	Ream	

1:00 – 2:50 am	LM Lab: Peripheral Blood and Bone Marrow	Ream	
Day 16 Tuesday, January 31			
10:00 – 10:50 am	Peripheral Nervous System I	Ream	
11:00 – 11:50 am	Peripheral Nervous System II	Ream	
Online Lecture	Autonomic Nervous System	Ream	
Self Study	Central Nervous System	Ream	
1:00 – 2:50 pm	LM Lab: Nervous Tissue	Ream	
Day 17 Wednesday, February 1			
Online Lecture	Eye	Ream	
Online Lecture	Ear	Ream	
Self-Study	Action Potentials and Synaptic Transmission	Bennett	
9:00 – 10:20 am	Overview	Bennett	
10:30 – 11:50 am	Peer Instruction: Action Potentials and Synaptic Transmission	Bennett	
Day 18 Thursday, February 2			
Self Study	Muscle Tissue	Ream	
10:00 – 10:50 am	Computer Lab: Eye and Ear	Ream	
11:00 – 11:50 am	Peer Instruction: Connective Tissue, Blood and Peripheral Nervous System	Ream	
Week 6			
Time/Location	Topic	Faculty	Assignments/Readings
Day 19 Monday, February 6			
9:00 – 9:50 am	Muscle Physiology I	Putnam	
10:00 – 10:50 am	Muscle Physiology II	Putnam	
11:00 – 11:50 am	Cardiovascular System I	Ream	
1:00 – 2:50 pm	LM Lab: Muscle Tissue	Ream	
Day 20 Tuesday, February 7			
8:00 – 8:50 am	Cardiovascular System II	Ream	
9:00 – 9:50 am	Cardiovascular Physiology I	Putnam	
10:00 – 10:50 am	Cardiovascular Physiology II	Putnam	
11:00 – 11:50 am	Computer Lab: Cardiovascular System	Ream	
Day 21 Wednesday, February 8			
Self Study	Integumentary System I	Ream	
10:00 – 10:50 am	Cardiovascular Physiology III	Putnam	
11:00 – 11:50 am	Cardiovascular Physiology IV	Putnam	
Day 22 Thursday, February 9			
9:00 – 9:50 am	Computer Lab: Integumentary System	Ream	
10:00 – 10:50 am	Electron Micrographs	Ream	
11:00 – 11:50 am	Peer Instruction: Eye, Ear, CV, Skin and Muscle	Ream	
Week 7			
Time/Location	Topic	Faculty	Assignments/Readings
Day 23 Monday, February 13			
	No Class – Study Day		

Day 24 Tuesday, February 14			
9:00 am – 12pm	CaTOS Exam II – Lab Exam		
1:00 – 4:00 pm	CaTOS Exam II – Computer Exam		
Day 25 Wednesday, February 15			
9:00 – 9:50 am	Endocrine System I	Ream	
10:00 – 10:50 am	Endocrine System II	Ream	
11:00 – 11:50 am	Endocrine System III	Ream	
Day 26 Thursday, February 16			
Online Lecture	Hormones I & II	Cool	
9:00 – 10:50 am	Peer Instruction: Hormones I & II	Cool	
11:00 – 11:50 pm	Computer Lab: Endocrine System	Ream	
Week 8			
Time/Location	Topic	Faculty	Assignments/Readings
Day 27 Monday, February 20			
Online Lecture	Digestive System I	Ream	
10:00 – 10:50 am	Digestive System I	Ream	
11:00 – 11:50 am	Digestive System II	Ream	
Day 28 Tuesday, February 21			
10:00 – 10:50 am	Digestive System II	Ream	
Online Lecture	Digestive System III	Ream	
11:00 – 11:50 am	Computer Lab: Digestive System I	Ream	
Day 29 Wednesday, February 22			
10:00 – 10:50 am	Digestive Physiology I	Ritucci	
11:00 – 11:50 am	Computer Lab: Digestive System II	Ream	
Day 30 Thursday, February 23			
9:00 – 9:50 am	Computer Lab: Digestive System III	Ream	
10:00 – 10:50 am	Peer Instruction: Endocrine and Digestive System I & II	Ream	
11:00 – 11:50 am	Peer Instruction: Digestive Physiology II	Ritucci	
1:00 – 4:50 pm	Team-Based Learning: GALT & Lymph Nodes 1:00 – 2:50 pm: Groups 1 – 10 3:00 – 4:50 pm: Groups 11 - 19	Ream	
Week 9			
Time/Location	Topic	Faculty	Assignments/Readings
Day 31 Monday, February 27			
8:00 – 8:50 am	Respiratory System I	Ream	
9:00 – 9:50 am	Respiratory System II	Ream	
10:00 – 10:50 am	Respiratory Physiology I	Ritucci	
11:00 – 11:50 am	Computer Lab: Respiratory System	Ream	
Day 32 Tuesday, February 28			
8:00 – 8:50 am	Urinary System I	Ream	
9:00 – 9:50 am	Urinary System II	Ream	

10:00 – 10:50 am	Urinary System III	Ream	
11:00 – 11:50 am	Peer Instruction: Respiratory Physiology II	Ritucci	
Day 33 Wednesday, March 1			
8:00 – 8:50 am	Engaged Learning: Renal Physiology I	Wyatt	
9:00 – 9:50 am	Engaged Learning: Renal Physiology II	Wyatt	
10:00 – 10:50 am	Systems Acid-Base I	Putnam	
11:00 – 11:50 am	Computer Lab: Urinary system	Ream	
Day 34 Thursday, March 2			
9:00 – 9:50 am	Systems Acid-Base II	Putnam	
10:00 – 10:50 am	Systems Acid-Base III	Putnam	
11:00 – 11:50 am	Peer Instruction: Digestive System III, Respiratory and Urinary Systems	Ream	
1:00 – 4:50 pm	Team-Based Learning: Spleen and Thymus 1:00 – 2:50 pm: Groups 11 – 19 3:00 – 4:50 pm: Groups 1 - 10	Ream	
Week 10			
Time/Location	Topic	Faculty	Assignments/Readings
Day 35 Monday, March 6			
Online Lecture	Hormones III	Ream	
10:00 – 10:50 am	Peer Instruction: Systems Acid-Base Workshop	Putnam	
11:00 – 11:50 am	Female Reproductive System I	Ream	
Day 36 Tuesday, March 7			
Online Lecture	Female Reproductive System II	Ream	
10:00 – 10:50 am	Male Reproductive System I	Ream	
11:00 -11:50 am	Computer Lab: Female Reproductive System	Ream	
Day 37 Wednesday, March 8			
Online Lecture	Male Reproductive System II	Ream	
11:00 -11:50 am	Computer Lab: Male Reproductive System	Ream	
Day 38 Thursday, March 9			
Self Study	Meiosis and Fertilization	Ream	
10:00 – 10:50 am	Electron Micrographs	Ream	
11:00 -11:50 am	Peer Instruction: Female and Male Reproductive Systems	Ream	
1:00 – 4:50 pm	Team Based Learning: Acid Base Disorders 1:00 – 2:50 pm: Groups 1 – 10 3:00 – 4:50 pm: Groups 11 - 19	Onady	
Week 11			
Time/Location	Topic	Faculty	Assignments/Readings
Day 39 Thursday, March 16			
9:00 am 101 WH	CaTOS Final Exam		