

#	Date	Inst	Topic	Reading	Assignments/Tests
Bioengineering/Physiology 6000 Schedule, 2014					Wed, Mar 26, 2014
1	Mon, Jan 6, 2014	RM	Introduction to course	Notes	
2	Wed, Jan 8, 2014	RM	Everest video/Extreme Physiology		
3	Fri, Jan 10, 2014	RM	Animal physiology + Preparation for Lab	1:1-14/LB 1	
LAB 1	Fri, Jan 10, 2014		Dissection of the bovine heart/lungs		
4	Mon, Jan 13, 2014	RM	Intro to animal physiology II	1:7-14/LB 1	
LAB 1	Mon, Jan 13, 2014		Dissection of the bovine heart/lungs		
5	Wed, Jan 15, 2014	RM	Lab Review/Reports	Notes	
6	Fri, Jan 17, 2014	RM	Lab Reports	Notes	
	Mon, Jan 20, 2014		Martin Luther King Jr. Day Holiday		
7	Wed, Jan 22, 2014	RM	Ion transport and Resting potentials	5:132-153, 12:479-480/LB 3	
8	Fri, Jan 24, 2014	RM	Action potentials I	5:132-153, 12:477-479/LB 3	Lab Report #1
9	Mon, Jan 27, 2014	RM	Action potentials II	5:136-137/LB 4	
10	Wed, Jan 29, 2014	RM	Simulation of cell action potential	Notes	
11	Fri, Jan 31, 2014	RM	Pacemakers, Control of heart rate	12:479-480/LB 5	
12	Mon, Feb 3, 2014	RM	Pacemakers, Control of heart rate	12:479-480/LB 4	
13	Wed, Feb 5, 2014	RM	Review of first lab report	12:479-480/LB 6	
14	Fri, Feb 7, 2014	RM	Tissue Electrophysiology I	LB 5	Lab Report #1 2nd submit
LAB 2	Fri, Feb 7, 2014		Regulation of heart rate and contraction (frog)		
15	Mon, Feb 10, 2014	RM	Tissue Electrophysiology II	LB 5	
LAB 2	Mon, Feb 10, 2014		Regulation of heart rate and contraction (frog)		
16	Wed, Feb 12, 2014	RM	Tissue Electrophysiology III	LB 5	
17	Fri, Feb 14, 2014	RM	Arrhythmias	Notes	Cell Sim Homework
	Mon, Feb 17, 2014		President's Day Holiday		
18	Wed, Feb 19, 2014	RM	Electrocardiogram I	12:478-486/LB 7	
19	Fri, Feb 21, 2014		Electrocardiogram II	12:478-486/LB 7	
LAB 3	Fri, Feb 21, 2014		ECG Lab		Lab Report #2
20	Mon, Feb 24, 2014	RM	Lab Preparation	Notes	
LAB 3	Mon, Feb 24, 2014		ECG Lab		
21	Wed, Feb 26, 2014	RM	Electrocardiogram II	12:478-486/LB 7	
22	Fri, Feb 28, 2014	RM	Homework #1 Discussion	Notes online	
23	Mon, Mar 3, 2014	RM	EC Coupling I	12:478-486/LB 7	
24	Wed, Mar 5, 2014	RM	EC Coupling II	12:478-486/LB 7	
25	Fri, Mar 7, 2014	RM	Heart as a Pump	12:478-486/LB 7	
LAB 4	Fri, Mar 7, 2014		ECG Simulation lab		March 7, Lab 3 Report
	March 12-17		Spring Break		
25	Mon, Mar 17, 2014	AM	Midterm #1		Midterm #1
26	Wed, Mar 19, 2014	KA	Overview of CV System /Hemodynamics	12:473-477/LB 8/LB 9	
27	Fri, Mar 21, 2014	JT	Arterial System/	12:495-505/LB 10	
28	Mon, Mar 24, 2014	BB	Aterial/venous system	12:495-505/LB 10	Lab 4 Report
29	Wed, Mar 26, 2014	RM	Review of Midterm and Term projects	Notes	
30	Fri, Mar 28, 2014	RM	Capillaries and microcirculation	12:506-511/LB 11	
31	Mon, Mar 31, 2014	RM	Control of Circulation	12:512-523/LB 12	Lab 2 Resubmission
32	Wed, Apr 2, 2014	RM	Gases and Gas transport	13:525-539/LB 13	Lab 5 Protocol
33	Fri, Apr 4, 2014	RM	Mechanics of ventilation	13:545-555/LB 15	
LAB 5	Fri, Apr 4, 2014		Exercise and Blood Pressure		
	Mon, Apr 7, 2014		Midterm #2		Midterm #2
LAB 5	Mon, Apr 7, 2014		Exercise and Blood Pressure		
34	Wed, Apr 9, 2014	RM	Control of Respiration	13:555-568/LB 16	
35	Fri, Apr 11, 2014	RM	Osmotic balance	14:579-587/LB 17	
36	Mon, Apr 14, 2014	RM	Osmoregulation	14:588-593/LB 17	Term Project Proposal
37	Wed, Apr 16, 2014	RM	Renal transport	14:593-596/LB 17	
38	Fri, Apr 18, 2014	RM	The kidney: nephron structure and function	14:596-604/LB 18	
LAB 6	Fri, Apr 18, 2014		Pulmonary Lab		Lab 5 Report
39	Mon, Apr 21, 2014	RM	The kidney: proximal/distal tubule	13:604-608/LB 18	
LAB 6	Mon, Apr 21, 2014		Pulmonary Lab		
40	Wed, Apr 23, 2014	RM	The kidney: control of pH and water	13:608-614/LB 18	
	Thu, Apr 24, 2014		Final Exam: 8:00--10:00 AM		Final Exam
	Fri, May 2, 2014				Lab 6 Report
	Wed, May 7, 2014				Term Paper
	Tue, May 13, 2014		Grades Available		