

Date	Laboratory Topic	Activity Title	Page of activity
28-Jan	Introduction		
30-Jan	Exercise 1.3	Waterbath	26
		Pulse Rate	27
4-Feb	BioPac Lesson 14	Biofeedback	print from doctorhays.com
Lab Qz 1			
6-Feb	Exercise 1.1	The inverted image	2
		The metric system	3
		Cell structure and division	6
	Exercise 2.4	Catalase in liver	63
		Alkaline phosphatase in serum	63
		<i>use Professor's data</i>	
		Lactate dehydrogenase in serum	63
		<i>use Professor's data</i>	
11-Feb	<i>PhysioEx 1</i>	Simulating dialysis	2
	<i>Activity 1 summary</i>	Facilitated diffusion	4
	<i>due at beginning</i>	Osmosis	6
	<i>of class</i>	Filtration	9
		Active transport	11
13-Feb	Exercise 3.3	Tests for spinal reflex	99
Lab Qz 2		Cutaneous reflex	101
	Exercise 3.4	Mapping receptors	105
		Two point threshold	107
		Adaptation of temp receptors	108
		Referred pain	108
18-Feb	<i>PhysioEx 3</i>	The resting membrane potential	34
		The action potential: Threshold	39
	<i>Activity 1 summary</i>	Importance of voltage-gated Na ⁺ channels	40
	<i>due at beginning</i>	Refractory periods	42
	<i>of class</i>	Conduction velocity	45
		Chemical synaptic transmission	47
		Putting it all together	48
20-Feb	BioPac Lesson 11	Reaction time	print from doctorhays.com
Lab Qz 3			
25-Feb	Review for Exam 1: Bring all books, labs and notes		
27-Feb	EXAM 1		
3-Mar	<i>PhysioEx 4</i>	Metabolism and thyroid hormone	58
	<i>Activity 1 summary</i>	Plasma glucose, insulin and diabetes	62
	<i>due at beginning</i>	Hormone replacement therapy	65
	<i>of class</i>	Measuring cortisol and ACTH	67

For lab quizzes be sure to read introductions as well as activities assigned for the day.

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		Accommodation	118	
		Extrinsic muscles/nystagmus	120	
		Pupillary reflex	120	
		The blind spot	122	
		After-image	123	
		Color vision	123	
		Peripheral vision	handout	
Exercise 3.6	Conduction of sound waves	129		
	Use of audiometer	handout		
	Exercise 3.7	Vestibular apparatus	135	
10-Mar Lab Qz 5	BioPac Lesson 1 & 2	Electromyography	print from doctorhays.com	
12-Mar	<i>PhysioEx 2</i>	The muscle twitch and latent period	16	
		Effect of stimulus voltage	18	
		<i>Activity 1 summary</i>	Effect of stimulus frequency	20
		<i>due at beginning</i>	Tetanus in isolated muscle	22
		<i>of class</i>	Fatigue	23
		Length-tension relationship	24	
		Isotonic contractions	26	
17-Mar Lab Qz 6	Exercise 6.1	Hematocrit	206	
		Hemoglobin concentration	207	
		Exercise 6.2	Differential WBC with Wright's	216
		Exercise 6.3	Rh factor	223
			ABO Antigen system	225
19-Mar Lab Qz 7	BioPac Lesson 5	ECG	print from doctorhays.com	
24-Mar	<i>PhysioEx 6</i>	Investigating the refractory period	92	
		<i>Activity 1 summary</i>	Examining the effect of vagus nerve	93
		<i>due at beginning</i>	Effect of temperature	94
		<i>of class</i>	Effect of chemical modifiers	96
		Effects of various ions	97	
26-Mar	EXAM 2			
31-Mar	<i>PhysioEx 5</i>	Effect of vessel radius	74	
		Effect of blood viscosity	76	
		<i>Activity 1 summary</i>	Effect of blood vessel length	77
		<i>due at beginning</i>	Effect of blood pressure	78
		<i>of class</i>	Effect of radius on pump activity	80
		Effect of stroke volume on pump	82	
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7-Apr	Exercise 10.2	Digestion of carbohydrates	374
Lab Qz 8	<i>90 min incubation</i>	Digestion of fat	378
9-Apr	Exercise 10.2 <i>90 min incubation</i>	Digestion of protein	375
Diet analysis take home assignment due Apr 21			
Apr 14/16	SPRING BREAK		
21-Apr	Exercise 10.3	Body composition analysis	386
		Energy output	388
23-Apr	EXAM 3		
28-Apr	<i>PhysioEx 9</i>	Effect of diameter	130
		Effect of pressure	133
	<i>Activity 1 summary</i>	Combined effects	135
	<i>due at beginning</i>	Effect of solute gradient	137
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30-Apr	Exercise 9.1	Renal regulation	337
Lab Qz 9	Exercise 9.3	Examination of urine	351
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	<i>Activity 1 summary</i>	Do ALL activities	
	<i>due at beginning</i>		
	<i>of class</i>		
7-May	BioPac Lesson 12	Pulmonary Function	print from doctorhays.com
Lab Qz 10			
12-May	Exercise 8.4	Ability of buffers	328
		Effect of exercise on CO ₂	330
		Role of CO ₂ in ventilation	330
14-May	<i>PhysioEx 10</i>	Acid/Base balance	147
	<i>Activity 1 summary</i>	Do ALL activities	
	<i>due at beginning</i>		
	<i>of class</i>		
19-May	Review for Exam 4: bring all books, labs and lecture notes		
21-May	Exam 4		

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