

Date	Laboratory Topic	Activity Title	Page of activity
27-Jan	Introduction		
29-Jan	Exercise 1.3	Waterbath	26
		Pulse Rate	27
3-Feb	BioPac Lesson 14	Biofeedback	print from doctorhays.com
<b>Lab Qz 1</b>			
5-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>	
10-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
12-Feb	Exercise 3.3	Tests for spinal reflex	99
<b>Lab Qz 2</b>		Cutaneous reflex	101
	Exercise 3.4	Mapping receptors	105
		Two point threshold	107
		Adaptation of temp receptors	108
		Referred pain	108
17-Feb	<b>HOLIDAY</b>		
19-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 <sup>+</sup> 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
24-Feb	BioPac Lesson 11	Reaction time	print from doctorhays.com
<b>Lab Qz 3</b>			
26-Feb	EXAM 1		
2-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.*

Date	Laboratory Topic	Activity Title	Page of activity	
4-Mar <b>Lab Qz 4</b>	Exercise 3.5	Refraction	115	
		Accommodation	118	
		Extrinsic muscles/nystagmus	120	
		Pupillary reflex	120	
		Ophthalmoscope	121	
		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	
9-Mar <b>Lab Qz 5</b>	BioPac Lesson 1 & 2	Electromyography	print from doctorhays.com	
11-Mar	<i>PhysioEx 2</i>	The muscle twitch and latent period	16	
		Effect of stimulus voltage	18	
		<i>Activity 1 summary due at beginning of class</i>	Effect of stimulus frequency	20
		Tetanus in isolated muscle	22	
		Fatigue	23	
		Length-tension relationship	24	
		Isotonic contractions	26	
16-Mar <b>Lab Qz 6</b>	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
18-Mar <b>Lab Qz 7</b>	BioPac Lesson 5	ECG	print from doctorhays.com	
23-Mar	<i>PhysioEx 6</i>	Investigating the refractory period	92	
		<i>Activity 1 summary due at beginning of class</i>	Examining the effect of vagus nerve	93
		Effect of temperature	94	
		Effect of chemical modifiers	96	
		Effects of various ions	97	
25-Mar	EXAM 2			
30-Mar	<i>PhysioEx 5</i>	Effect of vessel radius	74	
		Effect of blood viscosity	76	
		<i>Activity 1 summary due at beginning of class</i>	Effect of blood vessel length	77
		Effect of blood pressure	78	
		Effect of radius on pump activity	80	
		Effect of stroke volume on pump	82	
		Compensation	84	
1-Apr	Exercise 7.6	Measuring blood pressure	281	
		Exercise 7.7	Cardiovascular system	287

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Date	Laboratory Topic	Activity Title	Page of activity
6-Apr	Exercise 10.2	Digestion of carbohydrates	374
<b>Lab Qz 8</b>	<i>90 min incubation</i>	Digestion of fat	378
8-Apr	Exercise 10.2	Digestion of protein	375
	<i>90 min incubation</i>	Diet analysis take home assignment	<b>due Apr 20</b>
Apr 13/15	<b>SPRING BREAK</b>		
20-Apr	Exercise 10.3	Body composition analysis	386
		Energy output	388
22-Apr	EXAM 3		
27-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
	<i>of class</i>	Reabsorption of glucose	138
		Effect of hormones	140
29-Apr	Exercise 9.1	Renal regulation	337
<b>Lab Qz 9</b>	Exercise 9.3	Examination of urine	351
4-May	<i>PhysioEx 7</i>	Respiratory Mechanics	103
	<i>Activity 1 summary</i>	Do ALL activities	
	<i>due at beginning</i>		
	<i>of class</i>		
6-May	BioPac Lesson 12	Pulmonary Function	print from doctorhays.com
<b>Lab Qz 10</b>			
11-May	Exercise 8.4	Ability of buffers	328
		Effect of exercise on CO <sub>2</sub>	330
		Role of CO <sub>2</sub> in ventilation	330
13-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>		
18-May	Review for Exam 4: bring all books, labs and lecture notes		
20-May	Exam 4		