

Animal Physiology

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Lectures: MWF 11:00-11:50, CNS 112

Laboratories: M 1:00 – 3:50, CNS 107 (J. Hardwick)
 T 1:00 – 3:50 , CNS 107 (L. Coniglio)

Lecture Schedule

<i>Date</i>	<i>Lecture Topic</i>	<i>Reading Assignment</i>
8/25	Introduction, homeostasis	<i>Ch 1, 2 – 19</i>
8/27	Resting Membrane Potential	<i>Ch 6, 154 – 165</i>
8/30	Graded Potentials	
9/1	Action Potentials	<i>Ch 6, 165 – 174</i>
9/3	Synaptic Potentials	
9/6	NO CLASSES – Labor Day	<i>Ch 6, 175 – 181</i>
9/8	Quiz #1 ; Neuromuscular Junction	<i>Ch 9, 280 – 284</i>
9/10	Muscle Anatomy & Histology	<i>Ch 9, 268 – 280</i>
9/13	Cross Bridge Cycle	
9/15	Muscle Mechanics	<i>Ch 9, 284 – 288</i>
9/17	Muscle Control, Smooth Muscle	<i>Ch 9, 288 – 295; 302 – 308</i>
9/20	Autonomic Nervous System	<i>Ch 6, 195 – 199</i>
9/22	EXAM #1	
9/24	Properties of Air; Respiration	<i>Ch 13, 468 – 486</i>
9/27	Mammalian Respiration – Lab Report #1 due	
9/29	Respiration in Birds and Insects	<i>Randall 553 – 554; 557-558</i>
10/1	Respiration in Fish	<i>Randall 559 – 562; Sci Am #1</i>
10/4	Respiratory Pigments	<i>Ch 13, 489 – 496</i>
10/6	Quiz #2 ; Circulatory Systems	<i>Ch 12, 376 – 384</i>
10/8	Cardiac Cycle	<i>Ch 12, 384 – 399</i>
10/11	Blood Vessels	<i>Ch 12, 401 – 419</i>
10/13	Regulation of Heart Rate, BP, and Cardiac Output	<i>Ch 12, 518 – 526; Sci Am #2</i>
10/15	NO CLASSES – Fall break	
10/18	Digestive systems	<i>Randall 588 - 593</i>
10/20	EXAM #2	
10/22	Chemical Breakdown of Food	<i>Ch 14, 514 – 518</i>
10/25	Hormonal Control of Digestion – Lab Report #2 due	<i>Ch 14, 518 – 526; Sci Am #3</i>
10/27	Ruminants and Rodent digestion	<i>Ch 14, 529 – 544</i>
10/29	Metabolism	<i>Randall 621 - 624</i>
11/1	Quiz #3 ; Osmoregulation	<i>Ch 18, 696 – 703</i>
11/3	Renal Anatomy	<i>Ch 18, 703 – 720</i>
11/5	Regulation of Urine Composition	<i>Ch 15, 564 – 572</i>
11/8	Hormonal Control of Fluid and Ion Balance	<i>Ch 15, 572 – 576</i>
11/10	Renal control of BP; Insect fluid balance	<i>Ch 15, 576 – 595</i>
11/12	Temperature Regulation I	
11/15	Temperature Regulation II	<i>Randall 667 – 669; 675 – 679</i>
11/17	EXAM #3	
11/19	Endocrine Systems I	<i>Ch 16, 632 – 639; Randall 704 – 722</i>
11/22-26	NO CLASSES – Thanksgiving Break	
11/29	Endocrine Systems II	<i>Sci Am #4</i>
12/1	Regulation of Blood Glucose	<i>Ch 11, 332 – 345; 346 – 362</i>
12/3	Male Reproduction	<i>Ch 16, 661 – 618</i>
12/6	Quiz #4 ; Female Reproduction	<i>Ch 17, 645 – 657</i>
12/8	Female Reproduction cont; Pregnancy	<i>Ch 19, 658 – 671; Sci Am #5</i>
12/10	Physiological Changes with Pregnancy – Final Lab Report Due	<i>Ch 19, 671 – 678</i>
12/13	FINAL ; 1:30 – 4pm (Monday)	