

BIOLOGICAL SCIENCES 1101 & 1103 SCHEDULE

28 August – 5 December 2009

<http://biog-1101-1104.bio.cornell.edu>

Lectures	Lectures are held in Uris Hall Auditorium at 9:05 and 10:10 AM on Mondays, Wednesdays and Fridays. Text is Campbell et al., 2008 <i>"Biology"</i> [8th edition]; text assignments are given by chapter number, prefaced by a T.					28 August
	Lab only students should attend the lecture with gray shading. Lecture 24 (23 October) should be attended by ALL BioG 1101-1103 students.					1. Nothing in Biology Makes Sense Except in the Light of Evolution T: 1 (1-27)
Laboratory	Laboratories are held in Comstock Hall. The laboratory text is <i>Investigative Biology</i> by Chen and Hester; reading assignments in the lab text are given by page number, prefaced by an L.					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
Lectures Week 1	31 August	1 September	2 September	3 September	4 September	
	2. Unity and Diversity of Life T: 22 (452-467); 26 (551-553)	Success in Biology 7:00-8:30 PM Uris Hall Auditorium	3. From So Simple a Beginning: Chemistry and the Origin of Life T: 4 (58-67); 25 (507-512); Review: Ch. 2 & 3		4. Macromolecules I: Energy (sugars & fats) T: 5 (68-77)	
Laboratory Week 1	MICROSCOPY, CELLS AND TISSUES L: 1 (1-10, 21-22) and T: 6 (94-97)					
Lectures Week 2	7 September	8 September	9 September	10 September	11 September	
	5. Scientific Process/Orientation Behavior Dr. K-C. Chen		6. Macromolecules II: Information (proteins & nucleic acids) T: 5 (77-91); 16 (308-310)		7. Membrane Structure and Function T: 7 (125-141)	
Laboratory Week 2	DUE: Microscopy Worksheet (p. A25-A26)		SCIENTIFIC PROCESS/ORIENTATION BEHAVIOR 1 L: 2 (27-34), 3 (35-48) and T: 1 (18-24)			
Lectures Week 3	14 September	15 September	16 September	17 September	18 September	
	8. Composition of Cells T: 6 (94-124)		9. Cell Evolution T: 26 (551-553); 27 (556-560, 564-574)		10. Cell Division: T: 12 (228-245)	
Laboratory Week 3	DUE: Descriptive Stats Worksheet (p. 53-54); Primary Literature (p. A25-A26)		SCIENTIFIC PROCESS/ORIENTATION BEHAVIOR II L: Appendix 2 (A11-A24); Appendix 3 (A29-A37) Intro and Descriptive Statistics in Stat-Tutor			
Lectures Week 4	21 September	22 September	23 September	24 September	25 September	
	11. Osmosis Dr. K-C. Chen		12. Catch up and Review	EXAM 1 7:30 PM Rooms: TBA	13. Reactions and Enzymes T: 8 (142-161)	
					Exam Comment Session 2:15-3:30 PM Corson-Mudd Hall A106 Morison Rm.	
Laboratory Week 4	DUE: Scientific Writing (A27-28)		OSMOSIS AND MEMBRANE PERMEABILITY L: 5 (73-80); Appendix 1 (A7-A10) and T: 7 (125-129, 131-135), 36 (767-771)			

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Lectures Week 5	28 September 14. Bioenergetics I Glycolysis T: 9 (162-169, 177-179)	29 September EXAM 1 MAKEUP 7:30 PM Warren 145	30 September 15. Bioenergetics II Citric acid cycle, oxidative phosphorylation T: 9 (170-177, 180-184)	1 October	2 October 16. Bioenergetics III Photosynthesis T: 10 (185-205)
Laboratory Week 5	Lab Midterm 1 DUE: Osmosis/Stat Worksheet (p. 91-96)		POSTER EVALUATION & STATISTICS L: Appendix 3 (A37-A46) Stats Testing I, II and Wilcoxon Stat-Tutor		

Lectures Week 6	5 October 17. Biology of Protista Dr. L. Hester	6 October	7 October 18. Multicellularity: Cell Diversification T: 25 (517-518)	8 October	9 October 19. Multicellularity: Cell Signaling T: 11 (206-222; 225-227)
Laboratory Week 6	DUE: 1 st Poster Submission		PROTISTA L: 7 (119-137) and T: 26 (536-548); 28 (575-579)		

Lectures Week 7	12 October FALL BREAK	13 October FALL BREAK	14 October 20. Multicellularity: Immune System T: 43 (930-953)	15 October	16 October 21. Plant Growth & Development Dr. R. Turgeon T: 35 (738-763)
Laboratory Week 7	NO LABORATORY THIS WEEK				

Lectures Week 8	19 October 22. Origins of Algal Diversity Dr. L. Hester	20 October	21 October 23. Nutrient Procurement T: 37 (789-800); 41 (875-879, 887-890)	22 October	23 October 24. Transport Systems in Plants Dr. R. Turgeon T: 36 (764-784) Lab students must also attend
Laboratory Week 8	DUE: Phylogeny Worksheet		PHOTOSYNTHETIC PIGMENT DIVERSITY L: 8 (141-151) and T: 10 (190-192); 28 (Fig. 28.2, 586, 590-591)		

Lectures Week 9	26 October 25. Circulation and Gas Exchange T: 42 (898-929)	27 October	28 October 26. Osmo-regulation and Excretion T: 44 (954-974)	29 October	30 October 27. Hormones and Chemical Control T: 45 (975-996)
Laboratory Week 9	ANGIOSPERM STRUCTURE & FUNCTION L: 6 (97-101) and T: 35 (738-745, 747-751); 36 (764-779)				

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Lectures Week 10	2 November 28. Animal Organ Systems Dr. K-C. Chen Exam Review Session 7:30-9:00 PM Corson-Mudd Hall A106 Morison Rm.	3 November EXAM 2 7:30 PM Rooms: TBA	4 November 29. Thermo-regulation T: 40 (860-874) Exam Comment Session 2:15-3:30 PM Corson-Mudd Hall A106 Morison Rm.	5 November	6 November 30. Nobel Prize 2009
Laboratory Week 10	DUE: Final Poster plus Appendix		FROG ANATOMY & HEART PHYSIOLOGY L: 9 (159-167, 175-177) and T: 40 (852-855, 860-867); 41 (899-903)		
Lectures Week 11	9 November 31. How Neurons Work T: 48 (1047-1056)	10 November EXAM 2 MAKEUP 7:30 PM WRN 145	11 November 32. Synapses T: 48 (1056-1063)	12 November	13 November 33. Sensory Systems T: 50 (1087-1105)
Laboratory Week 11	Lab Midterm 2 DUE: Frog Anatomy/Physiology Worksheet (p. 179-180)		POSTER SESSION L: Appendix 3 (A46-A48) Spearman Rank Stat-Tutor		
Lectures Week 12	16 November 34. Enzymes Dr. L. Hester	17 November	18 November 35. Movement and Its Control T: 49 (1066); 50 (1105-1119)	19 November	20 November 36. Vertebrate Brain T: 49 (1067-1079)
Laboratory Week 12	DUE: Abstract		ENZYMES: TESTING A MODEL L: 4 (55-61, 67-70); Appendix 1 (A1-6) and T: 8 (151-156)		
Lectures Week 13	23 November 37. Learning and Memory T: 49 (1078-1080); 51 (1125-1129)	24 November	25 November 38. Orientation and Navigation	26 November <i>THANKSGIVING BREAK</i>	27 November <i>THANKSGIVING BREAK</i>
Laboratory Week 13	NO LABS THIS WEEK				
Lectures Week 14	30 November 39. Animal Communication Dr. M. Sarvary T: 51 (1123-1125)	1 December	2 December 40. Cooperation and Conflict T: 51 (1137-1145)	3 December	4 December 41. Biology in Winter
Laboratory Week 14	LABORATORY PRACTICAL EXAM THIS WEEK				
LECTURE FINAL EXAMINATION: Friday, 11 December, 9:00-11:30 AM, (Rooms TBA) FINAL EXAM MAKEUP: Monday, 14 December, 9:00-11:30 AM, (Rooms TBA) EXAM COMMENT SESSION: Monday, 14 December, 2:00-3:30 PM, Morison Rm., Corson-Mudd Hall					