

Biology 213 Readings and Topics - Spring 2015

LECTURES				LABS
Week/Date	Monday	Wednesday	Friday	
Week 1 03/30- 04/03	Topic 1: Cell Division and the Genome <i>Ch. 12.1-2: 232-241</i>	Topic 2 : Ploidy, Mitosis and Meiosis <i>Ch. 13.1-3: 252-262</i>	*Topic 3: Meiosis and Mendelism: Mechanism and Probability <i>Ch. 13.4 -14.1 : 263-274</i>	<i>Understanding Mitosis and Meiosis</i>
Week 2 04/06 – 04/10	*Topic 4: Probability and the Inheritance of Multiple Genes <i>Ch. 14.2: 274-276</i>	Topic 4: What Mendel Didn't Explain <i>Ch. 14.3-4: 276-285</i>	*Topic 5: Chromosomes and Sex Determination <i>Ch. 15.1-2:292-298</i>	<i>Genetics</i>
Week 3 04/13 – 04/17	Topic 5: Linkage Maps and Genetic Balance <i>Ch. 15.3-4:298-307</i>	*Topic 6: DNA Structure and Function <i>Ch. 16.1:312-318</i>	*Topic 7:DNA Replication and Transcription <i>Ch. 16.2 :318-324,326-327</i> <i>Ch. 17.1-3 :336-337,340-344</i>	<i>PTC: It's a Matter of Taste (Part 1)</i>
Week 4 04/20 – 04/24	In Class Review Midterm I 8 pm	*Topic 8: Translation and Mutation <i>Ch. 17.4-5: 345-351,355-357; Figs 17.4,17.5</i>	*Topic 9: Mutation and Gene Evolution <i>Ch. 21.4-5:444-53</i>	<i>PTC: It's a Matter of Taste (Part 2)</i>
Week 5 04/27- 05/01	*Topic 10: Darwin's Case for Evolution <i>Ch. 22:463-479</i>	*Topic 11: Forces that drive evolution change allele frequencies <i>Ch. 23.1-4:480-499;</i>		<i>Are Humans Evolving by Natural Selection?</i>
Week 6 05/04- 05/09	*Topic 12: Speciation and the maintenance of species <i>Chapter 24.1-4:500-518;</i> <i>Ch. 25.4: 536-538</i> <i>Ch 25.6: 541-545</i>		*Topic 13: Intro to Ecology <i>Chapter 52.1-2: 1158-1170</i>	<i>Investigating the Behaviors of Invasive Crayfish</i>
Week 7 05/11 – 05/15	In Class Review Midterm II 8 pm	Topic 13: Intro to Ecology (cont) <i>Chapter 52.4:1172—1183 (skip Fig. 52.14)</i>	*Topic 14: Behavioral Ecology <i>Chapter 51.1-2 :1133-1143</i>	<i>Impacts of False Brome Removal on Oak Creek I</i>
Week 8 05/18– 05/22	Topic 14: Behavioral Ecology (Cont.) <i>Chapter 51.3-4:1143-1156</i>	*Topic 15: Population ecology <i>Chapter 53.1-3:1184-1207</i>		<i>Impacts of False Brome Removal on Oak Creek II</i>
Week 9 05/25- 05/29	Memorial Day No Class	*Topic 16: Community ecology <i>Chapter 54.1-4 :1208-1228; 1230-1231</i>		<i>Home Range Size and Endangered Species Conservation</i>
Week 10 06/01 – 06/05	*Topic 17: Ecosystems <i>Chapter 55.1-4 :1232-1254</i>	*Topic 18: Global Ecology <i>Chapter 56.1-4: 1254-1279</i>		<i>Climate Change and Migration</i>

FINAL EXAM: Tuesday, June 9th at 7:30 am

***Mastering Biology Assignments at 8 am on the day we begin each topic.**