AP Biology: Syllabus

Note: Reading should be done before class! This syllabus is subject to changes. We will upload updated versions as the year goes on.

Class #	Class Topic: List of Concepts
Date	Readings/Assignments
Class #1 9/16/12	Biochemistry I: Class Introduction, Review of Chemistry, Water, Organic Chemistry, Biological Macromolecules, Origin of Life/Biological Molecules, Enzymes, Chemical Reactions <i>Chapter 1-5</i> , <i>8</i> , 26.1
Class #2 9/23/12	Cell Biology I: Prokaryotic and Eukaryotic Cells, Bacteria, Viruses, Subcellular Organization, Organelles, Membranes and Cell Walls <i>Chapter 6-7, Chapter 18.1-18.2</i>
Class #3 9/30/12	Cell Biology II: Cell Communication, Signal Molecules, Receptors, Metabolism, Coupled Reactions <i>Chapter 11</i>
Class #4 10/7/12	Molecular Biology I: RNA and DNA Structure and Function, Eukaryotic Chromosomes, DNA Replication <i>Chapter 16.1, Chapter 13.1, Chapter 18.3-18.4, Chapter 19</i>
Class #5 10/14/12	Molecular Biology II: Transcription, Translation, Gene Regulation, Biotechnology Chapter 16.2, Chapter 17, Chapter 20, Chapter 21.1-21.2
Class #6 10/21/12 [Spicy Day]	CATCH-UP DAY AND REVIEW
Class #7 10/28/12	Cell Biology III: Fermentation, Cellular Respiration, Photosynthesis <i>Chapter 9, 10</i>
Class #8 11/4/12	Cell Biology IV: Cell Cycle, Checkpoint Regulation, Mitosis, Meiosis, Gametogenesis <i>Chapter 12, 13</i>
Class #9 11/11/12	Genetics I: Intro to Genetics, Genetics of Inheritance Chapter 14, 15
Class #10 12/2/12	Genetics II: Mutation, Mechanisms of Evolution, Evolutionary Patterns, Population Genetics <i>Chapter 17.7, Chapter 22, 23</i>
Class #11 12/9/12	LABS AND CATCH-UP DAY
Class #12 12/16/12	REVIEW
1/6/13	PRACTICE AP EXAM #1

Class #13 1/13/13	Organisms I: Survey of Life Diversity, Protists, Fungi, Plants, Animals, Phylogeny
	Phylogeny Chapter 25 and 26
Class #14 1/20/13	Organisms II: Plant Development and Structure, Vascular Transport, Plant
	Nutrition, Plant Reproduction, Behavior
	Chapter 35-39
Class #15	Organisms III: Animal Development, Physiology, Cell Fate and Induction
1/27/13	<i>Chapter 32, Chapter 21.3, Chapter 47, Chapter 40</i> Organisms IV: Digestive System, Heart and Circulatory System,
Class #16 2/3/13	Respiratory System
	Chapter 41-42
Class #17 2/10/13	Organisms V: Excretory System and Osmoregulation, Endocrine System,
	Homeostasis, Immune System
	Chapter 43-45 Organisms VI: Brain and Nervous System, Electrical Signaling, Muscular
Class #18 2/17/13	System and Contraction
	Chapter 48-49 [Ch. 46 for homework]
Class #19	
2/19/12	CATCH-UP DAY AND REVIEW
[Spicy Day]	Feelers I. Evelution and Evelutioners Deletionships. Latra to Eacle sy
Class #20 3/3/13	Ecology I: Evolution and Evolutionary Relationships, Intro to Ecology, Behavioral Ecology
	Chapter 24, Chapter 50-51
Class #21	Ecology II: Populations and Communities
3/24/13	Chapter 52-53
Class #22	Ecology III: Ecosystems, Biomes, Conservation Biology
4/7/13	Chapter 54-55
4/14/13	PRACTICE AP EXAM #2
Class #23	LABS AND CATCH-UP DAY
4/21/13	
Class #24 4/28/13	REVIEW
4/28/15 Class #25	
5/5/13	REVIEW
Class #26	REVIEW
5/12/13	
5/13/13	AP BIOLOGY EXAM [8 AM]