

## Schedule of Lecture Topics

Week	Date	Topic	Relevant Reading
1	Jan. 23	Lecture 1: Scientific method, meaning of life, water, macromolecules	Chapters 1, 2, 3
2	Jan. 30	Lecture 2: Cell structure, membranes, molecular movement	Chapters 4, 5
3	Feb. 6	Lecture 3: Energy, enzymes, cellular respiration, photosynthesis <b>Video 1 - Planet Earth: Pole to Pole</b>	Chapters 5, 6, 7
4	Feb. 13	<b>Test 1; Video 1 response due</b> Lecture 4: Cell division: mitosis & meiosis	Chapter 8
5	Feb. 20	<b>No Class</b> – Presidents day holiday	
6	Feb. 27	Lecture 5: Mendelian genetics, patterns of Inheritance	Chapters 8, 9
7	Mar. 5	Lecture 6: DNA structure, replication, transcription, translation, gene expression <b>Video 2– Nova: Ghost in Your Genes</b>	Chapters 10, 11
8	Mar. 12	<b>Test 2; Video 2 response due</b> Lecture 7: Evolution, natural selection	Chapters 13, 15
9	Mar. 19	Lecture 8: Adaptation, sexual selection, speciation <b>Video 3 – Triumph of Life: The Mating Game</b>	Chapters 13, 14
	Mar. 26	<b>No class – Spring Break</b>	
10	Apr. 2	<b>Test 3; Video 3 response due</b> Lecture 9: Classification, domains, protists, fungi, plants	Chapters 16, 17, 31
11	Apr. 9	Lecture 10: Diversity of animals; <b>Research paper due</b>	Chapters 18, 19
12	Apr. 16	<b>Test 4</b> Lecture 11: Populations, communities, ecosystems	Chapters 36, 37
13	Apr. 23	Lecture 12: Biosphere, biodiversity & extinction <b>Video 4 – The Loneliest Animals</b>	Chapters 34, 38, 15
14	Apr. 30	<b>Test 5; Video 4 response due</b> Lecture 13: Structure, homeostasis, physical fitness	Chapters 20, 22, 23
15	May 7	Lecture 14: Nervous system, Immune system	Chapter 28, 24
16	May 14	<b>Final Exam 6:00 – 8:00</b>	

## Schedule of Labs, Quizzes and Plus Hours<sup>#</sup>

Lab	Date	Lab Topic
1	Jan. 24, 25, 26	Biological Observations and Perspectives
2	Jan. 31, Feb. 1, 2	Microscopes and Cells
3	Feb. 7, 8, 9	Movement of Molecules: Diffusion & Osmosis; <b>quiz 1; plus hour 1 due</b>
4	Feb. 14, 15, 16	Cellular Respiration and Enzymes; <b>quiz 2</b>
14	Feb. 21, 22, 23	Digestion and Nutrition – <b>complete on your own outside of class, due in class next week</b>
5	Feb. 28, 29, Mar. 1	Photosynthesis; <b>quiz 3</b>
6	Mar. 6, 7, 8	Genetics and Heredity; <b>quiz 4; plus hour 2 due</b>
7	Mar. 13, 14, 15	Biotechnology I: Transformation; <b>quiz 5</b>
8	Mar. 20, 21, 22	Biotechnology II: DNA Fingerprinting; <b>quiz 6</b>
	Mar. 27, 28, 29	<b>No school – Spring Break</b>
9	Apr. 3, 4, 5	Evolution & Natural Selection; <b>quiz 7; plus hour 3 due</b>
10	Apr. 10, 11, 12	Plant Biology; <b>quiz 8</b>
11	*TBD	<b>Field Trip:</b> Santa Barbara Botanic Garden; <b>plus hour 4 due</b>
12	*TBD	<b>Field Trip:</b> Santa Barbara Museum of Natural History
13	May 1, 2, 3	Physical Fitness; <b>quiz 9; plus hour 5 due</b>
15	May 8, 9, 10	Nervous System and Senses; <b>quiz 10</b>

# This schedule is tentative and subject to change.

\*Because the Botanic Gardens and Museum of Natural History are closed at night, these field trips will take place on a Saturday and/or Sunday. Actual dates and times will be scheduled during the first few weeks of class.