

BIOLOGY

FALL				
	Reading Schedule	Lecture and Discussion Topics	Supplemental Assignments	At Home Labs
September 2	ON SITE	Course Description / Scientific Method		
3	1-9	Characteristics of Life		
8	10-16	The Scientific Method		
10	16-30	Biological Classification		
11-14	Module 1 Review and Test Window			
15	38-44	Bacteria Structure and Energy Acquisition		
17	44-49	Bacterial Reproduction and Genetic Combination		
22	49-51	Transformation and Transduction, Endospores and Colonies		
24	56-60	Bacterial Classification, Growth and Infection		
25-30	Module 2 Review and Test Window			
October 1	67-73	Subkingdom Protista / Phylum Sarcodina		
6	74-78	Phylum Mastigophora and Symbiosis		
8	78-82	Phylums Ciliophora and Sporozoa		
13	84-86	Subkingdom Algae / Phylums Chlorophyta and Chrysophyta		
15	88-92	Phylums Pyrrophyta, Phaeophyta and Rhodophyta		
20	ON SITE	Microscope Viewing of Microorganisms		
21-26	Module 3 Review and Test Window			
27	98-101	Kingdom Fungi and General Characteristics		
29	101-102	Fungi Reproduction and Classification		
27	103-107	Phylum Basidiomycota		
November 3	109-113	Phylums Ascomycota and Zygomycota		
5	115-116	Phylums Chytridiomycota and Deuteromycota		
10	117-120	Phylum Myxomycota and Symbiosis in Kingdom Fungi		
12-16	Module 4 Review and Test Window			
17	126-129	Bohr Models of Atoms and Elements		
19	130-140	Molecules, Physical and Chemical Changes		
23-27	Thanksgiving Break - No Classes			
December 1	140-141	Photosynthesis		
3	142-146	Organic Chemistry / Carbohydrates		
8	146-149	Acids, Bases and Lipids		
10	149-152	Proteins and Enzymes		
15	154-155	DNA		
17-21	Module 5 Review and Test Window			
Fall Presentation Days	23			
Fall Q and A Days	18			
On Site Lab Days	2			
SPRING				
January 5	ON SITE	Organic Chemistry Experiments		
7	161-163	Cellular Functions		
12	164-169	Cell Structure I		
14	170-175	Cell Structure II		
19	176-181	Cell Membrane and Transport		
21	182-185	Cellular Respiration I		
26	186-189	Cellular Respiration II		
28-February 2	Module 6 Review and Test Window			

4	195-197	Genes, Chromosomes, and DNA		
9	198-200	Transcription		
11	201-205	Translation		
16	205-211	Mitosis		
18	211-213	Diploid and Haploid Cells		
23	213-217	Meiosis		
25	218-222	Viruses		
27-March 3	Module 7 Review and Test Window			
4	ON SITE	Dissections I		
9	227-233	Mendel and His Pea Plants		
11	233-238	Punnett Squares		
15-19	Spring Break - No Classes			
23	238-241	Pedigrees		
25	242-246	Dihybrid Crosses		
30	247-252	Sex-Linked Traits, Incomplete and Codominance		
April 1	252-255	Genetic Disorders		
2-7	Module 8 Review and Test Window			
8	261-266	Charles Darwin and His Theory		
13	267-269	Microevolution vs. Macroevolution		
15	270-280	The Geologic Column and The Fossil Record		
20	280-285	Cambrian Explosion and Structural Homology		
22	285-289	Molecular Biology		
27	289-294	Macroevolution Today		
29-May 3	Module 9 Review and Test Window			
4	311-313	The Water Cycle		
6	314-315	The Oxygen Cycle		
11	316-322	The Carbon Cycle		
13	ON SITE	Dissections II		
Spring Presentation Days	27			
Spring Q and A Days	21			
On Site Lab Days	3			