

Date	Critical Question	Lecture/Lab/Quiz Topic	Resources	Readings
Jan. 12	Why study the history of the Earth?	Introduction	Intro.pdf	Ch. pp. 3e (2e)
Jan. 14	What features describe today's world?	Planet Earth Today	Earth.pdf	1; 4
Jan. 19	How and why do rocks differ?	Mineral and Rock Types	Minerals.pdf	2, 35-46 (36-47)
Jan. 20, 21	<i>What constitutes a rock?</i>	<i>Minerals</i>	<i>MineralsLab.pdf</i>	2, 25-35 (27-36)
Jan. 21	What records are preserved in rocks?	Rocks as Historical Records	Rocks.pdf	5, 100-123 (106-126)
Jan. 26	What can be learnt from rock outcrops?	Rocks in Context	RockRec.pdf	
Jan. 27, 28	<i>How can rocks best be distinguished?</i>	<i>Rocks</i>	<i>RocksLab.pdf</i>	2, 35-46 (36-47)
Jan. 28	How are rocks formed?	Rock Formation	RockContext.pdf	1, 5-9 (6-9)
Feb. 2	What processes control rock types?	Sedimentary Environments	SedEnvA.pdf	5
Feb. 3, 4	<i>How does water influence rock formation?</i>	<i>Sedimentary Rocks</i>	<i>SedRocksLab.pdf</i>	
Feb. 4	What do we know about past life?	Evolution of Life	SedEnvB.pdf	3; 7
Feb. 9	What can be learnt from fossils?	Fossils	Fossils.pdf	7
Feb. 10, 11	<i>What remnants of life survive in rocks?</i>	<i>Fossils</i>	<i>SedEnvLab.pdf</i>	7; 11-19 (parts)
Feb. 11	What will be examined in the test?		Review1.pdf	
Feb. 16				
Feb. 17, 18	<i>How do rocks reflect environments?</i>	<i>Sedimentary Environments</i>	<i>FossilsLab.pdf</i>	5
Feb. 18	How can the age of a rock be determined?	Age Dating	Strat.pdf	6, 125-142 (129-145)
Feb. 23	Why do rocks differ in age?	Stratigraphic Principles	Strat.pdf	6, 142-149 (145-151)
Feb. 24, 25	<i>How and why are rocks layered?</i>	<i>Stratigraphy</i>	<i>StratLab.pdf</i>	
Feb. 25	How was the Earth different in the past?	Ancient Environments	AncEnv.pdf	10; 12, 269-276 (278-286)
Feb. 25 - Mar. 2		Quiz #1: Rocks and Fossils		
Mar. 2	How was the Earth formed?	Earth's Origin	EarlyEarth.pdf	11, 239-252 (247-255)
Mar. 3, 4	<i>What can be learnt from layered rocks?</i>	<i>Stratigraphic Sections</i>	<i>StratSectLab.pdf</i>	
Mar. 4	What was the Earth like when newly formed?	Early Earth	Prebiotic.pdf	11, 256-261 (255-271)
Mar. 9	Is the Earth a typical planet?	Earth Characteristics	EarthChar.pdf	10, 219-232 (231-238)
Mar. 10, 11	<i>How is the Earth's surface described?</i>	<i>Topographic Maps</i>	<i>Field Trip.pdf</i>	
Mar. 11	What systems control the Earth's evolution?	Evolution of the Earth System	Proterozoic.pdf	10, 219-232 (231-238)
Mar. 13-21	Spring Break			
Mar. 23	How and why are some rocks deformed?	Geological Structures	StructGeolA.pdf	9, 202-208 (205-207)
Mar. 24, 25	<i>What rocks and stratigraphic features occur locally?</i>	<i>Field Trip</i>	<i>TopoMapLab.pdf</i>	
Mar. 25	What will be examined in the test?		Review2.pdf	
Mar. 30				
Mar. 31/Apr. 1	<i>How are geological structures visualized?</i>	<i>Structures</i>	<i>GeolStructMapLab.pdf</i>	
Apr. 1	How is evidence of rock relationships presented?	Geological Maps	StructGeolB.pdf	9, 196-213 (200-218)
Apr. 6	How are mountains formed?	Earthquakes and Volcanoes	Tectonics.pdf	
Apr. 7, 8	<i>How is a Geological Map Compiled?</i>	<i>Simulated Geological Mapping</i>	<i>GeolLabMaps.pdf</i>	
Apr. 8	Why do Atlantic coastlines match?	Continental Margins	TectonicsA.pdf	8, 175-193 (177-185)
Apr. 13	Why study geology at sea?	Marine Geology	TectonicsB.pdf	18-1; 19, 440-443
Apr. 14, 15	<i>How is Earth history reflected in geological maps?</i>	<i>Simulated Earth History</i>	<i>GeolHistoryLab.pdf</i>	
Apr. 15	How and why do continents move?	Plate Tectonics	TectonicsB.pdf	1, 14-18 (15-18); 8
Apr. 15-20		Quiz #2: The Changing Earth		461-467 (482-485)
Apr. 20	How has Earth evolved over geological time?	Earth Evolution	EvolChanges.pdf	12-19 (parts)
Apr. 21, 22	<i>No Lab Classes</i>	<i>No Lab Classes</i>		
Apr. 22	What controls development of life on Earth?	Evolutionary Processes	EvolChanges.pdf	7
Apr. 27	What events are critical in Earth history?	Reflections on Earth History	EvolChanges.pdf	12-2; 17-1
Apr. 29	What knowledge does the final exam assess?	Final Review	FinalRev.pdf	
May. 4		Final Exam (12:30-2:30 p.m.): Dynamic Earth and Integrated Earth History		