

EART 2: **Earth Catastrophes**

Syllabus Winter Quarter, 2020

	<u>Date</u>	<u>Lecture Topic</u>	<u>Reading/Connect HW</u>
Mon.	Jan. 6	Introduction/Syllabus	Abbott: Prologue, Ch. 1
Part I. Cosmology and Global Catastrophes			
Wed.	Jan. 8	Big Bang, Red Shift,	
Fri.	Jan. 10	Nucleosynthesis, Stars, Supernovae	
Mon.	Jan. 13	Accretion of Earth, Moon Formation	Abbott Ch. 17
Wed.	Jan. 15	Origin of Life: The Archaen	
Fri.	Jan. 17	Evolution of Life: Proterozoic	
Mon.	Jan. 20	MLK Day no class	
Wed.	Jan. 22	Geologic Time/Mass Extinctions	
Fri.	Jan. 24	Mass Extinctions, K-T	Abbott: Ch. 18.
Mon.	Jan. 27	Impacts and Environmental Crises	Abbott: Epilogue
Wed.	Jan. 29	Video K-T Impact – (T. Lay to DoD)	
Fri.	Jan. 31	QUIZ # 1 on PART I (in class)	CONNECT HW DUE
Part II. Internal Earth Processes and Catastrophes			
Mon.	Feb. 3	Earth's Dynamic Systems, Plate Tectonics	Abbott Ch. 2
Wed.	Feb. 5	Earthquakes, Faults Seismic Waves	Abbott Ch. 3
Fri.	Feb. 7	Earthquake Recordings	Abbott Ch. 4
Mon.	Feb. 10	Earthquake Prediction and Mitigation	Abbott Ch. 5
Wed.	Feb. 12	Video: <i>The Day the Earth Shook</i>	
Fri.	Feb. 14	Volcanoes, Melting and Arcs	Abbott Ch. 6
Mon.	Feb. 17	No Class – Presidents's Day	
Wed.	Feb. 19	Volcanoes, Rifts and Hotspots	Abbott Ch. 7
Fri.	Feb. 21	Volcanoes, Products, and Prediction	Abbott Ch. 8
Mon.	Feb. 24	QUIZ # 2 on Part II (in class)	CONNECT HW DUE
Part III. External Earth Processes and Catastrophes			
Wed.	Feb. 26	Atmospheric Processes, Circulation	Abbott Ch. 9
Fri.	Feb. 28	Green House, Ozone, Climate Proxies	Abbott Ch. 12
Mon.	Mar. 2	Climate Variations, Ice Ages	Abbott Ch. 12
Wed.	Mar. 4	Weather, Tornadoes, Dust Storms, Hurricanes	Abbott Ch. 10
Fri.	Mar. 6	Water Cycle/Rivers/Floods	Abbott Ch. 11
Mon.	Mar. 9	Floods, Great Dam Bursts	Abbott Ch. 13
Wed.	Mar. 11	Landslides/Human-induced Catastrophes	Abbott Ch. 15
Fri.	Mar. 13	QUIZ # 3 on Part III (in class)	CONNECT HW DUE