

Course: SIO 10 (The Earth)

Instructor: Dr. Adrian Borsa (SIO)

Textbook: "The Earth" (Fifth Edition) by Stephen Marshak

Lectures: MWF 11:00~11:50, Center Hall 105

TA Review Sections: Monday 9:00~10:00 am, Tuesday 2:00~3:00 pm, York 3030

Instructor Office Hours: Wednesday 12:00~2:00 pm, Galbraith Hall TBD

Schedule:

Date	Day	Lecture #	Textbook Chapter Covered	Required Reading
April 3	M	Lecture 1	Introduction	none
April 5	W	Lecture 2	Chapter 1 Cosmology and the Birth of Earth	1.1, 1.2 (pp.13-18.5), 1.4, 2.2 (pp.37-38), Box 2.1
April 7	F	Lecture 3	Chapter 2 Journey to the Center of the Earth	2.1, 2.3, 2.4, 2.5, Box 2.2, 2.6
April 10	M	Lecture 4	Chapter 3 Drifting Continents and Spreading Seas	3.1, 3.2, 3.4, 3.5
April 12	W	Lecture 5	Chapter 4 The Way the Earth Works: Plate Tectonics	4.1, 4.2, Box 4.1, 4.3, 4.4
April 14	F	Lecture 6	Chapter 4 The Way the Earth Works: Plate Tectonics	4.5, 4.6, 4.7, 4.8
April 17	M	Lecture 7	Interlude A Introducing Rocks	A.1, A.2
			Chapter 6 Up from the Inferno: Magma and Igneous Rocks	6.1, 6.2, 6.5, 6.7
April 19	W	Lecture 8	Interlude B A Surface Veneer: Sediments and Soils	B.1, B.2
			Chapter 7 Pages of Earth's Past: Sedimentary Rocks	7.1, 7.4, 7.5
April 21	F	Lecture 9	Chapter 8 Metamorphism: A Process of Change	8.1, 8.2, 8.5
			Interlude C The Rock Cycle in the Earth System	C.1, C.2, C.3
April 24	M	Lecture 10	Chapter 9 The Wrath of Vulcan: Volcanic Eruptions	
April 26	W	Lecture 11	Chapter 9 The Wrath of Vulcan: Volcanic Eruptions	
April 28	F	Lecture 12	Chapter 10 A Violent Pulse: Earthquakes	
May 1	M	Lecture 13	Chapter 10 A Violent Pulse: Earthquakes	
May 3	W	Lecture 14	Midterm Review	
May 5	F	Mid-Term		
May 8	M	Lecture 15	Chapter 11 Crags, Cracks, and Crumples: Crustal Deformation and Mountain Building	
May 10	W	Lecture 16	Chapter 11 Crags, Cracks, and Crumples: Crustal Deformation and Mountain Building	
May 12	F	Lecture 17	Chapter 13 A Biography of Earth	
May 15	M	Lecture 18	Chapter 14 Squeezing Power from a Stone: Energy Resources	
May 17	W	Lecture 19	Chapter 14 Squeezing Power from a Stone: Energy Resources	
May 19	F	Lecture 20	Interlude F Ever-Changing Landscapes and the Hydrologic Cycle	
May 22	M	Lecture 21	Chapter 17 Streams and Floods: The Geology of Running Water	
May 24	W	Lecture 22	Chapter 17 Streams and Floods: The Geology of Running Water	
May 26	F	Lecture 23	Chapter 16 Unsafe Ground: Landslides and Other Mass Movements	
May 29	M	Holiday		
May 31	W	Lecture 24	Chapter 18 Restless Realm: Oceans and Coasts	
June 2	F	Lecture 25	Chapter 18 Restless Realm: Oceans and Coasts	
June 5	M	Lecture 26	Chapter 21 Dry Regions: The Geology of Deserts	
June 7	W	Lecture 27	Chapter 22 Amazing Ice: Glaciers and Ice Ages	
June 9	F	Lecture 28	Chapter 22 Amazing Ice: Glaciers and Ice Ages	
June 13	Tu	Final Exam		