

Instructor: Dr. Adrian Borsa (aborsa@ucsd.edu)

TAs: Madison Ghiz, Shelby Jones-Cervantes, Hannah Peterson

Textbook: "Earth: Portrait of a Planet" (6th Edition) by Stephen Marshak

Lectures: MWF 11:00~11:50, Center Hall 115

Instructor Office Hours: Wednesdays 12:20~1:20 pm, Galbraith Hall 364

Grading: 25% weekly assignments, 25% mid-term exam, 20% end-term project, 30% final exam

Schedule:

Date	Day	Lecture #	Textbook Chapter Covered
April 1	M	Lecture 1	Introduction
April 3	W	Lecture 2	Chapter 1 Cosmology and the Birth of Earth
April 5	F	Lecture 3	Chapter 2 Journey to the Center of the Earth
April 8	M	Lecture 4	Chapter 3 Drifting Continents and Spreading Seas
April 10	W	Lecture 5	Chapter 4 The Way the Earth Works: Plate Tectonics
April 12	F	Lecture 6	Chapter 4 The Way the Earth Works: Plate Tectonics
April 15	M	Lecture 7	Chapter 4 The Way the Earth Works: Plate Tectonics
April 17	W	Lecture 8	Interlude A Introducing Rocks Chapter 6 Up from the Inferno: Magma and Igneous Rocks
April 19	F	Lecture 9	Interlude B A Surface Veneer: Sediments and Soils Chapter 7 Pages of Earth's Past: Sedimentary Rocks
April 22	M	Lecture 10	Chapter 8 Metamorphism: A Process of Change Interlude C The Rock Cycle in the Earth System
April 24	W	Lecture 11	Chapter 9 The Wrath of Vulcan: Volcanic Eruptions
April 26	F	Lecture 12	Chapter 9 The Wrath of Vulcan: Volcanic Eruptions
April 29	M	Lecture 13	Chapter 10 A Violent Pulse: Earthquakes (Tsunamis in Lecture 23)
May 1	W	Lecture 14	Chapter 10 A Violent Pulse: Earthquakes (Tsunamis in Lecture 23)
May 3	F	Lecture 15	Midterm Review
May 6	M	Mid-term	
May 8	W	Lecture 16	Chapter 11 Crags, Cracks, and Crumples: Crustal Deformation and Mountain Building
May 10	F	Lecture 17	Chapter 13 A Biography of Earth
May 13	M	Lecture 18	Chapter 14 Squeezing Power from a Stone: Energy Resources
May 15	W	Lecture 19	Chapter 14 Squeezing Power from a Stone: Energy Resources
May 17	F	Lecture 20	Interlude F Ever-Changing Landscapes and the Hydrologic Cycle
May 20	M	Lecture 21	Chapter 16 Unsafe Ground: Landslides and Other Mass Movements Chapter 10 Tsunamis
May 22	W	Lecture 22	Chapter 17 Streams and Floods: The Geology of Running Water
May 24	F	Lecture 23	Chapter 17 Streams and Floods: The Geology of Running Water
May 27	M	Holiday	
May 29	W	Lecture 24	Chapter 18 Restless Realm: Oceans and Coasts
May 31	F	Lecture 25	Chapter 18 Restless Realm: Oceans and Coasts
June 3	M	Lecture 26	Chapter 21 Dry Regions: The Geology of Deserts
June 5	W	Lecture 27	Chapter 22 Amazing Ice: Glaciers and Ice Ages
June 7	F	Lecture 28	Final Exam Review
June 14	F	Final Exam	

	Introduction
	The Rocky Earth
	The Dynamic Earth
	The Water Earth
	The Giving Earth