

Marine Geology
GLY 5736/GLY4930- Fall 2021

Date	General Topic	Readings
Aug. 25	Introduction and Overview	OB Ch 1 (Intro)
Aug. 27	Ocean Basins and Provinces	OB Ch 2 minus 2.3
Sept. 1	Ocean Crust	OB Ch. 4/ Karson book Section 3.5
Sept. 3	Discussion- <i>Ocean Crust</i>	
Sept. 8	Mid Ocean Ridges	OB sec 2.3, Oceanus article Isostasy Problem due
Sept. 10	Discussion- <i>LIPs and Hotspots</i>	
Sept. 15	Convergent Margins	Keary and Vine (online)
Sept. 17	Convergent and Passive Margins	OB Ch. 3; Seafloor Set due
Sept. 22	Surface Ocean Circulation	Any Intro Oceanography text
Sept. 24	Deep Ocean Circulation	MBC section 2.4
Sept. 29	Ocean Geochemical Cycles	MBC Ch 2; OB Ch. 7
Oct. 1	Discussion- <i>Ocean Conveyor</i>	
Oct. 6	Marine Sediments	MBC Ch 1 & 5.1; OB 6.1 Ocean Circ Exercise due
Oct. 8	Carbonate Systematics	MBC Ch. 3.1, 4.3.3
Oct. 13	EXAM 1	
Oct. 15	Carbonate Systematics	set up dating presentations
Oct. 20	Continental Margin Sedimentation	MBC Ch. 3.2; CCD set due
Oct. 22	Discussion- <i>Carbonate Systematics</i>	
Oct. 27	Interstitial fluids	Presentation topic due
Oct. 29	Discussion- <i>Sea level</i>	OB 6.2-6.2.3

Nov. 3	Interstitial fluids and flow	EOS article online
Nov. 5	Dating Presentations	
Nov. 10	Early Diagenesis	MBC Ch. 5.2
Nov. 12	<i>Discussion- Deep Biosphere</i>	Box 5.3
Nov. 17	Paleoceanography	MCB Ch. 4
Nov. 19	Paleoceanography	OB Ch. 6
Nov. 24	Exam 2	
Nov. 26	THANKSGIVING- no class	
Dec. 1	Presentations	
Dec. 3	<i>Discussion- Paleoceanography</i>	
Dec. 8	Presentations	

Depending on how many presentations there are, we may need a bit of additional time, which can either come during the assigned final exam time or another agreed on time.

Red = no class

Blue= Guest Lecturer

OB = The Ocean Basins: Their Structure and Evolution

MBC = Marine Biogeochemical Cycles