Date	Topic	Assignment	Reading
Monday March 29 Wk1	What is Ocean 200? Course structure & mechanics		Syllabus & Schedule
Wednesday March 31	Energy: How the planet works		S&A 2.2: 34 (Natural Time Periods)-36; 2.4: 37 (Location Systems)-41; 2.6: 45-46 (Oceans)
Friday April 2	Early Earth, layers of Earth, start of plate tectonics		S&A 2.2: 34 (Geological Time); 3.1-3.2: 51-59 (up to Evidence for Crustal Motion)
Monday April 5 Wk 2	Consequences of plate tectonics		S&A 3.4: 65-74, 3.5-3.7: 74-88
Wednesday April 7	The sea floor		S&A 4.1-4.2: 91-103 (up to Sediments); "Mappers of the Deep" by Tharp & Frankel
Friday April 9	Water and dissolved constituents Special properties of water with regards to heat in regards to salt and heat (density)	**HW #1 assigned**	S&A 5.1: 125-126; 5.3-5.4: 127 (Changes of State)-129; 5.6-5.7: 130-132
Monday April 12 Wk 3	Ocean/atmosphere coupling: Winds		S&A 7.1: 168-171 (up to Specific Heat and Heat Capacity); 7.5-7.6: 178-187
Wednesday April 14	Ocean layers & major surface currents	**HW #1 DUE, start of class**	S&A 8.1-8.2: 201-204; 9.1-9.2: 219-223; "Message in a Bottle" by Krajik
Friday April 16	Introduction to thermohaline circulation: Upwelling/downelling	**HW #2 assigned**	S&A 8.2-8.3: 204-207 (up to Bordering Seas); 9.59.6: 226 (begin with Permanent Zones)-230 (up to N. Pacific Oscillations)
Monday April 19 Wk 4	Thermohaline circulation: Movement of heat and gases		S&A 7.8: 189-194; "How the Isthmus of Panama Put Ice in the Arctic" by Haug & Keigwin
Wednesday April 21	Arctic/Antarctic	**HW #2 DUE, start of class**	S&A 5.9: 140-145; "Is Global Warming

			Changing the Arctic?" by Lippsett
Friday April 23	**MIDTERM #1**		
Monday April 26 Wk 5	Light, nutrients & photosynthesis in the ocean		S&A 5.8: 134-137 (Light);14.4: 348-351(up to Oxygen); 15.1: 360-363; 16.1-16.2: 378-386
Wednesday April 28	Heterotrophy in the ocean		S&A 16.3-16.5: 386-395
Friday April 30	Food webs: From plankton to fish		S&A 15.2-15.5: 363-372
Monday May 3 Wk 6	Intertidal organisms & keystone species		S&A 18.1-18.2: 432-443
Wednesday May 5	Fishes & turtles		S&A 17.3-17.6: 416-428
Friday May 7	Marine mammals & apex predators	**HW #3 assigned**	S&A 17.1: 402-414
Monday May 10 Wk 7	***Case Study: Life in a High CO_2 World*** Rising CO_2 levels Ocean acidification & expanding hypoxia		S&A 7.3: 174-176 (Carbon Dioxide and the Greenhouse Effect)
Wednesday May 12	Ocean acidification & the impacts on the intertidal	**HW #3 DUE, start of class**	"Dangers of Ocean Acidification" by Doney; "Anticipating Ocean Acidification's Economic Consequences on Commercial Fisheries" by Cooley & Doney
Friday May 14	Ocean acidification & impacts on corals	**HW #4 assigned**	S&A 18.4: 446-453
Monday May 17 Wk 8	***Case Study: Ocean Fertilization*** Iron fertilization		"Fertilizing the Ocean with Iron" by Powell; "A Rash of Proposals Emerges to Transfer Excess Carbon into the Ocean" by Madin and Nevala
Wednesday May 19	Limiting nutrients concept, growth of phytoplankton, iron	**HW #4 DUE, start of class**	S&A 15.6: 372-374

	fertilization		
Friday May 21	**MIDTERM #2**		
Monday May 24 Wk 9	***Case Study: Puget Sound*** Formation of PS coasts & beaches		S&A 12.1-12.4: 289-301; 12.6: 303-304 (Coastal Structures)
Wednesday May 26	Waves & tides		S&A 10.1-10.5: 240-243 (up to Dispersion); 10.6-10.7: 244-248 (up to Refraction); 10.9: 253-259; 11.1-11.4: 271-276; 11.7: 282-284
Friday May 28	Estuarine circulation & hypoxia	**HW #5 assigned**	S&A 12.7: 306-311; 13.2 324-326
Monday May 31 Wk 10	**HOLIDAY**		
Wednesday June 2	Oceans and human health: HABs	**HW #5 DUE, start of class**	S&A 16.7: 396-399
Friday June 4	Review		
Exam Week, Jun 7 - 11	**Final: June 10th 8:30-10:20AM**		