Date	Торіс	Assignment	Reading
Monday	Requirements/Course		S&A: 34 (natural
March 30	Structure/Intro to course		time)-36; 37 (location
Wk1			systems)-41; 45-46
			(oceans)
Wednesday	Water and water cycle,		S&A: ; 130-134
April 1	Arctic/Antarctic/heat		(temperature & heat,
			changes of state);
			144-150
Friday	Dissolved constituents	HW #1	S&A 154-160 (up to
April 3			gases); 163,166 (pH)
Monday	Early earth, Layers of Earth,		S&A: 34 (geological
April 6	start of plate tectonics		time); 51-59 (up to
Wk 2			evidence for crusal
			motion)
Wednesday	Consequences of plate	HW #1 DUE, start of	S&A 68-77, 78 & 82
April 8	tectonics,	class	("hot spots");
Friday	The sea floor	HW #2	S&A 95-108 (up to
Aprıl 10			sediments); "Mappers
			of the Deep" by Tharp
			& Frankel
Monday	Ocean/atmosphere coupling:		S&A 1/3-1/6 (up to
April 13	Winds		specific heat), 184-196
Wk 3			(sections 7.5, 7.6)
Wednesday	ocean layers; El Nino	HW #2 DUE, start of	S&A 197-201 (el
April 15		class	nino), 208-211
F 1			(sections 8.1, 8.2)
Friday	Major surface currents		S&A 22/-231
April 17			(sections 9.1, 9.2),
			Message in a Bottle
Monday	Thermohaline airculation:		Dy Niajik S&A 211 217 (up to
Monday	I nermonaline circulation,		S&A 211-21/ (up to bordering goog): 226
April 20			(hagin with normanant
WK 4	zones		(begin with permanent
			Pacific oscillations)
Wednesday	Hurricanes/storm surge		$S\& \Lambda 196-197$ (section
April 22	furnearies/storm surge		7 7): 201-204
7 ipin 22			(practical
			(practical considerations)
Friday	Mid term	Midterm 1	
April 24			
Monday	Light and nutrients;		S&A 360-363(up to
April 27	Photosynthesis in the ocean,		oxygen); 372-375
Wk 5			(section 15.1); 390-
			398 (sections 16.1,
			16.2)

Wednesday April 29	heterotrophy in the ocean		S&A 398-408 (sections 16.3, 16.4, 16.5)
Friday May 1	Food webs, from plankton to fish Hypoxia?	HW #3	S&A 375-384 (sections 15.2-15.5);
Monday May 4 Wk 6	Fishes and turtles		S&A 429-441
Wednesday May 6	Marine Mammals (include impacts of toxic algae on marine mammals)	HW #3 DUE, start of class	S&A 415-426 (section 17.1)
Friday May 8	Waves; energy from waves Tsunamis	HW #4	S&A 248-251 (up to dispersion); 253-254 (wave height); 255- 257 (up to refraction); 262-255 (section 10.9)
Monday May 11 Wk 7	Tides		S&A 280-287 (sections 11.1- 11.5); 291-294 (section 11.7)
Wednesday May 13	Life in a High CO₂ World Rising CO ₂ levels Heat and expanding hypoxia	HW #4 DUE, start of class	S&A 180-182 (carbon dioxide)
Friday May 15	Ocean acidification		"Dangers of Ocean Acidification" by Doney; "Anticipating Ocean Acidification's Economic Consequences on Commercial Fisheries" by Cooley & Doney
Monday May 18 Wk 8	Potential impacts on corals		S&A 461-466 (section 18.4)
Wednesday May 20	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
Friday May 22	Midterm	Midterm 2	
Monday May 25 Wk 9	HOLIDAY		
Wednesday May 27	Limiting nutrients concept, growth of phytoplankton, iron fertilization		S&A 384-387 (section 15.6)

Friday	Other means of fertilization	HW #5	
1 I ludy	Other means of fertilization	11 ••• #5	
May 29			
Monday	Puget Sound/Strait of Juan		S&A 300-313
June 1	de Fuca		(sections 12.1-12.5);
Wk 10	Coasts and beaches		314-315 (coastal
			structures)
Wednesday	Estuarine circulation; hypoxia	HW #5 DUE, start of	S&A 320-321; 336-
June 3		class	338 (section 13.2)
June 5	Oceans and human health;		S&A 409-412 (section
	HABs; invasive species		16.7)
Thursday	Final, 8:30-10:20		
Jun 11			