## Coastal Biogeochemical Cycles in a Changing World:

Environmental Sciences 11:375:474 and Marine and Coastal Sciences 11:628:474

<u>Date</u>	L	ect. #	Assignment	Lecturer	<b>Topic</b>	Reading ()
Region I	Estu	aries d	and salt marshe	?S		
3	1	W		Liz	The water: Geochemical gradients and tidal mixing, Nutrients	
	2	M	HW #1	both	Project #1 introduction	
	3	W		Liz	Eutrophication and Carbonate weather	
	4	M		Kat	Carbon cycle in marshes& estuaries	
	5	W		Liz	Anoxia, methane EH pH Redox Chemistry and diagenesis in coastal marine Sediments	
	6	M		both	Project #1 work-up	
	7	W		both	Presentations wrap up	
Region I	I Car	bonat	e platforms and	l coral reefs		
	8	M		Kat	The water: Carbonate System Alkalinity, TCO <sub>2</sub>	
	9	W	HW #2	both t	Project #2 introduction	
	10	M		Kat	Corals, calcifying algae,	
	11	W		Liz	Carbonate extremes, sulfates, salt precipitation microbial mats stromatolites	
	12	M		both	Project #2 work-up	
	13	W		Kat	Redox Chemistry and diagenesis in Marine Sediments	
	14	Mo		both	Exam	
13- and 16-Mar				SPR	ING BREAK	

<b>Date</b>	Lect. #	Assignment	Lecturer	<u>Topic</u> <u>Reading (s)</u>					
Region II	Region III Upwelling and ocean dominated coasts								
-	15 W		Liz	Upwelling, carbonate weather, HNLC					
	16 Mo	HW #3	both	Project #3 introduction					
	17 W		Kat	Oxygen minimum and the nitrogen cycle					
	18 Mo		Liz	Multidecadal and anthropodgenic influences					
	19 W		Kat	CO <sub>2</sub> atmosphere, ocean exchange and climate					
	20 Mo		both	Project #3 work-up					
	21 W		both	Presentations /wrap up					
Region I	V Arctic an 22 Mo	ıd glacier domii	nated coasts  Liz	Peat, Permafrost, ancient carbon and warming climate					
	22 WO	HW #4	both	Project #4 introduction					
	24 Mo	11 ** " 1	Liz	River dominated coasts oxic and and anoxic diagenesis					
	25 W		Liz	Fjords, circulation and melting glaciers					
	26 Mo		both	Project #4 work-up					
	27 W		Kat	Long term view of a warming world					
	28 Mo		both	Presentations /wrap up					
-				FINAL EXAM					