## **LA12: Environmental Science for Sustainable Development** – **Fall 2019** - *draft* Some topics/dates subject to change. See *bcourses* for updated syllabus and assigned readings/films each week.

Week	Date	Lecture	Instructor	Section Section
Week 1		Course overview/population/footprint	Kondolf	No lab meeting, environmental
				science autobiography
		EARTH, ENERGY, AND CLIMATE		
Week 2		A dynamic earth	Kondolf	Campus Overview, 'Inconvenient
	Th Sep 05	Energy basics	Kondolf	Truth' (watch on your own)
Week 3	T C 10	E	IZ 1 - 1 C	
	<u> </u>	Fossil fuels, air pollution, climate change	Kondolf	Carbon Cycle, Ecological Footprint, Discuss 'Inconvenient Truth', 'Under
	In Sep 12	Renewables: energy generation	Brockway	the Dome' (watch on your own)
				ine Bome (water on your own)
Week 4	Tu Sep 17	Nuclear energy	Peterson	Measure airborne particulates; Start
	Th Sep 19	Intro to life cycle assessment	Dzombak	discussion 'Under the Dome'
Week 5		Urban forestry, micro-climate, air quality	McBride	Urban forestry lab; Reading response
	Th Sep 26	Renewable transportn, response to films	Lipman/Kond	i due
W 1.6	T. O : 01	WATER	TZ 1 1C	
Week 6	_	Hydrologic cycle and the waterscape	Kondolf	Strawberry Ck walking tour
	In Oct 03	Water supply over time	Kondolf	
Week 7	Tu Oct 08	Midterm Exam		
WCCK /		Strawberry Ck: making of an urban creek	Charbonneau	Film: Symphony of soil
	TH OCt 10	Strawberry Ck. making of an urban creek	Charbonneau	
Week 8	Tu Oct 15	Aquatic insects and water quality	Mendez	Aquatic life in Strawberry Creek
	_	Industrial agriculture, alternatives	Wilson	
		,		
Week 9	_	Stormwater management	Kondolf	Stormwater management tour
		Rivers of the Anthropocene	Kondolf	
		ECOSYSTEMS, FOOD, HEALTH		
Week 10		Water supply and public health		Urban garden field visit
	Th Oct 31	Sustainable Fisheries	Kondolf	
Week 11	Tu Nov 05	Soil resources		Teams form, write project proposals. Reading response due
		Ecosystems and conservation		
	TII NOV U/	SUSTAINABILITY STRATEGIES		reduing response due
Week 12	Tu Nov 12	Energy-efficient cool-climate cities	Jones	Group work for final project
		Sustainable floodplains	Kondolf	
		Sustainable Hoodpanis	Trongon	
Week 13	Tu Nov 19	Sustainable transportation		Building sustainability tour
	Th Nov 21	Sustainable buildings		
Week 14	Tu Nov 26			No lab this wk; Reading response due Draft project report due Mon Nov 25
	Th Nov 28	Thanksgiving Holiday		
Week 15	Tu Dag 02	Sustainable SE Bay	Kondolf	Oral presentations of research projects
	_	Sustainable SF Bay Course conclusion	Kondolf	
		Optional: River Restoration Symposium	AOHUOH	projects
Exam wk		Final project due		
LAGIII WK		Final exam 8a-11a		Optional review sessions TBA
	11 1000 20	I wow Chair On 110		