

Environmental Science LECTURE AND LABORATORY SCHEDULE

Disclaimer: This lecture schedule is my best forecast of the order in which course material will be presented. Additional reading assignments are posted on the course web page. There is no guarantee that we will follow this schedule: any changes will be announced in class.

Week	Date	Lecture Topic for the Week	Daily Lecture Topic	Weekly Lab	What's Due
1	29-Aug	Introduction: Science, Sustainability, Systems and Modelling , Miller, Chap. 1	From here to where?	Campus Sustainability Tour (M on WED)	
	31-Aug		Systems and Modelling		
2	5-Sep	Ecosystems: Energy Flow & Matter Cycling, Biomes, Biodiversity , Miller, Chap. 4-6	Important Scientific Laws Energy and Matter Flow Energy & Matter Quality	No Lab for Mon Campus Tour for Wed	
	7-Sep		Biodiversity (Video)		Assignment #1 (Resume)
3	10-Sep	Population and Community Ecology , Miller, Chap. 8 & 9	Species Interactions	Zebra Mussel Sampling	
	12-Sep		Reproductive Patterns and Survival Strategies		Real Tour Trifold Pamphlet
	14-Sep		Zebra Mussels: GIS demonstration		
4	17-Sep	Human Population Dynamics , Miller, Chap 10, Hertsgaard, Chap. 6	Demography and age structure	Dynamic of the Dead	Assignment #2 (Footprint Analysis)
	19-Sep		<i>Video: People Bomb (V-3305 CNN 1992)</i>		
	21-Sep		Earth Odyssey Discussion		Zebra Mussel Lab Report
5	24-Sep	Risk, Toxicology and Human Health , Miller, Chap. 19	Rick & Toxicology Principles	Glowing Daphnia	Small Group Research Project Hypotheses
	26-Sep		Guest Lecture (Sandra Steingraber)		
	28-Sep		QUEST #1		Quest #1: Chapters 1,4,5,6,8,9

6	1-Oct	Food Resources , Miller, Chap. 14	Conventional and sustainable agriculture Corporate Agriculture: Cultivating Trouble DVD 2291 Alternative Agriculture: Food for Life DVD 2292	Stick & Stone Farm	Assignment #3 (Diet Analysis)
	3-Oct		Test Review and First Quarter Evaluation		Results for Dynamics of the Dead
	5-Oct		Video: Empty Oceans, Empty Nets		
7	8-Oct	Water Resources , Miller, Chap. 15	Hydrological Cycle Everglades	Speedsville Stream Restoration	
	10-Oct		Water shortages: Midwest, Middle East, Aral Sea Collapse of the Aral Sea Ecosystem DVD 927		Toxicology Experiment Questions and Graph
	12-Oct		Thirsty Planet: Water for the Cities DVD 1833		Small Group Research Proposals 1st draft
8	15-Oct		QUEST #2	EcoVillage at Ithaca	Quest #2: Chapters 10, 14, 15, 19
	17-Oct		River Issues: Nile, Colorado River (video? – Rivers of Destiny)		
	19-Oct		Fall Break		
9	22-Oct	Non-renewable Energy Resources , Miller, Chap 17 & Hertsgaard, Chap. 4	Oil: Resources and reserves, Hubert's Bell curve Exploration	Scranton Field Trip	
	24-Oct		Video		
	26-Oct		Earth Odyssey Discussion : Chapter 5		Small Group Research Proposals 2 nd draft
10	29-Oct		Natural Gas, Shales, Sands and Methane Hydrates Natural Gas Hydrates; The Fuel of the Future? DVD 1781	Small Group Experiments	
	31-Oct		Coal		Assignment #4 (Hands-on Project) – anytime actually

	2-Nov		Nuclear Energy and Disposal, Fuel Cells, Energy Efficiency		
11	5-Nov	Renewable Energy & Energy Efficiency , Miller, Chap. 18	Solar, Wind, Hydroelectric, Geothermal, Tidal & Biomass	Small Group Experiments	
	7-Nov		Energy for the Future DVD 1309		
	9-Nov	Air Pollution , Miller, Chap. 20, Hertsgaard, Chap. 5	Indoor and Outdoor Air Pollution		Assignment #5 (Writing Assignment)
12	12-Nov		Earth Odyssey Discussion and Long Range Air Pollution	Computer Lab: Kyoto Protocol	
	14-Nov	Global Climate Change , Miller, Chap. 21	Global Climate Change: Causes and Global Circulation Models, Kyoto Protocol Demo		
	16-Nov		QUEST #3		Quest #3: Chaps 17,18
13	26-Nov	Water Pollution , Hertsgaard, Chap. 9 and Miller, Chap 22	Hazardous Algal Blooms	Ithaca Waste Water Treatment Facility	
	28-Nov		Earth Odyssey Discussion		
	30-Nov		<i>Video: Poisoning the Rockies</i>		
14	3-Dec		QUEST #4	Dumpster Diving	Quest #4: Chaps 20, 22
	5-Dec	Solid & Hazardous Waste , Miller, Chap 24	Disposal Options for Solid Waste		Assignment #6 (Pollution in Your Community)
	7-Dec		Issues on Hazardous Waste Disposal (Video: Global Dumping Ground)		Dumpster Diving Results
15	10-Dec	Review	Small Group Experiment Presentations	No lab	
	12-Dec		Small Group Experiment Presentations		
	14-Dec		Review		Small Group Scientific Paper Due
	19-Dec	FINAL EXAM (10:30 – 1 pm)			