

IET3511-850/900 - Fall 2014 – Professor Gregory Wiles
Sustainability Engineering: Topics in Green Engineering
Course Schedule

Mod	Class	Date	Topic, Class Notes	Reading Assignments*	Supplemental Instructions
1	1	Aug 18 Mon	Introduction and Course Overview	Ch 1, p. 1-12	
	2	Watch Video	Environmental Ethics & Attitude	Ch 2, p. 15-35	Download Term Project 1
2	3	Aug 25 Mon	Environmental Economics	Ch 3, p. 42-59	
	4	Watch Video	The Science of Matter and Energy	Ch 4, p. 61-77	
		Sep 1	Labor Day - no class		
	5	Sep 8 Mon	Nonrenewable energy – Coal, Oil, Natural Gas	Ch 9, p.179-189	
3	6	Watch Video	Renewable energy – Hydroelectric, Tidal, Geothermal, Wind, Solar, Biomass, Nuclear, Fuel Cell	Ch 9, p.190-202 & Ch 10, p. 209-219	
4	7	Sep 15 Mon	Renewable energy – Hydroelectric, Tidal, Geothermal, Wind, Solar, Biomass, Nuclear	Ch 9, p.190-202 & Ch 10, p. 209-219	
	8	Watch Video	Energy Consumption/Conservation	Ch 8, p.167-177 & Ch 9, p.202-206	
5	9	Sep 22 Mon	Exam 1 and Term Project 1 due		
	10	Watch Video	Human Population Growth	Ch 7, p. 145-164	Download Term Project 2
6	11	Sept 29 Mon	Terrestrial Biodiversity	Ch 11, p. 232-248	
	12	Watch Video	Water Management & Pollution	Ch 15, p. 335-364	
7	13	Oct 6 Mon	Water Management & Pollution	Ch 15, p. 335-364	
	14	Watch Video	Water Management & Pollution	Ch 15, p. 335-364	
8	15	Oct 13 Mon	Air Quality Issues	Ch 16, p. 366-395	
	16	Watch Video	Air Quality Issues	Ch 16, p. 366-395	
9	17	Oct 20 Mon	Air Quality Issues	Ch 16, p. 366-395	
	18	Watch Video	Soil Management	Ch 13, p. 288-309 & Ch 14, p. 314-323	
10	19	Oct 27 Mon	Soil Management	Ch 13, p. 288-309 & Ch 14, p. 314-323	
	20	Watch Video	Solid Waste Management		
11	21	Nov 3 Mon	Exam 2 and Term Project 2 due	Ch 17, p. 396-410	Download Term Project 3
	22	Watch Video	Hazardous Waste Disposal	Ch 17, p. 396-410 Ch 10, p. 222-226	
12	23	Nov 10 Mon	Recycling and Source Reduction	Ch 17, p. 405-410	
	24	Watch Video	Recycling and Source Reduction	Ch 17, p. 405-410	
13	25. 26	Watch Videos	Environmental Regulations & EPA	Ch 18, p. 411-429	Assign Team to Presentation Day
		Nov 17 Mon	Exam 3	Skip Ch 19	
14	27	Nov 24 Mon	Term Project 3 & Presentations due		
15	28	Dec 1 Mon	Term Project 3 & Presentations due		

***Text Reading Assignments from:**

Engler, E.D. and B.F. Smith. Environmental Science, Eleventh Edition, McGraw Hill, New York, NY.