

Energy and the Environment, Spring 2009, Class Schedule

Date	Home-work	Class	Topics	Reading Assignment
Jan. 13		1	Class Introduction, Science, Technology & Limits, The Necessity of Finite Population	Chapters 1 and 2
Jan. 15		2	Work, Energy, and Power	Chapter 3
Jan. 20			Snow day, no class	
Jan. 22	Hwk. 1 (1-3) due	3	Electricity, Projections of Energy Consumption	Chapters 4 and 5
Jan. 27		4	Atoms & Chemical Energy	Chapters 6
Jan. 29		5	Energy Generation Efficiency, Thermodynamics	Chapter 7
Feb. 3	Hwk 2. (4-6) due	6	Production & Distribution of Electricity	Chapter 8
Feb. 10		7	Conservation as an Energy Resource	Chapter 9
Feb. 12		9	Mineral Resources, Recycling & Reuse	Chapters 10, 11
Feb. 17	Hwk. 3 (7-9) due	10	Fossil-Fuel Resources	Chapter 12
Feb. 19		11	Review, Chapters 1 -11	
Feb. 24		12	In-class Test #1, Chapters 1-11	
Feb. 26		13	Fossil Fuel Resources	Chapter 12
Mar. 3				
Mar. 5			Environmental Impacts & Pollution from Generating Facilities	Chapter 13-14
Mar. 10-12			Spring Break, no classes	
Mar. 17				
Mar. 19		14	Weather & Climate	Chapter 16
Mar. 24	Hwk. 4 (10-11 due)	15	Climate Change and Human Activity	Chapter 17
Mar. 26		16	Nuclear Reactions, Nuclear Energy Production Basics	Chapters 18-19
Mar. 31		17	Nuclear Energy Production Basics	Chapter 19

April 2			Safety & Nuclear Energy, Project Presentation	Chapter 20
April 7			Solar Energy: Wind, Photovoltaics, Large-Scale Installations	Chapter 21
April 9	Hwk. 5 (13, 14) due		Project Presentation	Chapter 21
April 14	Hwk. 6 (16, 17) due		Solar Energy and Water	Chapter 22
April 16			Project Presentations	Chapter 22
April 21	Hwk. 7 (18, 19, 20) due		Biomass Energy	Chapter 23
April 23			Energy Storage and Energy Alternatives, Project Presentations	Chapter 25
April 28	Hwk. 8 (21-25) due		Review, Project Presentations	
May 5, 2- 5 PM			Final	