

DRAFT Syllabus for Energy Systems & Climate Change, Winter 2010

(See Moodle for updates and links)

ENERGY section, Dr. E.J. Zita <zita(at)evergreen.edu> - **updated 29 Dec.09**

Classes + discussions + workshops + seminars. HW DUE Thursday BEFORE CLASS.

	Monday 1:00-5:00	Wednesday (free)	Thursday 1:00-5:00
Week 1	4 Jan. Program introduction; Wolfson Ch.12, Greenhouse workshop , Gore: Intro, Ch.1-2	6 Jan. Your research & Faculty office hours	8 Jan. Wolfson Ch.13-15 (Climate Forcing, Warming, and Modeling), UNEP update, and Gore Ch.15 (The True Cost of Carbon) Start Seminar on <u>Lives Per Gallon</u> DUE: Greenhouse Workshop
Week 2	11 Jan. Wolfson 9 (Solar) and Gore 3; <i>Scientific American article on Solar Solution</i>	13 Jan. Your research & Faculty office hours	15 Jan. Continue Wolfson 9 (Solar) and Gore 3; <i>Scientific American article on Solar Solution</i> ; Finish Seminar on <u>Lives Per Gallon</u>
Week 3	18 Jan. MLK HOLIDAY	20 Jan. Your research & Faculty office hours	22 Jan. Wolfson Ch. 10 (Water, Wind, Biomass) and Gore Ch.4,6 Start Seminar on <u>Laboratory Earth</u>
Week 4	25 Jan. Wolfson Ch.11 (H) and Gore Ch.9-11	27 Jan. Your research & Faculty office hours	29 Jan. Ch.8 (Tides & Geothermal) and Gore Ch.5; Finish Seminar on <u>Laboratory Earth</u>
Week 5	Your midquarter research reports, midterm exam/survey, and team conferences		
Week 6	8. Feb. Field trip to Campus Steam Plant	10 Feb. Your research & Faculty office hours	12 Feb. Gore Ch.12 (How we use Energy) Seminar on articles TBD
Week 7	15 Feb. President's Day HOLIDAY	17 Feb. Your research & Faculty office hours	19 Feb. Gore 13 (Supergrid) Seminar on articles TBD
Week 8	22 Feb. Gore Ch.14 and articles (TBD)	24 Feb. Your research & Faculty office hours	26 Feb. Gore Ch.8 (Nuclear); Start Seminar on <u>Revenge of Gaia</u>
Week 9	1 Mar. TBD	3 Mar. Your research & Faculty office hours	5 Mar. Wolfson 16 (Solutions) and Gore Ch.16-18 Finish Seminar on <u>Revenge of Gaia</u>
Week 10	Your Research Presentations and final exam/survey		
Week 11	Final evaluation conferences		

8 credits Research + 4 credits Energy Science + 2 credits Climate Change Science + 2 credits Seminar = 16 credits total (these can be flexible within reasonable limits if you have special credit needs, e.g. for MIT)