AOS/NIES 171

Global Change: Atmospheric Issues and Problems Schedule of Topics, Chapters, and Assignments Spring 2018

T 1/23	L1 - The earth system and global change (Chapter 1)
R 1/25	L2 - Changes in atmospheric composition (Chapter 1)
T 1/30	L3 - Evolution of the earth system (Chapter 1)
R 2/1	L4 - Nuts and bolts of the climate system (Chapter 2); Oral assignment 1
T 2/6	L5 - Radiative equilibrium (Chapter 2); Written assignment 1 due
R 2/8	L6 - The natural atmospheric greenhouse effect (Chapter 2)
T 2/13	L7 - General circulation of the atmosphere and ocean - I (Chapter 3)
R 2/15	L8 - General circulation of the atmosphere and ocean - II (Chapter 3)
T 2/20	L9 - Role of the ocean in the climate system (Ch. 3); Revised written assignment 1 due
R 2/22	L10 - Interannual variability (Chapter 3)
T 2/27	In-class review
R 3/1	Exam 1
T 3/6	L11 - Paleoclimate - I (Chapter 4)
R 3/8	L12 - Paleoclimate - II (Chapter 4); Written assignment 2 due
T 3/13	L13 - Volcanoes and climate (Chapter 4)
R 3/15	L14 - The stratospheric ozone layer (Chapter 5)
T 3/20	L15 - The ozone hole (Chapter 5); Revised written assignment 2 due
R 3/22	L16 - Tropospheric Pollution - I (Chapter 6); Meet to talk about term paper topic
March	24 – April 1 Spring Break
T 4/3	L17 - Tropospheric Pollution - II (Chapter 6)
R 4/5	L18 - Biodiversity (Chapter 10)
T 4/10	L19 - Land, food, energy; Water cycle; Desertification; Coral bleaching; (Chapter 7)
	Written assignment 3 due
R 4/12	L20 - Carbon cycle; Vegetation and climate; Ocean acidification (Chapters 8 and 9)
T 4/17	In-class review
R 4/19	Exam 2
T 4/24	L21 - Environmental Engineering; Alternative energy (Chapter 11);
	Revised written assignment 3 due
R 4/26	L22 - Value systems and strategies (Ch. 13); Term paper due; Student presentations;
	Select debate topics; Teaching evaluations
T 5/1	Oral Assignment 2: Global Change Debates
R 5/3	Oral Assignment 2: Global Change Debates