

AOS/NIES 171
Global Change: Atmospheric Issues and Problems
Schedule of Topics, Chapters, and Assignments
Spring 2017

- T 1/17 L1 - The earth system and global change (Chapter 1)
R 1/19 L2 - Changes in atmospheric composition (Chapter 1)
T 1/24 L3 - Evolution of the earth system (Chapter 1)
R 1/26 L4 - Nuts and bolts of the climate system (Chapter 2); *Oral assignment 1*
T 1/31 L5 - Radiative equilibrium (Chapter 2); *Written assignment 1 due*
R 2/2 L6 - The natural atmospheric greenhouse effect (Chapter 2)
T 2/7 L7 - General circulation of the atmosphere and ocean - I (Chapter 3)
R 2/9 L8 - General circulation of the atmosphere and ocean - II (Chapter 3)
T 2/14 L9 - Role of the ocean in the climate system (Ch. 3); *Revised written assignment 1 due*
R 2/16 L10 - Interannual variability (Chapter 3)
T 2/21 *In-class review*
R 2/23 *Exam 1*
T 2/28 L11 - Paleoclimate - I (Chapter 4)
R 3/2 L12 - Paleoclimate - II (Chapter 4); *Written assignment 2 due*
T 3/7 L13 - Paleoclimate - III (Chapter 4)
R 3/9 L14 - Volcanoes and climate (Chapter 4)
T 3/14 L15 - The stratospheric ozone layer (Chapter 5)
R 3/16 L16 - The ozone hole (Chapter 5); *Revised written assignment 2 due*
March 18 – 26 Spring Break
T 3/28 L17 - Tropospheric Pollution - I (Chapter 6); *Meet to talk about term paper topic*
R 3/30 L18 - Tropospheric Pollution - II (Chapter 6)
T 4/4 L19 - Biodiversity (Chapter 10)
R 4/6 L20 - Land, food, energy; Water cycle; Desertification; Coral bleaching;
Written assignment 3 due
T 4/11 L21 - Carbon cycle; Vegetation and climate; Ocean acidification
R 4/13 L22 - Forecasting future climate
T 4/18 *In-class review*
R 4/20 *Exam 2*
T 4/25 L23 - Environmental Engineering; Alternative energy (Chapter 11);
Revised written assignment 3 due
R 4/27 L24 - Value systems and strategies (Ch. 13); *Term paper due; Student presentations;*
Select debate topics; Teaching evaluations
T 5/2 *Oral Assignment 2: Global Change Debates*
R 5/4 *Oral Assignment 2: Global Change Debates*