

DRAFT

GEOG/ENST 3331: ENVIRONMENTAL ISSUES: A CLIMATOLOGICAL APPROACH

Instructor: Dr. Adam Cornwell
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Office: RC 2006D

Lecture Schedule: Monday and Wednesday, 1:00 – 2:30 (RB 2026)

Course Content:

This course is an examination of current environmental issues and how they affect or are affected by the Earth's climatology. The course emphasizes the relationships between society and environment, which are central to all of the issues.

Topics to be Covered:

- I. Experiencing weather and climate
 - a. The atmosphere
 - b. General circulations
 - c. Weather and climatic forecasting
- II. Climate and pollution
 - a. Global chemical cycles
 - b. Air pollution
 - c. Acid rain
 - d. Persistent organic pollutants
- III. Anthropogenic affects on climate
 - a. Urban heat islands
 - b. Ozone depletion
 - c. Global climatic change

Evaluation Scheme:

Exercises	Weekly	4%
Midterm I	October 13	24%
Midterm II	November 10	24%
Final Examination	TBA	48%

The course includes take-home exercises which will be submitted on-line and then discussed in class. The exercises are not evaluated but completing them will be worth 4% of the final grade.

Textbooks:

Students should be in possession of a thorough and recent climatology text, such as:

Ahrens, Jackson and Jackson (2012). *Meteorology Today, 1st Canadian Edition*. Nelson.
Aguado and Burt (2010). *Understanding Weather and Climate, 5th edition*. Prentice-Hall.

Students may also find it helpful to refer to the textbook from GEOG/ENST 1120:

Dearden and Mitchell (2009). *Environmental Change and Challenge, 3rd edition*. Oxford University Press.