

DEPARTMENT OF GEOGRAPHY  
University of Toronto  
COURSE OUTLINE

Winter 2015

COURSE: **GGR 314S - Global Warming**  
LOCATION & TIME: **BA1160, Mon 5-8**  
OFFICE HOURS: Mon 3-5, Fri 2-5

INSTRUCTOR: Danny Harvey; SS 5032A  
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### **Outline**

A comprehensive and critical treatment of the greenhouse gas/global warming issue and its relationship to other atmospheric environmental problems. See list of lecture topics on the reverse side.

### **Required Reading**

Some academic papers are assigned as required readings for 5 of the 12 weeks. To assist students in digesting the readings, a number of weekly voluntary discussion groups will be scheduled during which the readings can be discussed and debated. All of the required readings plus a complete set of lecture notes will be available for sale in class at the beginning of class (for \$35-40 total) the first two weeks (and also in week 3 for the readings), or at my office on M3-5 and F10-12 & 2-5 those weeks. There is no required textbook.

### **Requirements and Grade**

To do well, students should devote 12 hours per week to attending lectures and a discussion group, and reading and reviewing the lecture notes and required readings.

Marks breakdown: Four 20-50 minute term tests each worth 10 % of the final mark  
One writing assignment worth 10% of the final mark, assigned on January 19<sup>th</sup> and due on February 23<sup>rd</sup>  
A 2-hour final exam worth 50% of the final mark and covering the entire course.

I expect all students to write the midterm exams except under the most severe and exceptional circumstances. I will not accept having a cold, a stomach ache, or headache, or something of that sort as a valid reason for not writing any midterm. If, for some extraordinary reason, you do miss a midterm, please notify me within 24 hours of the exam by email. You should get a reply by email confirming the day and time of the makeup within 2 days of the midterm. If you do not get a reply by then, email me again. Makeup tests will be held no later than 1 week after the regularly scheduled tests and will be designed to be a little harder than the regular tests. A note from a doctor explicitly stating that you were unfit to write a term test will be required.

### **Format of Tests and Final Exam**

The first term test will involve 1- or 2-word-answer questions chosen from a menu of questions provided in class. Subsequent tests involve short-answer questions and some additional 1- or 2-word answer questions. I will be looking for logical, clear thinking, understanding of simple cause-effect relationships, and an appreciation of the linkages between related issues. 25-30% of the marks on term tests 3 and 4 will involve

questions about specific readings. The final exam will include essay-style questions that require deeper thinking and synthesis, plus 1- or 2-word-answer questions from the same menu as for the term tests, and will cover the entire course. The final exam will not ask questions about specific readings, although marks will be awarded to students who refer to some of the readings in order to support their arguments. Marks will be deducted from term tests and the final exam for poor writing or improper English. Those with English writing difficulties should make use of the free writing labs offered by the university.

### Return of Term Tests

Term tests can be picked up only in class, except for the final term test, which will be available to be picked up on Mon April 6<sup>th</sup> in Sidney Smith Room 5064 between 4-6 PM. Term tests not picked up then will be available for pickup at my office for the first hour after the final exam, and if not picked up then, will be discarded.

### Discussion Groups

Small-group meetings will be held during the weeks where the 3<sup>rd</sup> hour is marked “Tutorial” in the outline below. Three parallel sessions will be held during these times, and three sessions on other days of the week. At these meetings, the mandatory readings will be discussed and highlighted, except for the second tutorial, which will involve a mind-mapping exercise in preparation for Term Test #2. The value of the tutorials will be greatly diminished if students do not come prepared. Students may come to whatever session they wish, but if your designated Monday session is crowded and you can attend a session on another day, please do so. Tutorial sessions that are not well-attended might be cancelled.

Locations of tutorials:

Mondays, Last name A-E: SS2124A, F-M: SS2129 (between rooms 2128 & 2127), N-Z: SS5017A and these 2 times in SS5017A: Tues 5-6 and Thurs 12-1, and also Wed 12-1 in SS2124A

### Emails

I welcome dialogue by email concerning the material in the course. However, I will delete without answering any emails asking me what is covered on the term tests or final exam, where the discussion groups are held, or asking to come to my office to pick up a term test. Include GGR314 in the subject line of your emails (this especially makes it easier to find your email later).

### Outline of Lectures (with Chapters from Lecture Notes)

Date	1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour
5 Jan	Introduction (Ch 1)	Introduction (Ch 1)	Introduction (Ch 1)
12 Jan	Introduction (Ch 1)	Economic Models (Ch 2)	Economic Models (Ch 2)
19 Jan	<b>Term Test #1 (covers Intro)</b>	C Cycle Models (Ch 3)	C Cycle Models (Ch 3)
26 Jan	Climate Models (Ch 4)	Climate Models (Ch 4)	Tutorial
2 Feb	Climate Models (Ch 4)	Climate Models (Ch 4)	Tutorial
9 Feb	<b>Term Test #2 (covers Ch. 2-4)</b>	Agricultural Impacts (Ch 5)	Forestry Impacts (Ch 6)
23 Feb	Heat Stress and Water (Ch 7)	Marine Impacts (Ch 8)	Tutorial
2 Mar	Marine Impacts (Ch 8)	Framework (Part III Preamble)	Tutorial
9 Mar	<b>Term Test #3 (covers Ch. 5-8 + PIII PA)</b>	Energy Efficiency (Ch 9)	Energy Efficiency (Ch 9)
16 Mar	Renewable Energy (Ch 9)	Renewable Energy (Ch 9)	Tutorial
23 Mar	Policies (Ch 10), Psychology of Denial (Ch 11)	Outreach & Actions (Ch 11)	Tutorial
30 Mar	<b>Term Test #4 (covers Ch. 9-11)</b>	Review & Synthesis (Ch 12)	Past final exams, logic
6 Apr	4 <sup>th</sup> term test available for pickup in Sid Smith Room 5064 between 4:00 and 6:00 PM		