

Recitation Syllabus - Winter Quarter 2007  
Geography 597.02: Integrated Earth Systems: Confronting Global Change  
Professor Ellen Mosley-Thompson

The recitation class meets Thursday in Derby Hall Room 140 (10:30 to 11:48 a.m.).

Week 1 (Thursday Jan 4) Dr. EMT will be absent; Your TA, Ms. Bumbaco (Karin), will provide an overview of the class web page, how to access assigned materials from E-Reserves on Carmen, and how to access journal articles electronically. She will provide a tutorial on Excel for those who are not familiar with Excel (calculations and graphic) or who might need a refresher. Exercise 1 entitled "Trends that are shaping our future" will be assigned and is due at the beginning of class in Week 2. Note that an Excel Tutorial is also linked under Exercise 1 on the Class Web Page (<http://geog-www.sbs.ohio-state.edu/courses/G597.02/>).

Week 2 (Thursday Jan 11) Exercise 2: The Greenhouse Effect and the "Enhanced" Greenhouse Effect Exercise 1 will be turned in at the beginning of the class. We will discuss any questions you may have about the IPCC and/or climate change issues in general. Exercise 2 will be assigned and you will work through the module in class. This module runs only on the computers in room 140.

Week 3 (Thursday Jan 18) Exercise 3: Carbon Dioxide (CO<sub>2</sub>) Concentrations: Excel Calculations & Graphing the Results; Exercise 2 will be turned in at the beginning of the class. We will discuss any questions you may have about lecture materials, the IPCC, the GHE, and/or climate change issues in general. Project topics will be assigned. The Project (paper and presentation) accounts for 15% of your final class grade. Exercise 3 will be assigned and you will begin working on this in class.

Week 4 (Thursday Jan 25) Exercise 4: Exploring deforestation and the world's need for wood products. Exercise 3 will be turned in at the beginning of class. There will be time for questions on any topic relevant to the class. Exercise 4 will be assigned and you are free to begin working on it in class.

Week 5 (Thursday Feb 1): Exercise 4 is due at the beginning of class. We will have a Q&A session in preparation for the mid-term examination (Mon Feb 5) so bring your questions. After all your questions have been addressed, you may wish to review the Greenhouse Effect Module. Dr. EMT and Karin will also be available to assist you with the research for your paper / presentation project. The first part of Exercise 5 (5a: World Population) will be assigned and may be done at home.

Week 6 (Thursday Feb 8): Exercise 5: World Population (Part 2) The mid-term will be returned and we will review it. You will begin Exercise 5b and although it can be done from home (via the internet); we suggest that you practice with it in the lab in case you need assistance. You may discuss any issues regarding your Project Assignment with Dr. EMT.

Week 7 (Thursday Feb 15) Exercise 6: Energy Use and Conservation (Dr. EMT will be absent) Exercise 5 (both parts a and b) will be turned in at the beginning of the class. Exercise 6 will be assigned and you can begin to work on it in class. This is a 2-week exercise so that you will have more time to prepare for your presentation next week and work on your final paper. You may discuss any issues regarding your Project with me. Student presentations will be given in Weeks 8 and 9. We will discuss the details so that you will be prepared.

Week 8 (Thursday Feb 22) Half the class will present a 5 minute summary of their research project.

Week 9 (Thursday Mar 1) Exercise 6 (both parts) will be due at the beginning of the class. Half the class will present a 5 minute summary of their research project.

Week 10 (Thursday Mar 8) TBD

**A note regarding student presentations:** You are required to be present even if you are not presenting. A portion of the grade for the Project is for your participation and being absent will result in a reduction of credit from your presentation even though it was in the alternate week. Failure to show up for your presentation eliminates your grade (= 0) for that part of the exercise.

**Other notes:**

I will schedule a review session for the final (in consultation with the class).

Review suggestions to prepare for the Final Examination:

The Final is comprehensive but with a greater emphasis on the material since the mid-term (about 60% on new material and 40% on the material prior to mid-term).

The paper part of your research project is due at the beginning of lecture on Monday March 5th.