CCS 203: Climate Change: Science and Society
Study Guide for Test #3 on Climate Change Solutions
Fall 2009

1. Read/watch carefully the following chapters, articles, websites available through the on-line syllabus:
    - Socolow and Pacala, A Plan to Keep Carbon in Check, Scientific American (September, 2006).
    - Video: Stephen Pacala: Equitable Solutions to the Carbon and Climate Problem. Presentation at Stanford University (November 8, 2008).
    - Lester Brown, Stabilizing Climate: An Energy Efficiency Revolution Chapter 4 in Plan B 3.0 Mobilizing to Save Civilization (2009).
    - Lester Brown, Stabilizing Climate: Shifting to Renewable Energy Chapter 5 in Plan B 3.0 Mobilizing to Save Civilization (2009).
    - Carbon Footprint Calculator: http://www.clearskyclimatesolutions.com/calculator.html
    - Nicholas Stern, "Individuals, firms, communities: the power of example." Chapter 7 in The Global Deal (2009).

2. Read carefully and make sure you understand all the class lecture material.

3. Two of the seven test questions have already been given to you. The first question relates to your "elevator talk" and the second is about climate stabilization and the wedge solution.
    a. Elevator Talk
        i. Why do you believe climate change exists?
        ii. Why do you care about climate change (consider why you see it as a problem, and the framing you use)
        iii. What you think should be done about it (solutions)
        iv. How you want to participate in/engage with solutions
    b. Climate Stabilization and Wedge Solution
        i. What target should we set and why?
        ii. How many wedges will this require, and which ones do you think we should use? Fill in the Stabilization Triangle.

4. There will be no trick questions on the exam. I want you to be able to speak/write clearly and thoughtfully about various solutions to climate change. For example, there will be a question about energy efficiency. You will need to be prepared to write about why it is beneficial to address energy efficiency (e.g. it is the cheapest way to reduce emissions) and some mechanisms for raising energy efficiency (e.g. a smart grid).

5. Some questions will not have a "right" answer. We will be looking for your personal opinion and perspective, and you will be graded on your thoughtfulness and demonstration that you have considered the material presented and discussed during this section.

6. The exam will be two hours, from 1:10-3:10 pm on Thursday, December 17 in CHEM 123. Adam Moreno will be there to administer the exam. Nicky, unfortunately, cannot be there.

7. Good luck! If you have questions, please contact Nicky Phear at 243-6932 or nicky.phear@umontana.edu