Policy, Science, and the Environment
ENVS 5000
University of Colorado
Fall Semester 2011

Roger A. Pielke, Jr.

Course Homepage:
http://sciencepolicy.colorado.edu/students/envs_5000

Class time: Tuesdays 11:00-1:30
Class Location: GUGG 201E
Office Hours: Tuesdays, 9:00-10:45 and by appointment
OH Location: CIRES Center for Science and Technology Policy, 1333 Grandview Ave.
http://sciencepolicy.colorado.edu/center_info/find_us.html
Phone: 303-735-3940 (no voice mail)
email: pielke@colorado.edu
Purpose of the Course and Expectations

The course has two basic goals. First, to discuss issues arising at the intersection of policy, science and the environment that create challenges for effective decision making; and second, to introduce you to conceptual tools which are useful in thinking more effectively and responsibly about any problem of policy; and third, to develop and practice skills using the tools to analyze the various dimensions of an policy issue. For this semester, the course will focus mainly on the issue of climate change.

To meet these goals, the course focuses on two primary activities: (1) core readings and discussion; (2) periodic individual and shared assignments

Please note that five books are required reading for this course, other readings are either selected chapters or journal articles.

What you will get out of this class is proportional to what you put into the class. A good deal of the substantive material that we discuss will be brought to the class by you -- through the projects and our class discussions of the readings.

In order to get the most out of this course, you will need to come to class prepared, participate, and complete all of the assignments. I encourage you to use the office hours as an opportunity to discuss in more detail certain aspects of the course, share ideas on your case study, and to provide feedback on the course and the readings. The remainder of this syllabus details some of the important aspects of this course.

Course Texts

We will read each of the following two books. These have been ordered through the CU Bookstore, are available online at the usual retailers, and will also be placed on reserve in Norlin Library.


Plus 3 other books TBD in class

Optional:


**Requirements of the Course**

**Weekly Email One Pagers**

Every week you are expected to turn in a one-page essay. We have established a list-serv for the course: [envs5000@lists.Colorado.EDU](mailto:envs5000@lists.Colorado.EDU). Details will be provided in class. These should be submitted by the Sunday immediately preceding the relevant class. For some weeks I will suggest a question or theme to be addressed; for other weeks the topic will be open ended. The purpose of this exercise is to allow you an opportunity to discuss aspects of the readings, integrate other material with the week’s focus, or to raise questions about what was unclear or unanswered by the readings. A secondary purpose is to ensure that you have an opportunity to provide me with feedback on the class and your progress/satisfaction in the course.

**Individual and group assignments**

Periodically throughout the semester you will be responsible for individual and group assignments related to the week’s readings and topic. These will be discussed as the semester progresses. Some of the assignments will be associated with the semester-long term project.

**Grading**

Your grade will be determined as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Percentage</th>
<th>Submission Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly one pagers</td>
<td>25%</td>
<td>(no late submissions)</td>
</tr>
<tr>
<td>Individual and group assignments</td>
<td>40%</td>
<td>(periodically)</td>
</tr>
<tr>
<td>Final exam</td>
<td>35%</td>
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</tbody>
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University Syllabus Statements

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and www.Colorado.EDU/disabilityservices

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, {{insert your procedures here}} See full details at http://www.colorado.edu/policies/fac_relig.html

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See polices at

http://www.colorado.edu/policies/classbehavior.html and at
http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code

The University of Colorado at Boulder policy on Discrimination and Harassment (http://www.colorado.edu/policies/discrimination.html), the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships applies to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at http://www.colorado.edu/odh

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at http://www.colorado.edu/policies/honor.html and at http://www.colorado.edu/academics/honorcode/.
Tentative Schedule and Readings

Week 1: 8-23-11  Introductions
                Overview of the Course
                Schedule Matters
                First Assignment

Week 2: 8-30-11  Why We Disagree About Climate Change
                Read Hulme

Week 3: 9-6-11   In-Class Workshop
                Decarbonization assignment – The Climate Fix Chapters 1-4 plus:


                Emissions Reduction Targets, Environmental Research Letters.

                Pielke, RA (2011), An evaluation of the targets and timetables of proposed Australian

Week 4: 9-13-11  In class student presentations

Week 5: 9-20-11  Book Club #1

TBA

Week 6: 9-27-11  Facts and Opinions


http://www.sciencedirect.com/science?ob=MImg&imagekey=B6VFV-53CKB02-1-1&cdi=6020&user=918210&pii=S095937801100104X&origin=&coverDate=07%2F22%2F2011&sk=999999999&view=c&wchp=dGLzVlz-zSkWB&md5=0870eade908816fe9c24e1a9c541fb8&ie=/sdarticle.pdf


Broader theory:

Available at SSRN: http://ssrn.com/abstract=911646

http://pup.princeton.edu/sunstein/echo.pdf


**Week 7: 10-4-11**  **Guest Panel: Max Boykoff, Keith Kloor, and Tom Yulsman**

Media, climate change, science
Readings TBA

**Week 8: 10-11-11** **Book Club #2**
TBA

**Week 9: 10-18-11  Politics, Economics, Technology**

Chapters 1 and 2 in The Climate Fix

Additional readings on the so-called “wedges” and their critique TBA

**Week 10: 10-25-11  Geoengineering and technological fixes**

Guest: Prof. William Travis

Chapter 5 in The Climate Fix

Royal Society Geoengineering report

**Week 11: 11-1-11  Disasters**

Chapter 6, 7, 8 in The Climate Fix

**Week 12: 11-8-11  Policy Options**

The Climate Fix, Chapters 3, 4, 9


Additional readings will be provided related to the lead up to Durban

**Week 13: 11-15-11  Book club #3**

TBA

**Week 14: 11-22-11 NO CLASS – HAPPY THANKSGIVING**
Week 15: 11-29-11  Democracy and Expertise

What is/are the role(s) of the expert in a democracy?


Optional:


Week 16: 12-6-11  Course Wrap Up/Grad Student panel


ENVS Grad Student panel

Student papers


*Week 17: 12-12-11  4:30-7:00PM Final Exam*