

Climate Change and Policy (ESS11)

Course Time

Lectures: Tu, Th 8:00-9:20; PSCB140 Discussion: Fri. 1:00-1:50; ICF103

Text Book

George Philander, "Is the Temperature Rising?" (required)

The UN Framework Convention on Climate Change & Kyoto Protocol (2, posted)
The IPCC Third Assessment Report 2001: Summary for Policymakers (4, posted)

Grades

Homework (30%), 2 Hour-Examinations (20%+20%), Final (30%)

Homework

Will be posted on the class website and is due every Thursday









Course Description

This course develops (1) an understanding of the physical basis behind global climate change, (2) examines how human activities cause it, (3) looks to future rates and impacts of global warming, and (4) reviews the international conventions, protocols and scientific assessments of climate change.



Two Major Parts

(1) Understand physical basis behind global climate change

- Weeks 1-7 (instructed by Yu)
- Chapters 1-13 of Philander's Text Book
- Basic physics of the climate system (circulation, energy, water....)

(2) Discuss International Policy on Climate Change

- Weeks 8-10 (instructed by Prather)
- Discuss U.N. Framework Convention on Climate Change The Kyoto Protocols
 IPCC's Summaries for Policy Makers



What To Expect in the Exams?

Students will be tested on their basic knowledge of the science behind the Earth's climate system and current climate change, and also on their understanding of the current issues, including impacts, mitigation, and policy.



	Syllabus	
Week 1	te Our Plured Fragile or Robust? Light and Air	Ch1&2 Ch3
Week 2	Why the Peak of a Meuntain is Cold Capricious Glouds	Ch4 Ch3
Work 3	The Climate Topestry Weather, the Music of Our Spitere.	Chil
Work 4	The Cooper in Motion Word exami (Chapters 1-7)	ch8
Beek 5	El Niño, La Nino, and the Sauthern Oscillation Foint Sun Paradick / Nifty Suremer Is Warner?	Ch.9 Ch.10 & 71
Work 5	The Ozone Hole, a Cautionary Tale The Ozone Hole - continued	Chilz
Meek 7	Global Warning, Rinky Business West sowe (Chapters 6-13)	Ch.13
Meek I	The UN FCCC and the Kyoto Protocol bath docs IPOC Third Assessment Report	WG1 SPM
Meek T	Scientific basis for Climate Change Impacts, Adaptation & Valmerability in Clim.Ch.	WGI SPM WG2 SPM
Monk 15	Mitigation of Climete Change What are the key questions for policy makers?	WGS SPM Synthesis Report SPM
Week 11	Firms' ensure - Toward by March 23 6-17 a.m.	