

**GEOG 493 – Geography of Climate and Environmental Change**  
 Reading Material Schedule up to Spring Break

GCES: Global Change and the Earth System  
 GPC: Global Physical Climatology  
 C&P: Cotton and Pielke  
 - on reserve in Mather Library

Lecture	Date(s)	Subject	Readings
1	28 Jan	Earth climate system	Ch1 – GCES, Ch1 – GPC
2	30 Jan	Energy balance	Ch4 – GPC
3	1 Feb	Climate controls, Global and regional climates	Ch6.5 – GPC, Koppen paper (online)
4	4 Feb	Climate change time scales	Ch2 – GCES, Ch8 – GPC
5	6 Feb	Climate change linkages	Ch2 – GCES
6	8 Feb	Non-linearities and sudden changes	Ch2 – GCES <a href="http://www.ncdc.noaa.gov/paleo/abrupt/index.html">http://www.ncdc.noaa.gov/paleo/abrupt/index.html</a>
7	11 Feb	Feedback processes	Ch2 – GCES, Ch9 – GPC
8	13 Feb	GAIA discussion	GAIA papers (handout) Quiz
9, 10	15, 18 Feb	Humans as drivers of change	Ch4, 5 – C&P
11	20 Feb	Making sense of IPCC	IPCC summary report (online)
12	22 Feb	IPCC discussion	IPCC summary report (online) Quiz
13	25 Feb	Responses to change	Ch4 – GCES
14	27 Feb	Global warming – two sides to every story	Hansen and Linden papers (online)
15	1 Mar	Global warming discussion	Hansen and Linden papers (online) Quiz
16, 17	5, 7 Mar	Land degradation and land use	Ch6 – C&P, Ch3.3.1, 4.3 – GCES