

GC-170A-1 Introduction to Global Change – Fall 2012
TEXTBOOK READING ASSIGNMENTS & SELF-TEST / READINESS QUIZ SCHEDULE

Class Topic		SGC E-Text <i>The Science of Global Change – An Introduction</i>	DP Text <i>Dire Predictions</i>	Other e.g. Quick Links , Class Notes	Self Test + Readiness Quiz (RQ)	RQ Cutoff Date
1	Course Overview and Global Change Issues	Ch 1 (1-20)	Pt 1 (36-59)	Class Notes	<i>Syllabus & FAQ</i>	<i>practice</i>
2	Science & Being a Scientist			Pirsig Essay Class Notes		<i>practice</i>
3	Quantifying Global Change		(read 182 -183 on carbon footprints)	Class Notes		
4	Energy & Matter Overview	Chapter at end on <i>Atoms: The Nature of Things</i>		Appendix (Periodic Table)	1– Energy & Matter	Wed Aug 29
5	Electromagnetic Radiation & Spectrum	Ch 3 (36-39)		Class Notes	2 –Electro-magnetic Radiation & Spectrum	Wed Sep 5
6	The Radiation Laws	Ch 3 (39-44, 48-50)	Pt 1 (22-23)	Class Notes		
7	Atmospheric Structure & Composition	Ch 3 (44-48)	Pt 1 (26-29) (32-33)		3- Atmospheric Structure & Composition	Wed Sep 19
8	Thermodynamics & Energy Transformations			Class Notes	4- Thermo-dynamics	Wed Sep 26
9	Intro to Tree Rings			Class Notes Appendix		
10	The Global Energy Balance	Ch 3 (review 43-44) Ch 3 (48-52)	Pt 1 (64-65)	Class Notes Appendix		
11	Systems and Feedbacks	Ch 2 (21-35) Ch 3 (50-56)	Pt 1 (24-25)		5 – Systems & Feedbacks	Wed Oct 17
12	How Climate Works	Ch 4 (57-83)	Pt 1 (10-15)	Class Notes		
13	Natural Climatic Forcing	Ch 15 (295- 303)	Pt 1 (18 + 40) (60-63)	Class Notes	6-Climate & Natural Forcing	Wed Oct 24
14	Ozone Depletion in the Stratosphere	Ch 1 (review)	Pt 1 (30-31)	Class Notes	7 – Ozone Depletion	Wed Nov 7
15	Global Warming & Anthropogenic Forcing	Ch 15 (303-320)	Pt 1 (66 – 75) (94-97)	Class Notes	8 – Global Warming	Wed Nov 14
16	Climate Change: Impacts & Issues	Ch 16 (321–329)	Intro (6-9) Pt 1 (20-21) Pt 2 (77-105) Pt 3 (107-139)	IPCC –AR4 SPM ¹ Class Notes		
17	Climate Change: Adaptations & Solutions	Ch 16 (329-339)	Pt 4 (141-153) Pt 5 (155-197)	Appendix Class Notes		
	Global Change Wrap-Up	Re-read Ch 1 (1-17)		Appendix Climate Sci Literacy	9-Global Change Recap & Climate Science Literacy	Wed Dec 5

¹ **IPCC-AR4** *The Intergovernmental Panel on Climate Change 2007 Fourth Assessment Report Summaries for Policymaker (SPM): Synthesis, Working Groups I, II, & III*