

## GC-170A-1 Introduction to Global Change – Fall 2013

### 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., Class Notes or PDF links in the Weekly Checklist	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 &amp; FAQ</i>	<i>practice</i>
2	Science & Being a Scientist			Pirsig Essay Class Notes		<i>practice</i>
3	Quantifying Global Change	Graph Review: Box Fig 2-2 on p 28	(read 182 -183 on carbon footprints)	Class Notes		
4	Matter & Energy Overview	Last Ch in E-text on <i>Atoms: The Nature of Things</i>		Appendix II A (Periodic Table)	1– Energy & Matter	Thu Sep 5
5	Electromagnetic Radiation & Spectrum	Ch 3 ( 36-39)		Class Notes	2 –Electro- magnetic Radiation & Spectrum	Thu Sep 12
6	The Radiation Laws	Ch 3 (39-44, 48-50)	Pt 1 (22-23)	Class Notes		
7	Atmospheric Structure & Composition	Ch 3 (44-50)	Pt 1 (26-29) (32-33)		3- Atmospheric Structure & Composition	Tue Sep 24
8	Thermodynamics & Energy Transformations			Class Notes & Checklist links	4- Thermo- dynamics	Tue Oct 1
9	Intro to Tree Rings			Class Notes Appendix II C		
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 (21-27 only) Ch 3 (53-55)	Pt 1 (24-25)		5 – Systems & Feedbacks	Thu Oct 24
12	How Climate Works	Ch 4 (57-83)	Pt 1 (10-15)	Class Notes & Checklist links		
13	Natural Climatic Forcing	Ch 15 (295- top of 303)	Pt 1 (18 + 40) (60-63)	Class Notes	6-Climate & Natural Forcing	Thu Oct 31
14	Ozone Depletion in the Stratosphere	Ch 1 (review 9 -11)	Pt 1 (30-31)	Class Notes & Checklist link	7 – Ozone Depletion	Tue Nov 12
15	Global Warming & Anthropogenic Forcing	Ch 15 (303-320)	Pt 1 (66 – 75) (94-97)	Class Notes 7 Checklist Links	8 – Global Warming	Tue Nov 19
16	Climate Change: Impacts & Issues	Ch 16 (321—339)	Intro (6-9) Pt 1 ( 20-21) Pt 2 (77-105) Pt 3 (107-139) Pt 4 (141-153) Pt 5 (155-197)	Class Notes & Checklist links of IPCC documents		
	Global Change Wrap-Up	Re-read Ch 1 (1-17)		Appendix Climate Sci Literacy	9-Global Change Recap & Climate Science Literacy	Tue Dec 10