

GC-170A-1 Introduction to Global Change – Fall 2011
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 |
|-------------|---|---|---|--|--|----------------------|
| | Course Overview | | | | <i>Syllabus & FAQ</i> | <i>practice</i> |
| 1 | Global Change: The Science & the Issues | Ch 1 (1-20) | Pt 1 (36-59) | Class Notes | | <i>practice</i> |
| 2 | On Science & Being a Scientist | | | Pirsig Essay Class Notes | <i>Global Change</i> | |
| 3 | Quantifying Global Change | | | Class Notes | | |
| 4 | Energy & Matter Overview | Chapter on <i>Atoms: The Nature of Things</i> | | Appendix II (Periodic Table) | 1– Energy & Matter | Fri Sep 2 |
| 5 | Electromagnetic Radiation & Spectrum | Ch 3 (36-39) | | Class Notes | 2 –Electro- magnetic Radiation & Spectrum | Fri Sep 9 |
| 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 21 |
| 8 | Thermodynamics & Energy Transformations | | | Class Notes | 4- Thermo- dynamics | Wed Sep 28 |
| | Tree Rings | | | Appendix II Class Notes | | |
| 9 | The Global Energy Balance | Ch 3 (review 43-44) Ch 3 (48-52) | Pt 1 (64-65) | Appendix II Class Notes | | |
| 10 | Systems and Feedbacks | Ch 2 (21-35) Ch 3 (50-56) | Pt 1 (24-25) | | 5 – Systems & Feedbacks | Mon Oct 17 |
| 11 | How Climate Works | Ch 4 (57-83) | Pt 1 (10-15) | Class Notes | | |
| 12 | Natural Climatic Forcing | Ch 15 (295- 303) | Pt 1 (18 + 40) (60-63) | Class Notes | 6-Climate & Natural Forcing | Mon Oct 24 |
| 13 | Ozone Depletion in the Stratosphere | Ch 1 (review) | Pt 1 (30-31) | Class Notes | 7 – Ozone Depletion | Wed Nov 2 |
| 14 | Global Warming & Anthropogenic Forcing | Ch 15 (303-320) | Pt 1 (66 – 75) (94-97) | Class Notes | 8 – Global Warming | Wed Nov 9 |
| 15 | 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 | | |
| 16 | Climate Change: Adaptations & Solutions | Ch 16 (329-339) | Pt 4 (141-153) Pt 5 (155-197) | Appendix II Class Notes | | |
| | Global Change Wrap-Up | Re-read Ch 1 (1-17) | | Appendix I Climate Sci Literacy | 9-Global Change Recap & Climate Science Literacy | Wed Dec 7 |

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