

GEOS 3350

Global Change

Syllabus, Spring 2006

Outline of Topics

Part 1: Earth Systems

- Introduction; Matter and Energy
- Solar Energy
- Water Cycle
- Oceans and Atmosphere
- Plate Tectonics
- Carbon Cycle
- Review

1st Exam

Part 2: The Biosphere

- Terrestrial Systems
- Aquatic Systems
- Origin and Early Evolution of Life
- Later Evolutionary Events
- Gaia and Daisyworld
- Mass Extinctions (Alvarez book to be discussed)
- Review

2nd Exam

Part 3: Climate Change and Human Impacts

- El Niño
- Ozone
- Past Climates
- Astronomical Cyclicality
- Greenhouse Effect
- Historical Climate
- Future Prospects
- Pollution
- Review

rd Exam

Click on [Grading and References](#) to view grading policy and list of references.