472

Planetary Pathology:

Scientific Background to Global Environmental Problems

Spring 1995

Abbreviated Syllabus, with Approximate Dates

Week Beginning		Topic
Jan.	22	Overview: Biography of a Planet; Continental Drift & Carbon Recycling
	30	Review of Elementary Chemistry
Feb.	6	Review of Elementary Chemistry
	13	Radiation; Energy Balance & Planetary Surface Temperatures
	20	Meteorology; Planetary Atmospheric Histories; Molecular Radiation
	27	Greenhouse Warming & Climate Migration
Mar.	6	Stratospheric Ozone Depletion; Biological Effects
	13	SPRING BREAK
	20	Elementary Organic Chemistry
	27	Elementary Biochemistry & Cellular Biology
Apr.	3	Toxic Substances in the Environment
	10	Toxic Substances in the Environment
	17	Photosynthesis. Soil Chemistry & Microbiology; Waste Biodegradation. Acid Precipitation.
	24	Acid Precipitation: Effects on Lakes, Forests, Crops.
May	1	Plate Tectonics, Paleoclimates; Evolution, Biodiversity & Extinction of Species
	8	Review

The supplementary text (Brown) will cover only a small fraction of the subject matter of the course. Since no text is available which covers the necessary material, you will be provided with (voluminous!) class handouts as the semester progresses.