Ch 1: Everything!

- Environment
- Environmental science
- Natural resources (renewable/nonrenewable)
- Human population (agricultural & industrial revolutions)
- Thomas Malthus
- Ehrlich's "*Population Bomb*"
- Garret Hardin's "*The Tragedy of the Commons*"
- Wackernagel & Rees' ecological footprint
- Easter Island (pages 8-9)
- Interdisciplinary
- Environmentalism
- Science
- Carl Sagan
- Scientific Method (6 steps)
- Hypothesis
- Peer review
- Theory
- Paradigm
- Environmental ethics
- Anthropocentric
- Biocentric
- Ecocentric
- John Muir (*preservation ethic*)
- Gifford Pinchot (*conservation ethic*)
- Aldo Leopold (*land ethic*)
- Ecofeminism
- Environmental justice
- Sustainability

Ch 2: Everything *except* "The Environmental Policy Process" (don't forget the video re: Tijuana River watershed)

- Case study
- Watershed
- Maquiladora
- Economics
- Economies
- Ecosystem services
- Adam Smith (classical economics)
- External costs
- Ecological economists
- Steady-state economics
- Environmental economists
- Robert Costanza
- Market failure
- US Environmental Policy
- 3-waves
- Rachel Carson "*Silent Spring*"
- Cuyahoga River
- Santa Barbara oil spill
- NEPA / EPA / EIS
- CEQA / EIR
- President Nixon
- Command-and-control
- Subsidy
- Green taxes
- Permit trading
- Ecolabeling

Ch 3: Pages 49-52;
Pages 54-55 ("The Science Behind the Story");
Pages 63-69 (know biogeochemical cycles).
(*skip sections entitled: "chemistry"," energy fundamentals" & "ecosystems")*

- Dead zone
- Hypoxia
- Eutrophication
- System / ecosystem
- Positive & negative feedback loops
- Frontline episode: "*Poisoned Waters*"
- Biogeochemical (nutrient) cycles *how have we altered them?*
- Carbon cycle
- Nitrogen cycle
- Hydrologic cycle

Ch 4: Pages 73-75 (case study, evolution, natural selection, Darwin & Wallace, adaptive trait/adaptation, mutation)
Pages 78-79 (extinction, mass extinction events)
Page 81 (specialists, small population – as relates to vulnerability to extinction. Think: Golden Toad)
Pages 88-89 ("The Science Behind the Story")

- Golden Toad (case study)
- Evolution
- Natural selection
- Charles Darwin
- Alfred Russel Wallace
- Adaptive trait / adaptation
- Mutation
- Extinction
- Mass extinction events
- Specialists
- Population size (genetic variability)
- "*The Science Behind the Story*"

Ch 5: Page 112 (chaparral, mediterranean)

Essay: Remember the "Student Learning Outcome" for the class (as described on the syllabus)?

Upon completion of this course, the student will have demonstrated the ability to critically evaluate arguments regarding environmental issues.

Just as Annie Leonard did in "*The Story of Stuff*", you will be asked to **take a position** with respect to an environmental issue and support your position with **evidence**.

Evidence must be drawn from material you learned in this class (remember the main themes we've addressed this semester: *atmosphere/air quality, global climate, energy, waste management / mineral resources, water* (fresh water & oceans), *environmental health & toxicology, soil/agriculture/food, human population, economics/policy*).