

Biol. 221
Spring 2012
Material covered on Exam I

All material presented in lecture

Major topics covered:

- What is ecology?
- The process of ecological investigation
 - Case study: amphibian decline
- Major ecological lessons
- What is an ecosystem?
- How we study ecosystems.
- Earth as an ecosystem
 - Energy
 - The planetary energy budget
 - Planetary energy transfers
 - Atmospheric circulation
 - Ocean structure & circulation
 - Effects of atmospheric & ocean circulation
 - Orographic effect
 - El Nino

Online lecture materials:

Lecture material 1-6

Other online materials (Miscellaneous page of web site):

- Planetary Energy Budget
- Atlantic heat conveyor slows (and update)
- El Nino web page – “What is El Nino”

Articles:

Articles 1-3 & associated study questions

Textbook & Video Overviews:

- Chapter 1
 - Study Questions 1-2, & 4-7

- Chapter 2
 - Study Questions 1-10