

Natural Systems 1, Fall '02 Exam 1 Review

Be prepared to understand concepts. Be able to work earth-moon-sun scale model problems. Be able to calculate a mean and standard deviation, range, etc. Know what a t-test is, how to calculate a t-value and how a t-test is used (think Frisbees, but we may ask you to interpret a statistical result in an ecological context). Know how to interpret a p value.

All exams will have these questions in common (1) statistical calculations and interpretation; and (2) the moon-lab. The rest of the exam will be section (instructor specific).

So,.....take a look at:

Readings:

- The Moon: Rosetta Stone
- Global effects on Coral Reefs
- A Future for Coral Reefs
- Planet of Weeds
- Mass Extinctions: Lessons from the past
- Recent Mass Invasions of the N. Am Great Lakes
- Biotic Homogenization

Text: Raup, Chapters 1-8

Lectures: Be sure to review lecture notes from Professors Gorchov, Negron-Ortiz, Nicholson

more specific (Negron-Ortiz):

- Extinction: the Big Five & the present 'sixth mass extinction' –make connections
- Mass Extinctions: Lessons from the past
- Planet of Weeds
- Biotic Homogenization
- *Lecture notes
- Gorchov- honeysuckle
- Biodiversity
- Environmental degradation
- Hypothesis(es) testing; sampling; read and understand: Measurement & statistical methods (readings); lectures notes.