

ECOLOGY AND EVOLUTION (BI OL 3250A,B,C) -- Fall Semester 2014

Instructor: Dr. Brad Bergstrom, Offc. 1107 (-
Biol. Dept. -

5770) bergstrm@valdosta.edu

5759

Office Hours: M W 11, other times by appointment.

C-M3-13 (W)Tj 0>>BSmith, R.L.DC 0.002 ,c -40.

Tentative Laboratory/Field Schedule

Assignment (pts.)

- Week 1 -- Intro to Inland Coastal Plain Ecosystems. Hypotheses (10)
(**READ Ecol. pp. 12- 17; Skim Ch. 28- 31 + Appendix A for ideas**)
- 2 -- Phylogenetic Rules and Reconstruction (also, set up Bacterial Selection experiment) Assignment (15)
- 3 -- Population Genetics Computer Simulations Assignment/Paper (15)
- 4 -- TBA
- 5 -- Bacterial Selection Assignment (15)
- 6 -- Ecological Transect sampling I TBA
- 7 -- Human Demography Life Table (20)
- 8 -- Mark- Recapture and Pop. Estimation Simulation Report (20)

Weeks 8/9:

**FIELDTRIP TO SAPELO ISLAND (Fri- Sun, choose: Oct 17- 19 or Oct 24- 26) (25)

- 9 -- No labs this week
- 10 -- Community Ecology Field Experiment I
- 11 -- Analysis of Sapelo experimental data Scientific Paper (35)
- 12 -- Community Ecology Field Experiment II
- 13 -- Community Ecology Field Experiment III
- 14 -- Community Ecology Data Analysis Paper Scientific (45)



Ecology (BIOL 3250) – Fall 2014 Expectations of Students

1. The text chapters will serve as your introduction and background to the lecture topics. Therefore, read them carefully, preferably before the lecture; otherwise, you may find that you are lost! Success in this course demands that you attend every day and come to class prepared.
2. On weeks that I inform you we will be in the field, be prepared to leave for the field promptly at lab time--this includes APPROPRIATE ATTIRE. We will be encountering briars, chiggers, fire ants, ticks, mosquitoes, and possibly snakes; you are responsible for your own protection against these as well as the climatic elements (I can't control either). You may not make up missed labs; I will deduct points from your grade for any lab absences beyond one.
3. An important part of this course is the writing of laboratory reports and scientific papers. We will be collecting data in the field and lab as a group. In some cases, we will analyze these data as a group. You will be receiving written and verbal instructions as to how to prepare a scientific

