

Biol 3250, Spring 2012: Schedule of topics

Week 1 (08, 10 Jan)

08 Jan: Introduction to ecology and evolution; overview of course.

10 Jan: Science and religion "conflict".

Lab Week 1: Natural history and natural history notes.

Week 2 (15, 17 Jan)

15 Jan: History of evolutionary biology (from the Greeks to the geeks).

17 Jan: Macroevolution I (phylogeny and "tree-thinking").

Lab Week 2: Forest diversity, part I (South Forty)

Week 3 (22, 24 Jan)

22 Jan: Molecular evolution (sources of genetic variation, genetic distance, molecular clocks).

24 Jan: Microevolution I (one locus Hardy-Weinberg).

Lab Week 3: Methods of phylogenetic reconstruction.

Week 4 (29, 31 Jan)

29 Jan: Microevolution II (one locus HW review; two locus Hardy-Weinberg).

31 Jan: Microevolution III (two locus HW review; "inbreeding").

Lab Week 4: Microsatellite DNA analysis I.

Week 5 (05, 07 Feb)

05 Sept: Microevolution IV (assortative mating/disassortative mating).

07 Sept: Review Session I.

Lab Week 5: Microsatellite DNA analysis II.

Week 11 (19,

Week 16 (23, 25 Apr)

23 Apr: Review session III.

25 Apr: **Midterm exam III.**

Lab Week 15: No lab.

Week 18 (02 May)

02 May: **Final Exam (10:15am-12:15pm).**