

Suggested Lecture/Lab Topics for Bio 102

<u>Week</u>	<u>Lecture</u>	<u>Lab</u>
1 8/30	1. What is evolution & evidence for it; biodiversity (MDR/JW) 2. Evidence for Evolution (JW)	None
2 9/6	3. Genetics 1—Mutation, Variation, Mitosis, Meiosis (JW) 4. Genetics 2—Mendelian Inheritance, Single Locus (JW)	Evidence. Evol/Fly lab 1
3 9/13	5. Genetics 3—Mendelian Inheritance, Two Loci, Linkage (JW) 6. Genetics 4—Linkage with Multiple Loci, Mapping (JW)	Mitosis-meiosis beads/ Mendelian genetics
4 9/20	7. Genetics 5—Using Mapping to Find Genes, Introduction to Quantitative Trait Genetics (JW) 8. Genetics 6—Finding Genes Underlying Complex Traits (JW)	Quantitative genetics 1
5 9/27	9. Common Gardens, Mutation Pressure, H-W (MDR) 10. Natural Selection 1 (MDR)	Quan. genetics follow up/ Transmission genetics
6 10/4	Exam 1 (through lecture 8) 11. Natural Selection 2 (MDR)	Phylogeny 1
7 10/11	Fall Break 12. Genetic Drift 1 (MDR)	None
8 10/18	13. Genetic Drift 2 (MDR) 14. Altruism and Kin Selection (MDR)	Population genetics 1
9 10/25	15. Natural selection on quantitative traits (MDR) 16. Sex and Sexual Selection (MDR)	Selection in yeast
10 11/1	17. Molecular Evolution 1 (MDR) 18. Molecular Evolution 2 (MDR)	Population genetics 2
11 11/8	Exam 2 (lectures 9 - 16) 19. Genome Evolution (MDR)	Fly lab 2
12 11/15	20. Genetic Divergence of Populations: Selection, Drift, and Migration (JW) 21. Human Evolution: Signatures of Selection in Genome Variation (JW)	Quantitative genetics 2
13 11/22	22. Using Genome Variation to Understand Human Disease (JW) Thanksgiving	None
14 11/29	23. Speciation (JW) 24. Phylogenetics and Macroevolution (MDR)	Phylogeny 2
15 12/6	25. Phylogenetics and Macroevolution (MDR) Exam 3 (lectures 17 – 24)	Fly lab 2 follow up/ Sel'n in yeast proj discuss'n