

Biology 352: Lecture Schedule*Spring 2007*

Date	Topic	Readings: Pierce 2005	Stearns and Hoekstra 2005
Jan 18	Introduction to genetics, DNA structure	Ch. 1, 275-280, 412-414 (review Ch. 2)	15-17, 507-510
Jan 23	Mutations: the source of variation	473-479, 482, 235-253	515-516
Jan 25	Mendel, monohybrid cross, probability theory, other experimental crosses	47-58	510-515
Jan 30	Incomplete dominance, independent assortment, dihybrid cross	58-63	
Feb 1	Sex determination, sex linked genes	Ch. 4	
Feb 6	Modifications to Mendelian patterns	102-112, 115-117	
Feb 8	Pedigree analysis	132-140, 156-159	
Feb 13	Linkage and recombination in eukaryotes	161-171, 173-175	
Feb 15	The 3-point testcross	175-179	
Feb 20	EXAM I		
Feb 22	Quantifying genetic variation	676-680, 697-701	105-108, 516-517
Feb 27	Random mating and the Hardy-Weinberg principle	680-683	517-518
Mar 1	Assortative mating and inbreeding	683-686	
Mar 6	Mutation and migration	686-688	100-105
Mar 8	Random genetic drift	689-692	59-66
Mar 13	Introduction to natural selection	692-694	76-83, 85
Mar 15	Models of natural selection	695-697, 716-720	114-116
Mar 20	Quantitative genetics I	642-648	86-90
Mar 22	Quantitative genetics II and wrap-up	655-662	90-94
Mar 26	SPRING BREAK		
April 3	EXAM II		
April 5	Adaptive evolution		1-17, 496, Ch. 2
April 10	Phylogeny and systematics		Ch 13
April 12	Phylogeny and biogeography		332-337
April 17	Selection		85-86, Ch 11
April 19	Kinds, levels of sorting and selection		497-498
April 24	Species concepts and speciation I		Ch. 12, 337-342
April 26	Interaction among evolutionary forces Development and evolution I		Ch. 6
May 1	Development and evolution II		Ch. 6, 498-499
May 3	Biological revolutions, radiations, and extinctions. Wrap-up.		Ch. 16, 431-437
MAY 10	FINAL EXAM 10:30-12:30		