

Date	Lecture Topic	Readings
1.9 (W)	Welcome to Molecular Biology	
1.11 (F)	Mendel to Molecules: A Brief History	Ch. 1 pp. 5-18, summary p.39
1.14 (M)	Genes to Protein: The Central Dogma	Ch. 2 pp. 20-27, 32, 36-37 End of chapter (Ch.3-5) summaries
1.16 (W)	DNA Structure	Ch. 6 pp. 102-127
1.18 (F)	“ “	
1.21 (M)	No Class - MLK Day	
1.23 (W)	DNA Topology	Ch. 7 pp. 157-161, 169-170, 135-144
1.25 (F)	Methods of Molecular Biology	Ch. 20 pp. 739-757
1.28 (M)	“ “	
1.30 (W)	“ “	
2.1 (F)	DNA Replication	Ch. 8 pp. 198-199, 202-212, 214-215
2.4 (M)	“ “	Ch. 8 pp. 196-198, Fig. 3-22, 246-251
2.6 (W)	<b>Exam I</b>	
2.8 (F)	DNA Mutagenesis and Repair	Ch. 9 pp. 257-274
2.11 (M)	DNA Recombination	Ch. 10 pp. 283-284, 303-305, Box 10-2 Ch. 21 pp. 812-817
2.13 (W)	Transposition of DNA	Ch. 11 pp. 334, 337-342
2.15 (F)	“ “	Ch. 11 pp. 347-348,352-354
2.18 (M)	RNA Structure	Ch. 6 pp. 127-133
2.20 (W)	Transcription in Prokaryotes	Ch. 12 pp. 377-387, Box 12-1, 390-396
2.22 (F)	Transcription in Eukaryotes	Ch. 12 pp. 396-410
2.25 (M)	RNA Splicing and Editing	Ch. 13 pp. 415-418, Box 13-1, 420-427, 432-433, Box 13.4, 448-449, Box 13.5, 452-453
2.27 (W)	“ “	
2.29 (F)	<b>Exam II</b>	
3.10 (M)	Translation	Ch. 14 pp. 457-484
3.12 (W)	“ “	
3.14 (F)	Protein Biosynthesis	Ch. 14 pp. 514-516
3.17 (M)	Antibiotics	Ch. 14 Box 14.5, CDC Handout
3.19 (W)	Generation of Antibodies	Ch. 11 pp. 365-369. Ch. 9 Box 9.3
3.21 (F)	Gene Expression in Prokaryotes	Ch. 16 pp. 547-556, 563, Box 16.2
3.24 (M)	“ “	
3.26 (W)	Gene Expression in Eukaryotes	Ch. 17 pp. 589-590, 620, 624-625
3.28 (F)	“ “	
3.31 (M)	Regulatory RNAs, RNAi, X-inactivation	Ch. 18 Box 18.1, Box 18.2, pp. 641-643,
4.2 (W)	“ “	Fig. 18.8, 654-655, 657-658, Box 17.6
4.4 (F)	<b>Exam III</b>	
4.7 (M)	Microarrays	Ch. 19 pp. 662
4.9 (W)	Real-time PCR and reporter genes	
4.11 (F)	Model Organisms	Ch. 21 pp. 783, 795-806, 812-817
4.14 (M)	Genome Sequencing Projects	Ch. 21 757-764; Ch.20 703-709, 711-715
4.16 (W)	“ “	HGP Handout
4.18 (F)	Transgenic Organisms	Papers posted on website
4.21 (M)	Forensics	“ “
4.23 (W)	Catch-up, Review, Discussion	Detailed Study Guide
4.30 (W)	<b>Final Exam 8:00 am - 11:00 am</b>	