

LS3 Section 2, Fall 2007
Introduction to Molecular Biology
Professor Smale

<u>Date</u>	<u>Topic</u>	<u>Assigned Reading</u>
9/27	1. Chemical Foundations	Chapt. 1, pp. 1-26 (Skim) Chapt. 2, pp. 29-40, 50-53
10/2	2. Amino Acids, Proteins, and Enzymes	Chapt. 3, pp. 59-76 (incl. Fig. 3-18) Chapt. 3, pp. 82-86
10/4	3. Antibodies, Protein Techniques	Chapt. 3, pp. 86-98
10/9	4. Nucleic Acids, Transcription, RNA Processing, Capping, and Polyadenylation	Chapt. 2, pp. 40-41 Chapt. 4, pp. 100-114
10/11	5. RNA and the Genetic Code	Chapt. 4, pp. 119-125
10/16	6. Translation	Chapt. 4, pp. 125-131
10/18	7. Radioisotopes and DNA Replication	Chapt. 4, pp. 131-137
10/22	Midterm 1, 5PM (Covers Lectures 1-6)	
10/23	8. DNA Replication and Viruses	No assigned reading
10/25	9. Viruses	Chapt. 4, pp. 137-144 + Handout
10/30	10. Recombinant DNA	Chapt. 9, pp. 361-364
11/1	11. Libraries	Chapt. 9, pp. 364-370
11/6	12. Library Screening, DNA Analysis, Sequencing	Chapt. 9, pp. 371-374
11/8	13. PCR, Blotting, Protein Expression	Chapt. 9, pp. 374-380
11/13	14. Genomics, Microarrays	Chapt. 9, pp. 380-387
11/14	Midterm 2, 5PM (Covers Lectures 7-12)	
11/15	15. Inactivating Gene Function	Chapt. 9, pp. 387-393
11/20	16. Prokaryotic Transcription	Chapt. 4, pp. 115-119
11/27	17. Eukaryotic Transcription	Chapt. 11, pp. 447-454
12/9	18. Eukaryotic Transcription	Chapt. 11, pp. 454-463
12/4	19. Eukaryotic Transcription and RNA Splicing	TBD
12/6	20. RNA Splicing and Review	TBD
12/12	Final Exam 6:30-9:30PM (Covers Lectures 13-20 Only, But Will Apply Concepts from Earlier Lectures).	