BIMM 100 - Molecular Biology, Winter 2016, Lauberth - Schedule

Date (**)	Lecture #	Planned Topic	Lodish (***) (Chapter: Pages)
Genes & Genomes			
Jan 5	1 a, b	Overview, Central Dogma, DNA	4:116-119; 2: 36-37;
Jan 7	2	DNA Replication	4: 145-151
Jan 12	3	Telomeres DNA repair	6: 273-275 4: 151-159
Jan 14	4	Genes & Genomes Sequencing	6: 223-231 5:195-197
Jan 19	5	Noncoding & Mobile DNA PCR	6: 231-245 5: 192-193
Jan 21	6	Recombinant DNA Gene Inactivation	5: 182-198, 201-206 5: 212-216
Basic Mechanisms of Gene Expression			
Jan 26	7	Transcription Northern blotting	4: 124-127; 7: 290-297 5: 198
Jan 28	8	Eukaryotic RNA Pol I, II, III,	7: 297-305, 336-339
Feb 2	9	rRNA, tRNA processing mRNA capping, polyadenylation	8: 384-391 8: 345-349, 358-360
Feb 4		**Midterm (in class; covers lectures 1-8)**	
Feb 9	10	pre-mRNA splicing Nuclear export	8: 351-356 8: 365-368
Feb 11	11	Translation mRNA turnover	4: 131-144 8: 375-376
Regulation of Gene Expression			
Feb 16	12	Transcriptional Regulation	7: 282-285, 7: 288-290, 302-305 5: 199-201
Feb 18	13	Transcription Activators	7: 305-314, 320-322 6: 256-266
Feb 23	14	Chromatin Structure & Regulation	7: 315-320, 323-333 7: 297; 258-260
Feb 25	15	Histone Variants DNA Methylation, Chromatin	6: 258-261; 7:327-328

		Remodeling	
Mar 1	16	Epigenetic Gene Regulation	7: 330-331
Mar 3	17	Epigenetic Therapeutic Targeting	
Mar 6	18	Special Topics I	
Mar 10	19	Special Topics II	
March 15		FINAL EXAM	8:00-11:00 AM

Problem sets #1-7 will be posted on Wednesday mornings each week.

(**) Classes are on Tuesdays and Thursdays from 9:00-10:50 AM in Peterson Hall 108

(***) Textbook: “Molecular Cell Biology,: 7th edition, Lodish et al., 2012