

Date	Session	Instructor	Topic	Reading (MBoC)
			Nucleic Acids	
8/21	1	Akula/Geyer	Introduction	Chapter 1
8/23	2	Garcia	DNA & Chromosomes	Chapter 4
8/25	3	Garcia	Organization of Prokaryotic & Eukaryotic Genomes	Chapter 4
8/28	4	Garcia	DNA replication – Prokaryotes & Eukaryotes	Chapter 5
8/30	5	Motaleb	DNA Repair & Recombination	Chapter 5
9/1	6	Lemasson	Principles of Transcription	Chapter 5
9/4			LABOR DAY (NO CLASS)	
9/6	7	Motaleb	Transcription initiation I – Prokaryotes	Chapter 6
9/8	8	Lemasson	Transcription initiation II – Eukaryotes	Chapter 6
9/11	9	Lemasson	Post-transcriptional Events and Anatomy of mRNAs	Chapter 6
9/13	10		Review Session – Exam 1	
9/15	11		Exam 1	
			Transcription Regulation, Epigenetics, Genetics, & Recombinant DNA	
9/18	12	Motaleb	Control over Gene Transcription I – Prokaryotes	Chapter 6
9/20	13	Geyer	Control over Gene Transcription II – Eukaryotes	Chapter 6
9/22	14	Geyer	Epigenetics I – DNA Methylation	Chapter 7
9/25	15	Geyer	Epigenetics II – Histone Modifications	Chapter 7
9/27	16	Geyer	Principles of Genetics I	
9/29	17	Geyer	Principles of Genetics II	
10/2	18	Ratliff	Recombinant DNA Technology I	Chapter 8
10/4	19	Ratliff	Recombinant DNA Technology II	Chapter 8
10/6	20		Review Session – Exam 2	
10/9			COLUMBUS DAY (NO CLASS)	
10/11	21		Exam 2	
			Protein Synthesis, Cell Signaling, & Cell Cycle	
10/13	22	Geyer	Translation I – Initiation	Chapter 6
10/16	23	Geyer	Translation II – Elongation & Termination	Chapter 6
10/18	24	Didonna	Protein Sorting & Degradation	Chapter 12
10/20	25	Akula	Principles of Cell Signaling	Chapter 15
10/23	26	Geyer	Nuclear Hormone Receptors	Chapter 15
10/25	27	Meher	Signaling through Extracellular Receptors	Chapter 15
10/27	28	Akula	Cell Cycle I	Chapter 18
10/30	29	Akula	Cell Cycle II	Chapter 18
11/1	30		Review Session – Exam 3	
11/3	31		Exam 3	
			Cellular Organization & Death	
11/6	32	Didonna	Membrane Structure	Chapter 10
11/8	33	Litwa	Membrane Transport	Chapter 11
11/10	34	Litwa	Cellular Transport	Chapter 12
11/13	35	Didonna	Intracellular Compartments I	Chapter 12
11/15	36	Didonna	Intracellular Compartments II	Chapter 12
11/17	37	Litwa	Cytoskeleton	Chapter 16
11/20	38	Meher	Cell Death	Chapter 18
11/22			THANKSGIVING DAY (no class)	
11/24			THANKSGIVING DAY (no class)	
11/27	39	Meher	The Innate and Adaptive immune Systems	Chapter 24
11/29	40		Review Session – Exam 4	
12/1	41		Exam 4	