

# LS3.1 2008 Introduction to Molecular Biology

## Professor David Campbell

Monday, Wednesday & Friday, 2:00-2:50 PM, LaKretz 110

Chapter(s)

March 31	1	Introduction, Model Systems	
April 22		DNA as Genetic Material	Ch 1
April 43		Structure of DNA	Ch 2
<b>Week 2</b>		<b>Lab: Pipetting and Chemistry Quiz</b>	
April 74		Chromatin & RNA structure	Ch 3, 4
April 95		RNA code	Ch 4, 5
April 11	6	Viruses	Ch 3
April 14	7	Protein structure	Ch 5
April 16	8	Protein structure	Ch 5
April 18	9	Protein Function	Ch 5
<b>Week 4</b>		<b>Lab: SDS-PAGE</b>	
April 21	10	Protein Analysis	Ch 8 (box8.1)
April 22		<b>Midterm 1 - 5-6:50 pm (covers lectures 1-9)</b>	
April 23	11	DNA Replication	Ch 6
April 25	12	DNA Replication/Telomere	Ch 6
April 28	13	DNA Repair	Ch 7
April 30	14	Homologous Recombination	Ch 7
May 2	15	Recombinant DNA Techniques	Ch 8
<b>Week 6</b>		<b>Lab: <math>\beta</math>-galactosidase activity</b>	
May 5	16	Recombinant DNA Techniques	Ch 8
May 7	17	Recombinant DNA Techniques	Ch 8
May 9	18	Tools for Gene Expression	Ch 9
May 12	19	Transcription in Eubacteria	Ch 10
May 13		<b>Midterm 2 - 5-6:50 pm (covers lectures 10-18)</b>	
May 14	20	Transcription in Eubacteria	Ch 10
May 16	21	Transcription in Eukaryotes	Ch 11
May 19	22	Transcription in Eukaryotes	Ch 11
May 21	23	RNA splicing	Ch 13
May 23	24	RNA control	Ch 13
<b>Week 9</b>		<b>Lab: Plasmid prep &amp; bacteria ID</b>	
May 26		<b>Memorial Day holiday - no lecture</b>	
May 28	25	Translation	Ch 14
May 30	26	Transgenic Animals	Ch 15
<b>Week 10</b>		<b>Lab: Restriction Enzyme &amp; Bioinformatics</b>	
June 2	27	Review of MT1 material	Ch 1-5
June 4	28	Review of MT2 material	Ch 6-9
June 6	29		
June 10		<b>Final Exam - 6:30-9:30 pm (covers lectures 20-29, Lab Exam and include some material from lectures 1-19)</b>	

