

Biology 341
Introduction to Genetics
Fall Term, 2004

Tentative Syllabus

Week	Date	Topic	Chapters	Suggested Problems
1	27 Sept	Introduction; Chromosomes and mitosis	1	1, 3, 8, 10, 14, 15, 17,
	29 Sept	Meiosis	1	19, 20
	1 Oct	Mendelian genetics	2	4, 6, 10, 16, 26
2	4 Oct	Mendelian genetics	2	
	6 Oct	Chromosome theory	3	3, 4, 5, 8, 10, 15, 17,
	8 Oct	Chromosome theory	3	21, 23
3	11 Oct	Extensions of Mendelian genetics	4	6, 8, 10, 1 20
	13 Oct	Gene mapping in eukaryotes	5	4, 6, 7, 9, 16
	15 Oct	Gene mapping in eukaryotes	5	
4	18 Oct	Gene/chromosome mutations	21	1, 2, 4, 6, 7, 8, 10, 12,
	20 Oct	Chromosome mutations	21	17, 24
	22 Oct	First exam		
5	25 Oct	Chromosome mutations	21	
	27 Oct	DNA: The genetic material	8	2, 8, 9, 11, 14, 15, 22,
	29 Oct	DNA: The genetic material	8	28
6	1 Nov	DNA: Organization in chromosomes	8	
	3 Nov	DNA replication	9	5, 20
	5 Nov	Gene Control of proteins	10	2, 4, 14, 22
7	8 Nov	Gene expression: Transcription	11	
	10 Nov	Second exam		
	12 Nov	Gene expression: Translation	12	
8	15 Nov	Gene expression: Translation	12	
	17 Nov	Gene fine structure (pages 137-141)	6	
	19 Nov	Cloning and manipulation of DNA	13	
9	22 Nov	Cloning and manipulation of DNA	13	
	24 Nov	lac operon (pages (pages 323 - 330)	16	
	26 Nov	no class		
10	29 Dec	Eukaryotic gene regulation	17	
	1 Dec	Eukaryotic gene regulation	17	
	3 Dec	review		

Lectures M,W,F 1015-1105 Cramer Hall Rm 71

Recitations: Wednesday 1400-1550 CH 283
 Wednesday 1700-1850 PCAT 130
 Thursday 0800 - 0950 CH 383
 Thursday 1400-1550 LH 249

FINAL EXAMINATION: 8 December 10:15 - 12:05