7.03 Spring 2011 Schedule

	Date	Lec.	Topic		Problem Set
W	2/2	1	Physical Structure of the Gene	CK	
F	2/4	2	Gene Function and the Complementation Test	CK	
M	2/7	3	Mendelian Genetics	CK	
W	2/9	4	Probability and Pedigrees I	CK	
F	2/11	5	Probability and Pedigrees II	CK	
M	2/14	6	Chromosomes, Mitosis and Meiosis	CK	
W	2/16	7	Recombination and Genetic Linkage	CK	PS1 (1-5)
F	2/18	8	Tetrad Analysis	CK	
M	2/21		**Student Holiday**		
T	2/22	9	Genetic Linkage in Humans I ***Monday schedule***	CK	
W	2/23	10	Genetic Linkage in Humans II	CK	
F	2/25	11	Quantitative Genetic Mapping	CK	PS2 (6-10)
M	2/28	12	Gene Structure and DNA Analysis	CK	
W	3/2	13	Mutations and Suppressors	CK	**Exam I due**
F	3/4	14	Bacterial Genetics: Transposition	CK	
M	3/7	15	Bacterial Genetics: Transduction	CK	
W	3/9	16	Complementation in Bacteria: Plasmids	CK	
F	3/11	17	Complementation in Bacteria: Rec. DNA	CK	
M	3/14	18	Prokaryotic Regulation: Negative Control	CK	
W	3/16	19	Prokaryotic Regulation: Positive Control	CK	PS3 (12-17)
F	3/18	20	Prokaryotic Regulation: Regulatory Circuits	CK	
M	3/21		**Spring Break**		
W	3/23		**Spring Break**		
F	3/25		**Spring Break**		
M	3/28	21	Links Between Gene Regulation and Function	CK	
W	3/30	22	Dissecting Eukaryotic Regulatory Pathways	CK	
F	4/1	23	Elements of Eukaryotic Gene Regulation	CK	PS4 (18-22)
M	4/4	24	Transgenes & Gene Targeting in Mice	CK	
W	4/6		**Exam II (lectures 12-23)**		
F	4/8	25	Eukaryotic Genomes	AR	
M	4/11	26	Comparing sequences and Genomes I	AR	
W	4/13	27	Comparing sequences and Genomes II	AR	
F	4/15	28	Population Genetics: Hardy-Weinberg	AR	
M	4/18		**Student Holiday**		
W	4/20	29	Population Genetics: Mutation & Selection	AR	
F	4/22	30	Population Genetics: Inbreeding	AR	PS5 (23-28)
M	4/25	31	From pedigree to population: Linkage disequilibrium I	AR	
W	4/27	32	From pedigree to population: Linkage disequilibrium II	AR	
F	4/29	33	Variation in populations: SNP haplotypes	AR	PS6 (29-32)
M	5/2	34	Genome-wide association studies	AR	
W	5/4		**Exam III (lectures 23-32)**		
F	5/6	35	Genetics of quantitative traits I	AR	
M	5/9	36	Genetics of quantitative traits II	AR	
W	5/11	37	Signatures of Selection in the Human Genome	AR	