

Syllabus for 7.014 Spring 2007

Date		Lecture	Section Number	Problem Set Due	Speaker	Topic	Reading
W	2/7	1	#1 (W,Th)		PC	The Biosphere	pp. 1-13, 146-150, 445-458 Life and the Evolution of Earth's Atmosphere C&E Handout
F	2/9	2			PC	Carbon and Energy Metabolism	pp. 125-128, bottom 529-531 Redox Handout
M	2/12	3	#2 (M,T)		GW	Biochemistry I	pp. 18-26,37-38, 45-54; Chem Review 1.1 - 1.5 ; Large Molecules, sections 1- 2
W	2/14	4	#3 (W,Th)		GW	Biochemistry II	pp. 38-45, 54-58; Large Molecules, sections 3.1,3.2 and 4
F	2/16	5		PS1(1-5)	GW	Biochemistry III	pp. 87-91 Large Molecules, section 3.4
M	2/19	President's Day					
T	2/20	6			GW	Biochemistry IV	pp. 106-119
W	2/21	7	#4 (W,Th)		GW	Biochemistry V	pp. 125-131
F	2/23	8			GW	Biochemistry VI	pp. 131-139
M	2/26	9	#5 (M,T)		GW	DNA as Genetic Material	pp. 145-154, 213-217
W	2/28	10	#6 (W,Th)		GW	Molecular Biology I	pp. 217-227
F	3/2	11		PS2 (6-10)	GW	Molecular Biology II	pp. 222-227
M	3/5	12	#7 (M,T)		GW	Molecular Biology III	pp. 227-228
W	3/7					EXAM I (lectures 1-11)	
F	3/9	13			GW	Molecular Biology IV	pp. 236-244
M	3/12	14	#8 (M,T)		GW	Molecular Biology V	pp. 244-246, 288-290
W	3/14	15	#9 (W,Th)		GW	Gene Regulation	pp. 269-273
F	3/16	16		PS3 (11-15)	GW	Bacterial Genetics I	pp. 233-235, 250-254
M	3/19	17	#10 (M,T)		GW	Bacterial Genetics II	pp. 259-269
W	3/21	18	#11 (W,Th)		PC	Productivity	pp. 1055-1062
F	3/23	19		PS4 (16-19)	PC	Regulation of Productivity	pp. 1107-1111
M	3/26	Spring Break					
W	3/28						
F	3/30						
M	4/2	20	#12 (M,T)		PC	Limiting Factors and Biogeochemical Cycles	pp. 1115-1119
W	4/4	21	#13 (W,Th)		GW	Mendelian Genetics	pp. 187-194
F	4/6					EXAM II (lectures 12-20)	
M	4/9	22	#14 (M,T)		GW	Mitosis and Meiosis	pp. 164-182
W	4/11	23	#15 (W,Th)		GW	Diploid Genetics	pp. 194-198, 202-208; Pedigrees
F	4/13	24		5 (20-24)	GW	Recombinant DNA I	pp. 315-325; Cloning into plasmids

M	4/16	Patriot's Day					
W	4/18	25	#16 (W,Th)		GW	Recombinant DNA II	pp. 324-325, 346
F	4/20	26			GW	Recombinant DNA III	pp. 228-230, 326-329, 394-396
M	4/23	27	#17 (M,T)		GW	Immunology I	pp. 364-374
W	4/25	28	#18 (W,Th)	6 (25-28)	RT	Immunology II	pp.374-384; Humoral Immunology (pdf)
F	4/27					EXAM III (lectures 21-29)	
M	4/30	29	#19 (M,T)		PC	Population Growth I	pp. 1037-1039, 1042-1044
W	5/2	20	#20 (W,Th)		PC	Population Growth II	Humans as the World's Greatest Evolutionary Force (pdf)
F	5/4	31			MP	Molecular Evolution	TBA
M	5/7	32	#21 (M,T)		MP	Genomics	TBA
W	5/9	33	#22 (W,Th)		PC	Communities I	pp. 1040-1042, 1044-1053
F	5/11	34		7 (29-34)	PC	Communities II	pp. 1062-1067
M	5/14	35	#23 (M,T)		PC	Communities III	TBA
W	5/16	36	#24 (W,Th)		PC	Ecological Applications	TBA