

BIOL 304x COURSE CONTENT AND MEETING TIMES - SPRING 2007

Class Meetings: Tuesdays and Thursdays, 8:30-9:45 AM, TBE A107

Meeting Date		Class and Topic	Text Readings Chapter; Pages
Tues	Jan 16	SYLLABUS/CLASS INTRO	---
Thurs	Jan 18	1.1: DNA STRUCTURE	1; 1-22
Tues	Jan 23	1.2: THE CONCEPT OF THE GENE	2-3; 23-53
Thurs	Jan 25	1.3: GENOME ORGANIZATION I	4-5; 54-80
Tues	Jan 30	1.4: GENOME ORGANIZATION II	5-6; 81-112
Thurs	Feb 01	1.5: mRNA STRUCTURE FUNCTION	7; 113-133
Tues	Feb 06	1.6: OVERVIEW OF PROTEIN SYNTHESIS	8; 134-161
Thurs	Feb 08	2.1: THE GENETIC CODE AND PROTEIN LOCALIZATION	9-10; 162-193
Tues	Feb 13	EXAM I (covers 1.1 through 1.6)	---
Thurs	Feb 15	2.2: TRANSCRIPTION	11; 194-221
Tues	Feb 20	2.3: BACTERIAL OPERONS	12; 222-242
Thurs	Feb 22	2.4: REGULATORY RNA/PHAGE STRATEGIES	13-14; 243-279
Tues	Feb 27	2.5: REPLICON STRUCTURES	15-16; 280-302
Thurs	Mar 01	2.6: CELL CYCLE/DNA REPLICATION	17-18; 303-333
Tues	Mar 06	EXAM II (covers 2.1 through 2.6)	---
Thurs	Mar 08	3.1: RECOMBINATION: HOMOLOGOUS and SITE SPECIFIC; IMMUNE GENE REARRANGEMENTS	19;334-355 23;409-428
Tues	Mar 13	SPRING BREAK ---NO CLASS	---
Thurs	Mar 15	SPRING BREAK ---NO CLASS	---
Tues	Mar 20	3.2: DNA REPAIR	20; 356-371
Thurs	Mar 22	3.3: TRANSPOSABLE ELEMENTS	21; 372-391
Tues	Mar 27	3.4: RETROVIRUSES AND RETROPOSONS	22; 392-408
Thurs	Mar 29	3.5: PROMOTERS AND ENHANCERS	24; 429-448
Tues	Apr 03	3.6: REGULATING EUKARYOTIC TRANSCRIPTION	25; 449-467
Thurs	Apr 05	3.7: RNA SPLICING AND PROCESSING	26; 468-489
Tues	Apr 10	EXAM III (covers 3.1 through 3.7)	---
Thurs	Apr 12	4.1: CATALYTIC RNA	27; 490-506
Tues	Apr 17	4.2: CHROMOSOMES	28; 507-525
Thurs	Apr 19	4.3: NUCLEOSOMES	29; 526-549
Tues	Apr 24	4.4: CHROMATIN STRUCTURE	30; 550-564
Thurs	Apr 26	4.5: EPIGENETIC EFFECTS	31; 565-580
Tues	May 01	4.6: GENETIC ENGINEERING	32; 581-594
Thurs	May 03	4.7: MOLECULAR GENETICS OF CANCER	HANDOUT
Thurs	May 10	FINAL EXAM, (covers 4.1 through 4.7 + comprehensive material), 8:00-10:00 AM TBE A107 (NOTE CHANGE IN TIME)	