

COURSE SYLLABUS

#	DATE	TOPIC	READING (<i>BIOLOGY, 8TH ED.</i>)	HOMEWORK (DISCUSS IN SECTIONS)
1	Mon. 1/3	Course organization, Introduction, Scientific inquiry	Chapter 1	
2	Wed. 1/5	The Chemistry of Life	Chapters 2-4	
3	Fri. 1/7	Macromolecules I	Chapter 5, pp. 68-77	Problem Set 1
4	Mon. 1/10	Macromolecules II	Ch. 5, pp. 77-89	
5	Wed. 1/12	Cellular Architecture/Organelles	Chapter 6	
6	Fri. 1/14	Organelles, Membrane structure	Ch. 6, Ch. 7 pp. 125-130	Problem Set 2
	Mon. 1/17	No class, Martin Luther King, Jr. Holiday		
7	Wed. 1/19	Membrane function. Guest lecturer Dr. Orna Cook	Chapter 7, pp. 131-139	
8	Fri. 1/21	Energy, ATP and enzymes	Chapter 8	Problem Set 3
9	Mon 1/24	How cells obtain energy from food: Cellular Respiration	Chapter 9	
10	Wed. 1/26	Photosynthesis	Chapter 10	
11	Fri. 1/28	Review		<i>TA's review session: TBD</i>
	Mon. 1/31	MIDTERM	Lectures 1-10	
9	Wed. 2/2	Cell Cycle, Mitosis	Ch. 12, pp. 228-235	
10	Fri. 2/4	Meiosis, Sexual Life Cycle	Ch. 13	Problem Set 4
11	Mon. 2/7	Simple Mendelian Genetics	Ch. 14, pp. 262-275	
12	Wed. 2/9	Human Genetics	Ch. 14, pp. 276-281	
13	Fri. 2/11	Chromosomes and Inheritance	Ch. 15, pp. 286-300	Problem Set 5
14	Mon. 2/14	DNA Replication	Ch. 16	
15	Wed. 2/16	From Gene to Phenotype, Transcription	Chapter 17, pp. 325-336	
16	Fri. 2/18	Translation	Ch. 17, pp. 337-348	
	Mon. 2/21	No class – President's day		
17	Wed. 2/23	Review		

18	Fri. 2/25	DNA Biotechnology	Chapter 20	Problem Set 6
19	Mon. 2/28	Regulation of Gene Expression in Prokaryotes	Ch.18, pp. 351-355	
20	Wed. 3/2	Regulation of Gene Expression in Eukaryotes	Ch. 18, pp. 356-366	
21	Fri. 3/4	Cell communication: Signal Transduction	Ch. 11	Problem Set 7
22	Mon. 3/7	Regulation of genes in development	Ch. 18, pp. 366-373	
23	Wed. 3/9	De-regulation of genes in cancer	Ch. 18, pp. 373-377	
24	Fri. 3/11	Review		
	Wed. 3/16	FINAL EXAM 11:30AM-2:30PM, Rm TBD	Comprehensive	<i>TA's Review Session TBD</i>

DESCRIPTION BILD1 is an introductory course on the molecular and cellular biology of microbes, plants and animals for Biology majors. The course focuses on structures and mechanisms of action required for smallest unit of life – the cell.

COURSE WEBSITE <http://www.biology.ucsd.edu/classes/bild1.WI11/>

COURSE ETIQUETTE You are expected to arrive on time, turn off phones and listen attentively.

TEXTBOOK *Biology*, 8th Edition, Campbell and Reece

OFFICE HOURS Tues. TBD, or by appointment; York Hall 2300 or 3080E
