

BSC 2010-07 BIOLOGICAL SCIENCE I FALL 2016

Lecture: 9:05-9:55am, MWF, 208 BIO Help Session: TUES 5:15 - 6:15pm 208 BIO

Instructors: Dr. Mike Meredith, (mmered@neuro.fsu.edu); Dr. Tom Houpt, (houpt@neuro.fsu.edu)

Office Hours (MM): Mon 3:00 - 5:00 pm; Thurs 1:30 - 3:30 pm - and by appointment . (TH): TBA and by appointment.

Tutor: Mason Sutherland <mas13b@my.fsu.edu>

Tutor Office Hrs: Wed. 2:00 - 4:00pm, KIN 1054

Text: Campbell "BIOLOGY", 10th edition by Reece, et al.

Campbell Reading

Lect #	Date	Topic		
Atoms and Biological Molecules: The Chemistry of Life (Meredith)				
1	M	29-Aug	Introduction, The Elements; Atomic Structure	CH 2 28-37 (+ read p 27)
2	W	31-Aug	Chemical Bonds; Reactions	CH 2 37-41
3	F	2-Sep	Water and the Fitness of the Environment	CH 3 44 - 54
	M	5-Sep	No Class-Labor Day	
4	W	7-Sep	pH; Carbon and the Molecular Diversity of Life	CH 3-4 53 - 64
5	F	9-Sep	The Structure and Function of Macromolecules	CH 4, 5 66 - 75
6	M	12-Sep	Biomolecules II	CH 5 75 - 85
7	W	14-Sep	Biomolecules III; The Cell - Types of cells	CH 5, 6 84-89; 92-96
8	F	16-Sep	A Tour of the Cell; Organelles	CH 6 96 - 108
9	M	19-Sep	Organelles II	CH 6 108 - 119
10	W	21-Sep	Cell Surface: Membrane Structure/Function	CH 6, 7 118-122; 124-131
11	F	23-Sep	Cell Membrane Structure/Function	CH 7 131 - 138
--	M	26-Sep	First Examination (Lectures 1-11) 22%	

Energy Transformations (Meredith)

12	W	28-Sep	Introduction to Metabolism: Energy	CH 8 141 - 151
13	F	30-Sep	Energy, Reactions and Enzymes	CH 8 151 - 159
14	M	3-Oct	Cell-Cell Communication	CH 11 (210 - 229) parts
15	W	5-Oct	Cellular Respiration: Redox Reactions; Electrons	CH 9 162 - 168
16	F	7-Oct	Cellular Respiration: Glycolysis; Citric Acid Cycle	CH 9 169 - 173
17	M	10-Oct	Cellular Respiration: Chemiosmosis	CH 9 173 - 182
18	W	12-Oct	Photosynthesis I	CH 10 185 -196
19	F	14-Oct	Photosynthesis II	CH 10 196 - 207
--	M	17-Oct	Second Examination (Lectures 12-19) 22%	

Molecular Biology: The Central Dogma and Gene Regulation (Houpt)

20	W	19-Oct	Nucleic Acids and Genes	CH 16
21	F	21-Oct	DNA Experiments I	CH 16
22	M	24-Oct	DNA Experiments II	CH 16
23	W	26-Oct	DNA Replication I	CH 16
24	F	28-Oct	DNA Replication II	CH 16
25	M	31-Oct	RNA Transcription	CH 17
26	W	2-Nov	Protein Translation & Mutation	CH 17
27	F	4-Nov	Viruses	CH 19
28	M	7-Nov	Regulation of Gene Expression I: prokaryotes	CH 18
29	W	9-Nov	Regulation of Gene Expression II: eukaryotes	CH 18
--	F	11-Nov	Veteran's Day Holiday - No Class	
--	M	14-Nov	Third Examination (Lectures 20-29) 22%	

Transport and Physiological Regulation (Houpt)

30	W	16-Nov	Cancer and Oncogenes	CH 18
31	F	18-Nov	Internal Transport in plants and animals	CH 36, 42, 44
32	M	21-Nov	Digestive Systems	CH 41
--	W	23-Nov	No Class - Thanksgiving Holiday	
--	F	25-Nov	No Class - Thanksgiving Holiday	
33	M	28-Nov	Respiratory systems	CH 42
34	W	30-Nov	Gas exchange and Hemoglobin	CH 42

35	F	2-Dec	Heart and Blood flow; Immune System	CH 42/43
36	M	5-Dec	Hormones and Second Messengers	CH 45
37	W	7-Dec	Excitable cells I: Neurons	CH 48-50
38	F	9-Dec	Excitable cells II: Nerve/Muscle Contraction	CH 50

Thurs 15-Dec 10:00am - 12:00pm FINAL EXAMINATION (Lectures 31-38) 22% in Class Room

Other Important Dates

Last day of drop/add	1-Sep
Last day to drop, withdraw, change S/U status	14-Oct
Last day of classes	9-Dec
Exam Week starts	12-Dec
Final Grades Available	21-Dec