

Instructor: Dr. John Elam  
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 644-6273

Tutor: TBA  
 Biology Study Center Hours:  
 M-R: 9:05 am-4 pm; F 9:05 am-3:30 pm

Office Hours: M, W 12:30-1:30PM Tu, Th 2-3PM, 207 Bio Unit 1  
 Help Session: 5:15-6:15 PM Wednesday, 228 Conradi  
 Text: Biology, 7<sup>th</sup> edition by Campbell and Reece

Lect. No.	Date		Topic	Readings in Campbell 7 <sup>th</sup>
<b>ATOMS AND BIOLOGICAL MOLECULES</b>				
1	1/05	W	Introduction – elements, Atomic Structure	32-38
2	1/10	M	Chemical Bonds, Water, Acids, and Bases	39-45, 47-56
3	1/12	W	Carbon Compounds, Functional Groups, Carbohydrates	58-66, 68-74
	<b>1/17</b>	<b>M</b>	<b>Martin Luther King Day – No Classes</b>	
4	1/19	W	Lipids, Membrane Structure	74-77
5	1/24	M	Amino Acids, Peptides, Proteins	77-86
6	1/26	W	Arrangement of Molecules in Cells	92-118
	<b>1/31</b>	<b>M</b>	<b>1<sup>st</sup> Exam (lectures 1-6)</b>	
<b>ENERGY TRANSFORMATIONS</b>				
7	2/02	W	Laws of thermodynamics, Chemical reactions, Enzymes	141-155
8	2/07	M	Membrane diffusion, osmosis	124-134
9	2/09	W	Membrane transport, Oxidation and Reduction	134-138, 161-164
10	2/14	M	Aerobic respiration	164-174
11	2/16	W	Anaerobic fermentation, photosynthesis, light capture	174-178, 181-193
12	2/21	M	Photosynthesis, carbon fixation	193-198
<b>MOLECULAR GENETICS</b>				
	<b>2/23</b>	<b>W</b>	<b>2<sup>nd</sup> Exam (lectures 7-12)</b>	
13	2/28	M	DNA and Information storage	86-89, 293-298
14	3/02	W	DNA replication	299-307
	<b>3/7-3/11</b>		<b>Spring Break – No Classes</b>	
15	3/14	M	Gene transcription	309-319
16	3/16	W	Gene translation	320-327
17	3/21	M	Genetic code and mutation	328-331
18	3/23	W	Gene expression in viruses, bacteria, and eukaryotes	334-356,359-370
<b>TRANSPORT AND REGULATION</b>				
19	3/28	M	Animal nutrition and digestion	844-862
	<b>3/30</b>	<b>W</b>	<b>Third exam (lectures 13-19)</b>	
20	4/04	M	Circulation and gas exchange	867-894
21	4/06	W	The Immune System, Controlling body fluids	898-918, 922-930
22	4/11	M	Kidney function, Mechanism of hormone action	930-938, 943-948
23	4/13	W	Hormones, Nerve cell function	948-958, 1011-1025
24	4/18	M	Nervous system organization	1025-1036
25	4/20	W	Sensory systems, Muscle	1045-1069
	<b>4/29</b>	<b>F</b>	<b>Final Examination - 12:30-2:30 P.M., 104 MOR</b> <b>75% on lectures 20-25; 25% on lectures 1-19 (review)</b>	

ADA Statement: Florida State University provides high-quality services to students with disabilities, and we encourage you to take advantage of them. Students with disabilities needing academic accommodations should: a) register with, and provide documentation to, the Student Disability Resource Center (SDRC) in room 108 in the Student Services Building (644-9566); and b) bring me a letter from SDRC indicating your needed academic accommodations. Please do this during the first week of class. For more information on this see the Resource Center's web site. This document and all others produced for this course are available upon request in alternate formats for individuals with print-related disabilities. Contact Dr. Elam or Dr. Granger at 644-6747 for more information.

## ***BSC 2010-03 GENERAL INFORMATION***

### Meeting Times

Lecture:

MW 2:00-3:15 PM, 104 Moore Auditorium

Help session: 5:15-6:15 PM Wednesday, 228 Conradi

### Personal Consultation:

Dr. Elam, 644-6273

elam@neuro.fsu.edu

### Expectations/Requirements

Attendance at lecture is voluntary; however good attendance is strongly recommended since all material on the exams will be taken directly from the lecture notes. Attendance at the Wednesday afternoon help sessions is voluntary and is intended only for students needing extra help. The reading assignments are intended to reinforce the material that is presented in lectures. The exams will be in the multiple-choice format and will require that the student possess a thorough knowledge of the subject material.

### Grade Determination

1<sup>st</sup> Examination

2<sup>nd</sup> Examination

3<sup>rd</sup> Examination

Final Examination

Jan. 31<sup>st</sup> -- 23%

Feb. 23<sup>rd</sup> --23%

Mar. 30<sup>th</sup> --23%

Apr. 29<sup>th</sup> --31%

+ or – grades may be assigned to students whose exam average is borderline between two letter grades

In the case of borderline grades, the pattern of class performance will be taken into consideration.

Final grades will be determined from the weighted average of all exams. Grade cut-offs may be adjusted in the event that the final class average is below 75%.

### Examination and Grading Policies

All students will be expected to take the hour exams and the final exam at their scheduled times.

Students should note the above exam dates and discuss any anticipated conflicts (weddings, field trips, family obligations, etc.) with the instructor **during the first week of classes**, so that alternate arrangements for taking the exam(s) can be made in advance. After the first week of classes, only legitimate emergencies (including illness) will be accepted as valid excuses for missing an exam. If a student misses an exam for a legitimate reason, they will be permitted to take a make-up exam instead. The student must be able to document the fact that a legitimate emergency prevented them from taking the exam they missed (for example, a written notice from the Health Center stating that the student was unable to take the exam). The student should attempt to contact the instructor **prior** to the exam (if the instructor cannot be reached, a message should be left with the departmental office at 644-3700 or 644-6747).

### Honor Code

You must understand and uphold the Academic Honor Code, which is published in the *Florida State University General Bulletin* and in the *Student Handbook*. The academic honor system of FSU is based on the premise that each student has the responsibility to: (i) uphold the highest standards of academic integrity in the student's own work, (ii) refuse to tolerate violations of academic integrity in the University's community, and (iii) foster a high sense of integrity and social responsibility on the part of the University community. A student violating the Honor Code in any assignment, quiz, or examination in BSC2010 will receive a minimum penalty of a zero (0) for that assignment, quiz, or exam and may receive a grade of "F" for the course at the discretion of the instructor.