

# BIO. 323 INTRODUCTORY MOLECULAR AND CELL BIOLOGY 002C

LECTURER: Dr. Lisa Dorn

Fall 2016

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OFFICE HRS: Posted to D2L

LECTURE HOURS: 8:00am – 9:00am in Halsey Science Building; Rm. 175

TEXT (lecture): Alberts, Bray, Hopkin, Johnson, Lewis, Raff, Roberts, Walter (2004) **Essential Cell Biology**, 4<sup>th</sup> edition, Garland Science, Taylor and Francis Group, New York & London.

**ATTENDANCE POLICY:** I will not take role in lecture. Attending lecture and good note-taking skills will increase your ability to do well in class. I will use lecture time to discuss quiz questions, which are helpful for the exams, but I do not schedule these sessions. Along those lines, you should silence all cell phones and pagers. If you want to waste your tuition dollars texting through my class, I won't stop you. However, if your texting appears disruptive, even if it is only me feeling cranky, I will ask you to stop. IF you have a pending disaster in your personal life (i.e. to a child, parent, spouse) and you need to monitor your texts, consider that you probably should not come to class. However, if it is not that disastrous but your concentration will improve if you have the assurance of contact please let me know that you are monitoring your text messages. **Please, please, please talk to me if your life is spiraling into the 3<sup>rd</sup> circle of hell** (who's read Dante?). **I can help and I will. Although, the longer you wait the less I can help.**

**GRADING:** There will be 3 exams each worth 100 points and 3 quizzes each worth 15 points. Total points 345 points.

**PROBLEM SOLVING:** The quizzes are multiple-choice D2L quizzes. They are designed to help you review the topics we have covered and are due just prior to each exam. You may discuss the questions with your classmates and ask for help in lecture. They are NOT an example of the exam format as the exam will be short answer and essay questions but they will be examples of potential problems you will need to answer.

These problems are presented as quizzes that will be available ~1 week before the due date for that quiz. During that week, you may open it, print it and discuss potential solutions with your peers and me. On the day that the quiz is **due you have until 10:30pm** to submit your answers. After that 10:30 pm time you have a 6 hr grace period to submit late (i.e. until 4:30 am the following morning). After that, you lose 1 pt for every hour the quiz is late. **The quiz closes at 10:30pm THE DAY AFTER IT IS DUE at which point the grace period is long long over!** Note: the day the quiz closes is the day after it is due.

Don't forget to *save* the answers as you enter them. You can still change it even after saving but once you submit the quiz you cannot change your answers. You can see the answers 1 day after the late submission deadline.

**\*\*\*IMPORTANT\*\*\*:** D2L can be temperamental. **Do not wait for the last hour to submit your answers.**

Excuses for waiving late submission penalties that **will NOT be accepted** include:

- D2L problems in the last hour before the deadline.
- I forgot to save my answers
- I forgot after I went to work
- My internet service at home failed.

BUT if you have submitted by the deadline and D2L fails to recognize your submitted quiz send me an e-mail. In most cases, I have your quiz and can force D2L to accept it.

### GRADING SCALE:

A = 93 - 100%,

A- = 90 - 92.9%

B+ = 88 - 89.9%

B = 83 - 87.9%

B- = 80 - 82.9%

C+ = 78 - 79.9%

C = 73 - 77.9%

C- = 70 - 72.9%

D+ = 68 - 69.9%

D = 63 - 67.9%

D- = 60 - 62.9%

F (Failure) < 60%

Grades may be “curved” at the end, if necessary.

**MAKE-UP EXAMS:** If you cannot be present for an exam, it is **your** responsibility to get in touch with me **before** the rest of the class writes the exam. Make-up exams will be available **only** if the student suffers a life-threatening illness and has a medical excuse to support that claim (but see my reference to Dante above).

### Lec

#	Day	Date	Topic	Book
1	Wed	<b>7-Sep</b>	Protein Structure & Function	4
2	Fri	<b>9-Sep</b>	Protein Structure & Function	4
3	Mon	<b>12-Sep</b>	Membrane Structure	11
4	Wed	<b>14-Sep</b>	Membrane Structure	11
5	Fri	<b>16-Sep</b>	Membranes: Transport across	12
6	Mon	<b>19-Sep</b>	Membranes: Transport across	12
7	Wed	<b>21-Sep</b>	Membranes: Transport across	12
8	Fri	<b>23-Sep</b>	Membranes: Transport across	12
9	Mon	<b>26-Sep</b>	Cell Communication (Signaling)	16
10	Wed	<b>28-Sep</b>	Cell Communication (Signaling)	16
11	Fri	<b>30-Sep</b>	Cell Communication (Signaling)	16
12	Mon	<b>3-Oct</b>	Cell Comm; G-protein linked receptors <b>Quiz 1 due</b>	16
13	Wed	<b>5-Oct</b>	IntracellComparts & transport among	15
	Fri	<b>7-Oct</b>	<b>Exam 1 (lectures 1-12)</b>	
14	Mon	<b>10-Oct</b>	Intracellular Compartments & transport among	15
15	Wed	<b>12-Oct</b>	Intracellular Compartments & transport	15

16	Fri	<b>14-Oct</b>	Intracellular Compartments & Transport	15
17	Mon	<b>17-Oct</b>	Transport	17
18	Wed	<b>19-Oct</b>	Transport	17
19	Fri	<b>21-Oct</b>	Vesicle Transport	17
20	Mon	<b>24-Oct</b>	Pinocytosis & Cytoskeleton	17
21	Wed	<b>26-Oct</b>	Cytoskeleton Motor proteins	17
22	Fri	<b>28-Oct</b>	Cytoskeleton Cell Crawling	17
23	Mon	<b>31-Oct</b>	Cytoskeleton & Energetics ET	17,14
24	Wed	<b>2-Nov</b>	Energetics	<b>Quiz 2 due</b> 14
	Fri	<b>4-Nov</b>	<b>EXAM #2 (lectures 13-23)</b>	
25	Mon	<b>7-Nov</b>	Energetics ET chain ATPsynthase	14
26	Wed	<b>9-Nov</b>	Photosynthesis	14
27	Fri	<b>11-Nov</b>	DNA structure and Chromosomes	6
28	Mon	<b>14-Nov</b>	DNA replication and repair	6
29	Wed	<b>16-Nov</b>	DNA Replication and repair	6
30	Fri	<b>18-Nov</b>	Transcription	7
31	Mon	<b>21-Nov</b>	Transcription	7
	Wed	<b>23-Nov</b>	<b>Thanksgiving Break</b>	
	Fri	<b>25-Nov</b>	<b>Thanksgiving Break</b>	
32	Mon	<b>28-Nov</b>	Translation	7
33	Wed	<b>30-Nov</b>	Translation	7
34	Fri	<b>2-Dec</b>	Gene Regulation	8
35	Mon	<b>5-Dec</b>	Gene Regulation	8
36	Wed	<b>7-Dec</b>	Gene Regulation	8
37	Fri	<b>9-Dec</b>	Gene Regulation	<b>Quiz 3 due</b> 8
	Mon	<b>12-Dec</b>	Review	
	Wednes	<b>14-Dec</b>	<b>Exam #3 (Lectures 24 - 37)</b>	
	Fri	<b>16-Dec</b>	Alternate Exam Day	