Intro to Cell and Molecular Biology

BIOL 131 **Spring 2007** **Dr. Spilatro**

Lecture: T, Th 9:30 - 10:45, Selby 143
Text: Raven et al, *Biology* (Volume 1), 7nd ed. 2005

⁂PowerPoint and Question Bank downloads are available through WebCT⁂
*** Indicates days of 'regular' quizzes**

TENTATIVE SCHEDULE OF TOPICS

Dates	Lecture Topic	Reading assignments
Jan 23 – 30	Introduction Nature of Molecules	Chapter 2
Feb 1 – 8*	Chemical Building Blocks	Chapter 3
	Due date: Feb 1 Literature research project assigned	
13 – 15	Cell Structure	Chapter 5
	Feb 15 Research project references and 2^{O} article	
	The exam over the above material will be on 2/20	
22 – 27	Membranes	Chapter 6
	Due date: Feb 15 Research project references and 2^{O} article	
Mar 1	Energy and Metabolism	Chapter 8
6 – 8*	Cell Respiration	Chapter 9
	Due date: Mar 1 Topic summary	
13 & 15	*SPRING BREAK*	
	The exam over the above material will be on 3/22	
20 – 27	Photosynthesis	Chapter 10
Mar 29 – Apr 3	DNA	Chapter 14 (& section 20.2 from Chapter 20)
Apr 5* – 10	Cell Division	Chapters 11 (& section 20.3 from Chapter 20)
	The exam over the above material will be on 4/12	
17 – 24	Gene Structure and Function	Chapter 15 (& sections 17.1 & 17.2 from Chapter 17)
26* – May 3	Gene Technology	Chapter 16

Final Exam -- Monday May 7, 8:30 AM

Help session schedule
Wed evenings, 7:00 PM
Rickey 2nd Floor Lounge
Lead by
Andrea Marion
Toni Stephenson
Feb 7
Feb 14
Mar 7
Mar 21
Apr 4
Apr 11
Apr 25
May 2

Objectives of Course

Lecture Material

This course is designed to provide a foundation level understanding of the cellular and molecular processes of cells and illustrate how cellular-level information is an integral part of understanding the other areas of biology. Some of the concepts you should be able to describe after taking this course include:

- molecular foundation of cellular processes
- organization of the cell cytoplasm
- processes of energy interconversion
- functioning of the genetic material
- processes and regulation of cell division
- methodologies and uses of biotechnology

Furthermore, this course is designed to:

- improve your strategies for learning to include reading, note rewriting and participation in study groups
- improve your ability to access information in the vast bulk of scientific literature.

Student Expectations

Students are expected to:

- attend all classes
- read the assigned material.
- actively participate in class discussions by asking and answering questions
- develop improved learning skills
- do assigned questions
- examine molecular models

On-Line Class Resources

Some class resources, the **Test Question Bank** and **PowerPoint files** can be accessed from WebCT . Other resources, including the molecular modeling page, can be accessed through the Intro to Cell Biology Homepage at **http://www.marietta.edu/~biol/Biol131/index131.html**, which also can be accessed through WebCT.

Attendance Policy

Attendance will be taken in lectures. I expect to be notified at least ONE WEEK in advance if you need to miss a lecture due to a field trip, athletic event, etc.

Grading Policy

Your final grade will be determined as follows:

		(points subject to change)
Exams	3 x ~100	~ 300 points
Final exam		~150
Quizzes (mini and regular quizzes)		~100
Literature research assignment		50

		~ 600

Mini-quizzes (a question or two) will be given at the beginning of many classes. These are timed, can not be made up if you are late arriving to class or absent. Late assignments will be penalized 10% per day. I must be notified at least one week in advance if you must miss a class the day of an exam or quiz due to an athletic event, field trip, etc, at which time we will arrange an alternative exam time. You may not be allowed to makeup an exam if I receive "last minute" notification. There will be no makeups for unexcused absences. Extraordinary circumstances will be dealt with on an individual basis.

If you have special needs because of a documented learning disability or other disability, please see me immediately to discuss possible accommodations.

Grading Scale:

Your final grade will be determined as follows:

A+	>97%	B+	87%	C+	77%	D+	67%	F	below 60%
A	93%	B	83%	C	73%	D	63%		
A-	90%	B-	80%	C-	70%	D-	60%		

Turnitin.com

Written essays must be submitted to turnitin.com by the due date for the assignment.

Class ID= 1794773 Password = Biol13101 ** Ignore the due dates shown in TII.com**
Late submissions to TII.com will be docked 5% per day.

Office Hours

Location: Bartlett Hall rm 161B, ext. 4748

Times: Mon. 8:30-9:30; Wed. at 4:00 – 5:00

I will make every effort to be accessible at other times --just drop in.

If I'm busy, we can schedule another time at which we can meet.

Academic Dishonesty

Academic dishonesty within the academic community is a very serious matter, because dishonesty destroys the basic trust necessary for a healthy education environment. Academic dishonesty is any treatment or representation of work as if one were fully responsible for it, when it is in fact the work of another person. Academic dishonesty includes cheating, plagiarism, theft, or improper manipulation of laboratory or research data or theft of services. A substantiated case of academic dishonesty may result in disciplinary action, including a ‘0' on the assignment, a failing grade in the course, or expulsion from the College.