

CHEM 326: BIOCHEMISTRY LECTURE Spring 2012

INSTRUCTOR: Dr. Sandra L. Turchi

Office Caputo Hall 218

Phone: 872-3423

e-mail: Sandra.Turchi@Millersville.edu

Web site: <http://www.millersville.edu/chemistry/faculty/turchi/turchi.php>

On the web site you will find:

1. One complete set of previous exams
2. The course objectives
3. Overheads used in class

Office Hours: MWF 9:00 to 10:00; Thursday 9:00-11:00 others by appointment

LECTURE PERIODS: MWF 8:00 to 8:50 in Brossman 102

EXAMS Lecture exams are indicated in the syllabus below.

PREREQUISITE: CHEM 232 or CHEM 235

TEXT: Suggested Text:

- Campbell & Farrell; Biochemistry, 7th edition ISBN: 0-495-39041-1
- Lab text: Supplied by the Department
- Goggles and lab notebook are to be purchased by the student

The laboratory text is an in-house publication.

You will need a bound notebook for lab and goggles.

Other Text you can use for lecture include:

Campbell & Farrell; Biochemistry, 6th edition

Horton; Principles of Biochemistry, 4th edition

Garrett and Grisham; Biochemistry, any edition.

Important Biochemistry web sites:

1. <http://www.indstate.edu/thcme/mwking/home.html>
2. <http://www.biocarta.com/>
3. <http://www.gwu.edu/~mpb/index.html>

ATTENDANCE: Class attendance is strongly recommended. Exam questions are based primarily on the lecture material. Being in class gives everyone a 'heads-up' if changes in the lecture or lab schedule need to occur. Students are responsible for the material and assignments presented in class. Attendance is **mandatory** for exams. Make-up work is to be arranged by the student with the instructor. If an absence is anticipated, work that will be missed must be done **in advance**. No work may be made up without an official excused absence; infirmity excuse will NOT be accepted. Excused absences include participation in an athletic event or class trip, military duty, death or critical illness in the family, or personal illness in which a physician indicates that you were too ill to attend class. A request for an excused absence should include a written justification for the reason for the absence and be signed by the appropriate individual (coach, faculty member, physician, etc). Except for death or illness, requests for an excused absence must be presented before the anticipated absence. Only valid excuses will be accepted to make up any missed assignments. Departure times for travel are NOT valid excuses. Make your travel arrangements accordingly. **Work not made up within one week from your return to class automatically receives a zero.**

CLASSROOM ETIQUETTE: Socializing and talking in class is rude and unfair to your peers interested in learning and hearing the lecture. If you persist in talking I will ask you to leave. I reserve the right to take

disruptive behavior such as, habitual tardiness, frequent or excessive talking during class, cell phone disruptions or leaving before class has ended into account when determining your final grade. **Please set your cell phone on vibration mode during class.** If you are expecting an important or emergency phone call sit in the front of the lecture room so that you can leave with minimum disturbance to your peers.

LEARNING DISABILITIES AND SPECIAL SENSATIVITIES: If you believe you have a learning disability, you may provide documentation to the Office of Student Support Services in Lyle Hall. I will be notified and appropriate accommodations will be made for you. If you have a condition that may affect your ability to perform a laboratory exercise (for example, allergies, pregnancy, chemical sensitivity), impede your exit from a lab in an emergency situation, or may cause an emergency during lab or class, please discuss this with your instructor and someone at the Office of Student Support Services.

ACADENIC HONESTY AND DISHONESTY: Familiarize yourself with the University policy on academic honesty and dishonesty as outlined in the MU student handbook and University brochure on the same. The content of these two documents applies to this course. Cheating of any form will not be tolerated. You and the person from whom you copy will both receive an "F" in that exam or assignment. Even though you work with a partner in lab and use the same collected data, each of you must write his/her own lab report. Although you may work on the problems together your answers should not be identical.

OBJECTIVES:

The student should be able to demonstrate that he/she

- Integrates their understandings of biology and chemistry at the molecular, cellular and organismal levels,
- Comprehends the concept of biomolecules, their structures, and their structure/function relationships in the aqueous, compartmentalized cell;
- Is capable of analyzing, interpreting, and predicting molecular events from quantitative expressions;
- Knows the pathways of intermediary metabolism as well as their regulation and their integration under various metabolic scenarios;
- Develops the technical and intellectual skills necessary to facilitate creative problem solving,
- Develops the attitudes and values that foster a continuing discourse about science and its role our world.
- The Laboratory exercises are designed to:
 1. Enhance the students understanding of biochemical principles
 2. Provide realistic experiences in the practice of selected biochemical techniques

| | | |
|------------------|-----------------------------|-------------------|
| GRADING : | 4 Exams | 400 points |
| | Final Exam | 200 points |
| | <u>Total points for lab</u> | <u>260 points</u> |
| | Total points for course | 860 points |

You must have a passing grade in the lecture to count the lab grades into the total points for the course. All labs must be completed to pass the course.

The grade distribution will be based on the following system:

| | | | |
|------------------------|------------------------|------------------------|------------------------|
| 94-100 = A | 89-87 = B ⁺ | 79-77 = C ⁺ | 69-67 = D ⁺ |
| 93-90 = A ⁻ | 86-84 = B | 76-74 = C | 66-64 = D |
| | 83-80 = B ⁻ | 73-70 = C ⁻ | 63-60 = D ⁻ |