

BIOCHEMISTRY 451B-001, SPRING 2007

Lecture Schedule: MWF, 10:00 AM – 10:50 AM; SL2224

Textbook: "Lehninger, Principles of Biochemistry" 4th Edition; D.L. Nelson and M.M. Cox;

Study Guide and Solutions Manual: "The Absolute, Ultimate Guide to Lehninger Principles of Biochemistry. Study Guide and Solutions Manual"; M. Osgood and K Ocorr, 3rd or 4th Edition, Worth Publishers, recommended (**available in the library**).

Reference: (1) "Textbook of Biochemistry with Clinical Correlation" 6th edition, T.M. Devlin, Wiley-Liss
(2) "Principles and Techniques of Biochemistry and Molecular Biology" 6th Ed. K Wilson & J. Walker, Cambridge.

Course web site: <http://www.siu.edu/~cwei/course/chem451B>

All materials will be in Blackboard at <http://bb.siu.edu>

Instructor: Dr. Chin-Chuan Wei

Office hours: MW: 2:00-3:00 pm, and by appointment.

Office: SL 2308; my lab: SL0116B (Basement)

Phone: (Office) 618-650-2454 (Lab): 618-650-5183

E-mail: cwei@siue.edu

Course description: Biochemistry 451B is the lecture course that is specific for biochemistry/chemistry major to start their exciting journey to the world of the chemistry of life. The study of biochemistry shows how the collections of inanimate molecules that constitute living organisms interact to maintain and perpetuate life animated solely by the physical and chemical laws that govern the nonliving universe.

Attendance: Students are required to attend every lecture and to be prepared by reading the material before coming to the class. More than 3 unexpected absences will result in WR or an UW grade

Chapters and Exam Schedule: See attached page. Making up quiz or exam is only for excused absence and is only granted for once.

Grading:	Exams (Exam I –III, 100 points/each)	300
	Exam 4 + Final	200
	Quizzes + homework	70
	<u>Participation in Class</u>	<u>30</u>
	Total:	600

Approximate grading scales are A = 85- 100%, B= 84-75%, C= 74-65%, D= 64-55%, F < 55%.
Grading % are calculated by dividing your total accumulated score by the maximum possible score (i.e. 600) and converted to %.

1. **Exams:** see exam schedule.
 2. **Homework:** minimum assigned problem set in the Book and handout.
 3. **Quizzes:** In-lecturer quizzes will be given with or without announcement.
- ** A missed quiz and exam due to unexcused absence will count as a ZERO.**

Students with disabilities: Please notify me no later than the end of the first week of class concerning any academic accommodations you will need. You must have a documented disability and an ID CARD from university's Disability Support Services (RH1218, x3726).

Suggestions for success:

1. read material before coming to class
2. come to class and engage your mind
3. seek to understand rather than to write down what teacher says.
4. Do all the homework problems and class exercises, and prepare quizzes
5. Go over and review your notes on the day of the class while you still remember.
6. Use your new learning as much as possible in your daily lives.
7. Find a study group and compare notes.

Spring 2007 CHEM 451B Tentative Schedule (MWF 10:00-10:50 am)

Week	Chapters	NOTE
1 (Jan 8)	CH9 DNA-Based information technologies	
2 (Jan 15)	CH9/CH10 Lipids	
3 (Jan 22)	CH10/CH11 Biological membranes and transport	
4 (Jan 29)	CH 11	
5 (Feb 5)	CH12 Biosignaling	
6 (Feb 12)	CH12	Feb 12 Exam I (CH 9-11)
7 (Feb 19)	CH13 Principles of Bioenergetics	
8 (Feb 26)	CH14 Glycolysis and gluconeogenesis	
9 (Mar 5)	Spring Break (NO CLASS)	
10 (Mar 12)	CH14/CH16 Citric Acid Cycle	Mar 19 Exam II (CH 12, 13, part of14)
11 (Mar 19)	CH16/CH17 Fatty acid catabolism	
12 (Mar 26)	CH17	
13 (Apr 2)	CH19 Oxidative phosphorylation and photophosphorylation	
14 (Apr 9)	CH22 Biosynthesis of amino acids and nucleotides	
15 (Apr 16)	CH23 Hormonal regulation	Mar 16 Exam III (CH part of14,16,17, 19)
16 (Apr 23)	CH25 DNA metabolism	
17 (Apr 30)	Exam 4 (CH22,23,25) plus comprehensive Final Exam	Follow University Schedule