

CHEMISTRY C485 BIOSYNTHESIS AND PHYSIOLOGY **(Biochem II) FALL 2009**

INSTRUCTOR: Theodore S. Widlanski (please call me Ted)
Office - Chemistry C329B
e-mail: twidlans@indiana.edu
Phone: 855-6863 (do not leave phone messages except in emergencies)

LECTURE: 8:00 – 8:50 MWF

OFFICE HOURS: M. 9:00-10:00 Th. 1:30-2:30 Private appointments may be made through Erin Edwards erkmclau@indiana.edu

I strongly recommend that you make a habit out of using office hours, whether with me, or the associate instructor. If you are having difficulties with the material, or personal and/or health problems are starting to affect your academic performance, get help immediately. The instructor and associate instructors will make every reasonable effort to ensure that you obtain the help you need to master the material. However, if you fall too far behind, it will be very difficult to catch up!

WEB SITE; ANNOUNCEMENTS AND POSTS: All announcements, posts, information (including this syllabus) can be found at:
<http://courses.chem.indiana.edu/c485/default.asp>

Important information and deadlines for chemistry students (as well as standard course policies) may be found at:
http://courses.chem.indiana.edu/documents/Student_Policies.pdf

Associate Instructor: Brian Hamilton
AI office hours: T, W 1:00, C046
bshamilt@indiana.edu

TEXT: Berg, Tymoczko, and Stryer, Biochemistry, (6th Edition), 2006

eMAIL: Please do not use email to ask complicated questions. Questions on subject material should be handled during office hours. Do not use email as a surrogate for face-to-face communication. You should email the instructor if your question cannot wait for office hours, an appointment, or the next class meeting.

GRADES and EXAMS: Course grades will be determined based on four one hour exams and a two hour comprehensive final. The hour exams will be given during class periods. The final examination will be held during the scheduled examination period. Each in-class exam will count for 100 points. The final exam is worth 200 points. Your

final score will be an average of all the exams plus any points acquired from quizzes. There will be no make-up exams. The lowest hour exam will be dropped. You may miss hour exams without penalty. The grade on the comprehensive final (divided by 2) will be substituted. If you come to an hour exam, you must take it. You cannot walk out without handing in your exam. **If you choose to skip an hour exam, you must email me and the AI prior to the exam (by Thursday night at 12) to tell us you are not taking it, or you will receive a grade of zero for the exam.** The final exam is not optional. Students are strongly advised to take all hour exams.

Quizzes

There will be a weekly quiz on Friday whenever there is no hour exam. Each quiz will be worth 5 points and there are ten total. You should think of these quizzes as an opportunity to earn extra credit points. There are no make-up quizzes.

Grading Scale

Instructor's discretion	A+
425 or higher	A range
424-325	B range
324-250	C range
249-200	D
<200	F

Plus and minus grades will be assigned.

Regrade requests are permitted on all tests except the final. To receive consideration, they must be submitted in writing no later than the class period immediately following the period when tests were returned. **No late regrades.** Please look carefully at the answer key before submitting a regrade. The entire test will be regraded.

EXAM DATES: Please see topic list.

WITHDRAWALS: Students should familiarize themselves with the various withdrawal and drop dates stipulated by the College. All withdrawals and paperwork pertinent to withdrawals are handled in the UGO, Chemistry 012. The **professor's signature is not required.** Please see http://courses.chem.indiana.edu/documents/Student_Policies.pdf

INCOMPLETES: Incompletes are only allowed for reasons of prolonged illness or similar distress. The regulation is as follows: "A grade of I may be given only when the work of the course is substantially completed and when the student's work is of passing quality." **If you skip more than one hour exam, you cannot get an I in this class.** Please see http://courses.chem.indiana.edu/documents/Student_Policies.pdf

HOMEWORK PROBLEMS: Suggested problems will be assigned. Work as many of them as you need to master the concepts involved. Problem sets will not be graded. It is appropriate for students to work together on assigned problems. **50% or more of the hour exam questions will be similar to, or identical to homework problems.**

HANDOUTS AND COURSE ASSIGNMENTS: All handouts and assignments will be put on the web. If you miss a lecture and do not get a handout or an assignment, or lose your handout, do not come to the lecturer or the AI to get them. You can get them off the web site or from a friend. Course notes will not be available from the instructor, but class summaries and review sheets will be posted periodically on the web site.

Professional Conduct and Behavior: It is essential that you develop a professional attitude toward classwork. Learning the material is your job and your responsibility. Unprofessional behavior, such as repeated lateness to lecture or discussion, sleeping in class, cell phone interruptions, eating and drinking (**eat breakfast before class**) or other disruptive activity, is not acceptable. Come to class prepared to learn and participate. The instructor will enforce suitable standards of professional conduct by whatever means he deems appropriate.

Cheating: Don't do it. If we catch you, you will get an F. It doesn't make sense to risk your academic career for the sake of trying to garner a few extra points on an exam.

C-485 TOPICS LIST- APPROXIMATE DATES AND SCHEDULE

<u>Week</u>	<u>Date</u>	<u>Topic</u>	
1	Aug. 31	Review Enzyme Basics	
	Sept. 2	Review Enzyme Basics	
2	4	Photosynthesis Ch 19	quiz 1
	7	Photosynthesis Ch 19	
	9	Photosynthesis Ch 19	
	11	Calvin Cycle Ch 20	quiz 2
3	14	Calvin Cycle Ch 20	
	16	Calvin Cycle Ch 20	
	18	Glycogen Metabolism Ch 21	quiz 3
4	21	Glycogen Metabolism Ch 21	

	23	Fatty Acid Metabolism Ch 22	
	25	HOURLY EXAM 1	
5	28	Fatty Acid Metabolism Ch 22	
	30	Fatty Acid Metabolism Ch 22	
	Oct. 2	Amino Acid Catabolism Ch 23	quiz 4
6	5	Amino Acid Catabolism Ch 23	
	7	Amino Acid Biosynthesis Ch 24	
	9	Amino Acid Biosynthesis Ch 24	quiz 5
7	12	Amino Acid Biosynthesis Ch 24	
	14	Amino Acid Biosynthesis Ch 24	
	16	Amino Acid Biosynthesis Ch 24	quiz 6

8	19	Nucleotide Biosynthesis Ch 25	
	21	Nucleotide Biosynthesis Ch 25	
	23	HOURLY EXAM 2	
9	26	Lipid Biosynthesis Ch 26	
	28	Lipid Biosynthesis Ch 26	
	30	Metabolism Ch 27	quiz 7
10	Nov. 2	Metabolism Ch 27	
	4	DNA Replication Ch 28	
	6	DNA Replication Ch 28	quiz 8
11	9	DNA Replication Ch 28	

	11	RNA Synthesis Ch 29	
	13	HOURLY EXAM 3	
12	16	RNA Synthesis Ch 29	
	18	Protein Synthesis Ch 30	
	20	Protein Synthesis Ch 30	quiz 9
13	23	Protein Synthesis Ch 30	

Thanksgiving Break.....

14	30	Gene Expression Ch 31	
	Dec. 2	Gene Expression Ch 31	
	4	HOURLY EXAM 4	
15	7	Modern Drug Design Ch 35	
	9	Modern Drug Design Ch 35	
	11	Modern Drug Design Ch 35	quiz 10

Final Exam: Friday, December 18 at 8:00am