

Biochemistry II

CHE / BIO 483

Spring 2006

Class time: MWF 11:00 - 11:50
Location: SC 402
Instructor: Dr. Stefan Paula
SC 452
paulas1@nku.edu
572-6552

Office hours: M 1:00 – 3:00
W 12:00 – 2:00
or by appointment

Text: *Fundamentals of Biochemistry: Life at the Molecular Level*
2nd Edition by Voet, Voet, & Pratt

Prerequisite: C or higher in CHE/BIO 482 (no exceptions)

Course description:

Advanced metabolism. Glycolysis, citric acid cycle, oxidative phosphorylation, photosynthesis, lipid and amino acid metabolism. Molecular modeling of ligand/protein interactions. Signal Transduction.

Grading:

grade distribution:

3 hourly exams, 20% each	60 %
final exam (M, 05/01/05)	25 %
in-class quizzes	5 %
homework	5 %
molecular modeling project	5 %

grade scale:

A	88 – 100 %
B	76 – 88 %
C	62 – 76 %
D	50 – 62 %
F	0 – 49 %

Exams, homework, quizzes:

There will be three one-hour exams and a comprehensive final exam (M, 05/01/05 from 10:10 - 12:10 pm).

Several homework problem sets will be assigned throughout the semester. They will be posted on Blackboard and collected in class. Late homework will not be accepted for credit.

Several *unannounced* quizzes will be given in class throughout the semester.

Questions regarding grading of exams, homework, and quizzes must be submitted to the instructor *within one week* after the work has been returned to students.

Attendance is not taken, but highly recommended. You are expected to come to class *on time*. You are responsible for the material covered in class and will find it difficult to do well in this course if you do not attend the lectures on a regular basis.

Missed Exams/Quizzes:

There are **no make-ups** for missed exams and quizzes. Missed exams and quizzes will count as zero, unless you have a **documented** medical or personal emergency **and** have **notified the instructor** in a timely fashion. You may miss one quiz without penalty since the quiz with the lowest score will be dropped at the end of the semester. If you miss an exam because of an emergency, the final exam will count **45% instead of 25%**.

Blackboard and Molecular Modeling Project:

Since some of the material presented in class and homework assignments will be posted on Blackboard, all students are required to obtain a username and a password. In order to complete the molecular modeling project, access to a personal computer with the freeware "DeepView" is required. Details about the project will be announced in class and/or posted on Blackboard.

Other Information:

The last day to drop the course with an X is January 30th, the last day to drop with a W is March 27th.

Honesty:

In accordance with the Student Honor Code, cheating will not be tolerated. A student found guilty of violating the code will receive an **F** for the course.

Tentative Schedule of Topics:

<i>Topic</i>	<i>Chapter in Textbook</i>
review of glycolysis	14
glycogen metabolism	15
citric acid cycle	16
Exam 1	
electron transport and oxidative phosphorylation	17
photosynthesis	18
Exam 2	
gluconeogenesis	15
pentose phosphate pathway	14
lipid metabolism	19
Exam 3	
amino acid metabolism	20
hormones and signal transduction	21
Final Exam	

This schedule is tentative and subject to change.

Policies of the Department of Chemistry at Northern Kentucky University

All items on syllabi are subject to change by the instructor.

Students are responsible for reading and understanding all items on the syllabi. Any items not understood must be brought to the attention of the instructor within the first two weeks of class.

The work you will do in any course is subject to the Student Honor Code. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain an academic advantage over fellow students or avoid academic requirements.

Cheating will not be tolerated. In accordance with the Code of Student Rights and Responsibilities, faculty members have the right to determine actions to be taken when a student is caught cheating.

Faculty members reserve the right to dismiss or to have removed a disruptive student from their classrooms.

This is a web enhanced course. Students meet at regularly scheduled class time and will need access to the internet to fulfill course requirements.