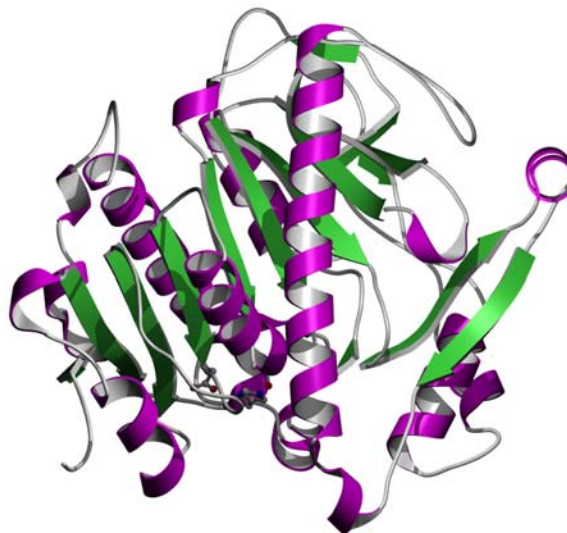


Chemistry 641 Biochemistry

Section 010 Tue/Thu 4:30-5:45pm, 217 Gore Hall
Section 011 Tue/Thu 9:30-10:45am, 217 Gore Hall

Prof. Brian Bahnson Lecturing 8/28 to 10/11
312 Drake Hall
Phone: 831-0786, E-mail: bahnson@udel.edu
<http://www.udel.edu/chem/bahnson/>
Office hours: Tue 10:45-11:45am, Thu 3:00-4:00pm, or by appointment

Prof. Colin Thorpe Lecturing 10/16 to 12/4
204B Drake Hall
Phone: 831-2689, E-mail: cthorpe@udel.edu
<http://www.udel.edu/chem/thorpe/>
Office hours: to be announced



Textbook and Teaching Aids

Lehninger Principles of Biochemistry, 4th ed., Nelson & Cox (ISBN 0-7167-4339-6)
Reading will be assigned in advance of the lectures covering the topic, and a list of chapter sections for each topic appears in the tentative course outline. Material in the reading that was not explicitly covered in lecture may appear on the exams. The Chem 641 web page will have required viewing or reading material.
<http://www.udel.edu/chem/bahnson/Chem641/>

Assigned Problem Sets

Problem sets will be assigned to help you learn the material. You will not need to turn in these problem sets. However, it is highly recommended that you thoroughly work the problems before the answers are posted. Previous exams will be posted for a similar purpose. Additionally, these problems may appear verbatim on each hourly exam and on the final.

Prerequisites

One year of Organic Chemistry or equivalent (CHEM 322 or CHEM 332).

Exams and Grading

Two hourly exams	100 points each
Final exam	150 points
TOTAL	350 points

Assigned grades will be based on the distribution of scores. Hourly exams will be given on SATURDAY Oct. 6 and SATURDAY Nov. 17 from 10am to noon.

There will be no make-up hourly exams. No exceptions will be made. In case of an excused absence, the other exams will be weighted accordingly to determine the grade.

E-mail

By far the best way to contact us is by e-mail (bahnson@udel.edu or cthorpe@udel.edu). We will make extensive use of e-mail to contact you on non-class days with corrections, clarifications, and announcements. If you regularly use an e-mail address other than your UD address, send an e-mail to Prof. Bahnson with your full name somewhere in the message, and we will add your preferred e-mail address to our class e-mail lists

Outline of Course

Topic	Chp. in Lehninger, 4th Ed.
Overview of Biochemistry	1
Water, pH and Ionic Equilibria	2
Amino Acids, Peptides, and Proteins	3
3D Structure of Proteins	4
Protein Function	5
Enzyme Kinetics, Regulation and Mechanism	6
Metabolism: An Overview	13
Glycolysis	14
Metabolic Regulation: glucose and glycogen	15
The Citric Acid Cycle	16
Fatty Acid Catabolism	17
Electron Transport and Oxidative Phosphorylation	19