

CHEM 400E: Fundamentals and Applications of Biorecognition

Spring 2011

Lectures: Tu, Th 5:30 – 6:45 p.m., FW 300

Instructor: Oliver Hofstetter

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Office hours: Tu, Th 10:50 – 11:50 a.m., or by appointment

Required text: No textbook is required. It is recommended to download the lecture slides, which will be made available at the University Blackboard internet site.

Tentative Lecture Schedule:

<u>Week Beginning</u>	<u>Lecture Topic</u>
January 17	Definitions of Biorecognition and Specificity; Protein Structure
January 24	Protein Folding and Denaturation
January 31	Determination of Macromolecular Structures
February 7	Bioconjugate Techniques
February 14	Bioconjugate Techniques (contd.)
February 21	Methods for the determination of ligand binding
February 28	Methods for the determination of ligand binding (contd.)
March 7	Methods for the determination of ligand binding (contd.)
March 14	No class – Spring Break
March 21	Protein-Ligand Interactions
March 28	Protein-Ligand Interactions (contd.)
April 4	Protein-Ligand Interactions (contd.)
April 11	Protein-Ligand Interactions (contd.)
April 18	Student Presentations
April 25	Student Presentations
May 2	Student Presentations

Grades: Grades will be based on a 30 min presentation on a selected topic (200 points = 50%), quizzes (100 pts. = 25%), and participation in the classroom (100 pts. = 25%).

Final Letter grades will be based on the total number of points as follows:

A \geq 90% (400 – 360 points), B 80 – 89% (320 – 359 points), C 70 – 79% (280 – 319 points), D 60 – 69% (240 – 279 points), F < 60% (< 240 points). This scale will not be raised, but it may be lowered.

If you have a disability or any other special circumstance that may have some impact on your work in this class, and for which you may require exam and/or other types of accommodations, please contact me early in the semester so that appropriate accommodations can be made in a timely manner. Please feel free to contact me by phone or to schedule and appointment. The NIU Center for Access-Ability Resources (CAAR), located on the 4th floor of the University Health Service (753-1303), is the designated office on campus to provide services and accommodations to students with diagnosed disabilities. You need to provide documentation of your disability to this office.