

PROTEINS AND ENZYMES

BIOC 565 (3 units)

Semester: Fall 2008

Meetings: BSW 208; MWF 9:00-9:50 am

Instructors: Vahe Bandarian, BSW 532, vahe@email.arizona.edu (course coordinator)
Matt Cordes, BSW 436, cordes@email.arizona.edu

Office Hours: *Bandarian:* Monday 11-12 or by appointment
Cordes: Monday 11-12 or by appointment

Website: <http://www.biochem.arizona.edu/classes/bioc565/>

Exams: Exam 1 (Cordes) September 29
Exam 2 (Bandarian) November 7
Exam 3 (Bandarian) December 10

Grading: Grades will be determined largely by exam scores and problem sets, which will be handed-out and graded through-out the semester.

Background: Students are expected to have completed undergraduate courses in Biochemistry and Physical Chemistry.

Text: Original scientific articles, reviews and handouts will be used to illustrate points. There is no required text; however, we recommend that you acquire either *Fersht* or *Creighton* (or both) to accompany the course material.

Alan Fersht, *Structure and Mechanism in Protein Science*, Freeman (1998).

Thomas E. Creighton, *Proteins: Structure and Molecular Properties* (2nd edition), Freeman (1993).

Kensal E. van Holde, W. Curtis Johnson and P. Shing Ho, *Principles of Physical Biochemistry*, (2nd edition), Pearson (2006).

Carl Branden & John Tooze, *Introduction to Protein Structure* (2nd edition), Garland (1999).

Computing: Students are expected to become familiar with the use of several software programs and the use of websites relevant to biological structure. For these purposes, each student will have a user account for the biochemistry computer lab in BSW 243. Students are welcome to use their own personal computers for this work as well, but instructors are likely to be unable (or unwilling) to fix computer-specific difficulties.