

Advanced Biochemistry CHEM 6331

Instructors: Dr. Ricardo A. Bernal Office CCSB G.0504 (x-6918)
Dr. Nathan C. VerBerkmoes Office BioScience Room 5.208 (x-6875)

Day, Time, and Location (room and building): TR 10:30-11:50am in CCSB 2.0610

Office Hours: By Appointment Only

Email Address: rbernal@utep.edu, ncverberkmoes@utep.edu

Textbooks: VerBerkmoes (suggested - Bioanalytical Chemistry 2nd Edition by Mikkelsen and Corton)
Bernal No Textbook required

Course Objective: Graduate students who complete this course will have a deeper understanding of principles and concepts of biochemistry that may then be of benefit to their current and future research.

Course Information and web-site:

The material related to this course (e.g., syllabus, news, reading material, slides, etc.) will be available through Blackboard. The instructor will update the information on the course website as needed, therefore you are encouraged to consult the information available on course website (Blackboard) on a weekly basis.

Prerequisites: It is recommended that students have taken Chem 3330/3332 or equivalent and have passed with at least a B before taking this course. A passing grade on the Biochemistry placement exam can be used in place of the CHEM 3330/3332 or equivalent.

Course Description: The course will focus on the function and structure of macromolecular complexes and proteins, lipids, biological membranes and bioenergetics, DNA structure/function, thermodynamics, protein folding and enzyme kinetics.

Course Grading: Final grades in the course will be determined using scores on each of four exams (two from each of the instructors). A simple average of the four exams will be used and ALL four exams count equally. No exam can be dropped. A curve may be applied at the instructor's discretion.

Withdrawal Policy: The last day for you to withdraw from any course with an automatic "W" is *listed in the University Calendar*. Please note that it is the student's responsibility to officially withdraw from a course or to request that professor to drop him/her.

Class Attendance: Class attendance is mandatory. Students are responsible for attending lecture regularly and knowing what takes place during classes. This includes not only the material covered in the class, but also all announcements, handouts, changes in the syllabus, etc. *If you must miss a class, you need to make a special effort to learn what occurred during your absence. It is expected that the material be read over *before* the topic is presented in class.*

Disability: If you have or suspect a disability and need accommodations you should contact Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or come by Room 106 Union East Building.

Tentative Schedule: (15 Lectures) Verberkmoes – Schedule provided separately
(Remaining Lectures) Bernal – Schedule provided separately