

BIOC-5085 Biophysical Methods in Biology

2018 Spring Semester:

- **Course Number:** BIOC 5085
- **Meeting Time:** Monday, Wednesday, Friday, from 9:00 am - 10:30 am
- **Room:** Room 421B-MED
- **Course Director:** [Dr. Borries Demeler, Room 420D, 210-767-3332](mailto:Dr.Borries.Demeler@uthscsa.edu)
- **Credit Hours:** 2
- **Class Number:** 2082
- **Book:** "The Physical and Chemical Basis of Molecular Biology" by Thomas E Creighton
- **Course Schedule:** <http://www.demeler.uthscsa.edu/biophysics/schedule.php> (to be updated for 2018)
- **Grading:** The course will be graded based on homework problems (40% weight), one midterm exam (20% weight), and one final exam (20% weight). Homework problems are assigned by each instructor, there will be one combined grade from each instructor, which is weighted by the number of lectures that were given by that instructor. All homework sets and exams are intended to be worked on by students individually, alone, and without input from others.
- **Grading scale:** A = 90-100% B = 80-89% C = 70-79% F = < 69%
- **Download Archive for BIOC 5085:** <http://www.demeler.uthscsa.edu/biophysics/archive>

The book is available as an E-book online and can be accessed at

<http://www.Myebook.com/HelvetianPress>. Individual chapters can be viewed online for free.

Additional class materials will be made available in the [download archive for BIOC 5085](#) and on the [institutional Blackboard site](#).

COURSE DESCRIPTION AND OBJECTIVES

This course covers biophysical methodology to investigate structure and function of biological molecules and macromolecular assemblies.

Pre-requisites – Calculus III, Linear Algebra, College Physics, Organic and Inorganic Chemistry

Upon completion, the student will be familiar with biophysical methods applied to biological problems and understand various experimental methods used for the interrogation of macromolecular function and structure.

COURSE ORGANIZATION

The main teaching modalities used in this course include:

See online course information at: <http://www.demeler.uthscsa.edu/biophysics/>

Materials – None required

Computer Access – optional

ATTENDANCE – required

REQUESTS FOR ACCOMODATIONS FOR DISABILITIES

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eo/request.asp>.

ACADEMIC INTEGRITY AND PROFESSIONALISM

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

TITLE IX AT UTHSCSA

Title IX Defined:

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads “no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

University of Texas Health Science Center San Antonio’s Commitment:

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

EMAIL POLICY

Students are expected to monitor their e-mail for course announcements.

USE OF RECORDING DEVICES

The use of recording devices is allowed.

ELECTRONIC DEVICES

The use of electronic devices is allowed.