

Department of Chemistry
The University of Texas at El Paso
Biophysical Chemistry

CHEM 4335 (CRN 25652)

Instructors: Prof. Lela Vuković (CCSB 2.0307)

Class meetings: CCSB 1.0202, Tue, Thu from 9 am to 10:20 am

Email: Lvukovic@utep.edu

Phone: (915) 747-7551

Office hours: by appointment. Please contact the instructor via Teams or email to arrange a meeting. Dr. Vukovic will also often be available in her office on Tue ~10:40 am to ~11:40 am, but it is better to announce yourself via email/Teams in case she otherwise steps out to her lab.

Course Description

This course covers chemical thermodynamics and its applications for discussing equilibria, reactions phase transitions and related bulk chemical phenomena. We will exemplify these principles with applications to the biochemical sciences. We will cover the general material in the first 8 chapters of the Textbook (Parts 1 and 2) and potentially cover some material from Parts 3 and 4 if time allows.

Textbook:

Physical Chemistry for The Life Sciences. P. Atkins, J. de Paula, Oxford University Press, Second Edition

Additional reading: Thomas Engel, Philip Reid, 3rd. Edition; *Pearson*.

Grading:

The grade for this course will be determined by homework (10% - turned in, graded for effort), attendance and participation (5% total), multiple tests (55% total) and the final exam (30%).

Tests will not be cumulative, but the Final Exam will build on all the previous material.

Attendance: required, will be taken randomly. No cell phone or laptop use in in-person classes.

Course Drop Policy: Drop date deadline is of April 1st, 2022.

All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. Although UTEP will allow a maximum of one year to complete this contract, the College of Science requests it be limited to month based upon completion data. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab.

Other considerations: Please turn your cell phones off and keep them away during lectures and practices.

Some aspects of the course may be changed, depending on the progress and conditions during the semester.

Disability. If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at (915) 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at <https://www.utep.edu/student-affairs/cass/>

COVID-19 PRECAUTION STATEMENT

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to

covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org.