Instructor: Allison Fleshman, SLSRC 3155, afleshman@ou.edu

Office Hours: MWF 11:00-Noon, CHBA 219 and by appointment at SLSRC.

Textbook: Physical Chemistry 4th Ed. by Laidler, Meiser, and Sanctuary

Prerequisites: CHEM 3423 with a grade of “C” or above; MATH 2433 or concurrent enrollment.

Course Objectives: To expose students to the fundamentals of physical chemistry, a discipline that is linked to every aspect of chemistry. The broad topics covered in this course are: Solution Chemistry, Electrochemistry, Quantum Mechanics, Spectroscopy, and Statistical Mechanics.

Course Outline:

Solutions & Electrochemistry ............................. approx 10 lectures
First Exam .........................................................February 8
Quantum Mechanics ................................. approx 11 lectures
Second Exam .........................................................March 8
Spectroscopy ................................................. approx 10 lectures
Third Exam .......................................................... April 10
Statistical Mechanics ......................................approx 8 lectures
Fourth Exam (Final/not comprehensive) .......... May 9

Grade Policy: All grading mistakes have to be resolved within one week after the quizzes or examinations are returned to the students. Grading mistakes found in the final examination have to be resolved immediately with the instructor.

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<th>Guaranteed Final Grades</th>
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Quizzes: A 10-minute quiz will be given every Friday (unless it is an Exam Day) at the beginning of class. NO MAKE-UP QUIZ WILL BE GIVEN Unless instructed otherwise, you are only
allowed to use the information provided on the quiz paper. You must bring your own calculator. Only the top **TEN** quizzes will be used to compute the final score.

**Homework**: Problem sets will be assigned weekly. It is essential that you work all of these problems and understand the course material at a satisfactory level. The problems encountered in the homework assignments will be of comparable or less difficulty as the problems encountered in the quizzes and examinations. Occasionally, a problem from homework assignments may be used in quizzes and examinations with minor numerical changes. The solutions will be posted on the website: learn.ou.edu when they are assigned. The solutions are there to help you if you get stuck on a problem. It is your responsibility to use the solutions to help you learn the material.

**Accommodation Policy**: Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me as soon as possible so that we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities. The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

**Holidays**: It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required classwork that may fall on religious holidays. Students who plan to observe a religious holiday should notify Dr. Fleshman as soon as possible in order to make appropriate arrangements for classwork or rescheduling of examinations.

**Disclaimer**: I reserve the right to change by addition and/or subtraction any and/or all materials contained in this syllabus. This includes, but is not limited to, course content, assignments, scheduled dates, and fraction(s) of the final grade assigned to individual items within the course. Although your attendance at the lecture is not required, you are responsible for any announcements made in class, including changes in the quiz and examination schedule, course content, assignments, scheduled dates, and fraction(s) of the grade assigned to individual items within the course. If changes become necessary, I will announce them as early as possible.

**Codes and Policies of Behavior Policy**: Each student should acquaint his or her self with the University codes, policies, and procedures involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on physical handicap. Students engaging in academic misconduct (including cheating, plagiarism, and any other action that may improperly affect evaluation) will be subject to sanctions in accordance with the Norman Campus Academic Misconduct Code.