

FALL 2020 ANALYTICAL CHEMISTRY CHEM 3310 – 11285

Instructor: Sreeprasad Sreenivasan, Ph.D.

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Office hours: Tuesday and Thursday 12:00 PM – 1:00 PM

Co-requisite: Laboratory CHEM 3110 (Lab Materials are posted on Blackboard)

Textbook: Quantitative Chemical Analysis, by Daniel Harris, 10th Edition, ISBN-ISBN:9781319164300 (available through sapling learning tool), can be accessed through BB.

Objectives: This course is to provide a sound understanding of the principles of analytical chemistry, and to show how these principles can be applied in chemistry and related disciplines such as life sciences and environmental science. Specific objectives are:

- ⇒ To gain knowledge of safe and proper laboratory practice
- ⇒ To be familiar with traditional analytical techniques
- ⇒ To understand the chemistry that deals with the separation, identification and determination of components in a sample
- ⇒ To develop the skill of statistical analysis of the data
- ⇒ To be able to connect analytical chemistry with your course work as well as your daily life

Evaluation:

- a) Practice Quiz (one-time quiz posted in week 1) + in lecture quiz+ assignment 5 %
- b) Sapling quizzes/Assignment 25 %
- c) Midterm Exams 40 %
- d) Final Exam 30 %

Grade Breakdown: 100 ----- 90 ----- 80 ----- 70----- 55 ----- 0
A B C D F

- a) **Practice Quiz + in lecture quizzes and assignments** – Practice quiz includes questions from chapter 0-2 and is mandatory for all students. Helps you to understand the concepts and also to familiarize with the sapling learning tool. There will be in lecture quizzes and assignments for each lecture. All together will give 5 % of total grade.

- b) **Quizzes/Assignment** - There will be quizzes uploaded into sapling learning tool after each chapter. You will be able to attend the quizzes through your account in sapling.
- c) **Exams** – Two exams will be given during the semester. See the calendar for the dates of the exam.
- d) **Final Exam (Comprehensive)** – The exam contains ALL materials covered in class during the semester.

All students must login to the sapling learning tool (available through blackboard) in order to access the course textbook, quizzes, and exams.

What is expected from you?

- Ask questions when you do not understand the contents of my teaching or the materials.
- Bring the textbook, a calculator and a Periodic Table to every class and exam.
- Check out the Blackboard site of this class for any announcement or assignment.
- Do your best so you will be proud of the effort you have put into the course.

What can you expect from me?

- Every lecture will be prepared so that you will not waste your time, \$, and energy for taking this class.
- Help will be available to help you learn the materials.
- Grading will be fair. **I DO NOT “CURVE”**. So, please don't ask me again.
- I will be challenging and ready to be challenged.

Important points.

- **Make-up exams will not be given** unless prior arrangement is made with the instructor. Please consider carefully the repercussions of making other commitments that coincide with exam days. Official documents are required for any exam rearrangement.
- Cell phones must be turned off or silenced during the class. Students who fail to comply with this policy will be asked to leave the classroom.

- The syllabus is subject to change. However, any changes to this syllabus and the course will be announced in class and posted online. You are solely responsible for getting the most updated information regarding to the class.

Academic honesty

Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action.

Students with Disabilities

Student with a disability can contact Disabled Student Services to take exams with appropriate accommodations. The office is located in Room 106 Union East Building and can be contacted at (915) 747-5148 Voice/TTY, (915) 747-8712 Fax or at dss@utep.edu. If you have or believe you have a disability, you may do so by providing documentation to the Office of disabled Student Services.

Course Withdrawal Policy

Classes dropped prior to the official census date (09/09) will be deleted from the student's semester record. After this date, the University permits any student to drop with an automatic "W" by the course dropping deadline (10/30). After this date students who withdraw must receive grades of "F".

Detailed plan of the course is given in the next page

Calendar: The content is tentative and subject to change

| Week no. | Week | Tuesday | Thursday | Note |
|----------|-------------|---|---------------------------|--|
| 1 | 08/24-08/28 | 08/25 Introduction and syllabus discussion | 08/27 Chapter 0-2 | |
| 2 | 08/31-09/04 | 09/01 Chapter 3 | 09/03 Chapter 3 | |
| 3 | 09/07-09/11 | 09/08 Chapter 4 | 09/010 Chapter 4 | 09/09 Fall Census Day |
| 4 | 09/14-09/18 | 09/15 Chapter 6 | 09/17 Chapter 6 | |
| 5 | 09/21-09/25 | 09/22 Chapter 6 | 09/24 Chapter 6 | |
| 6 | 09/28-10/02 | 09/28 Chapter 6 | 10/01 Exam 1 | |
| 7 | 10/05-10/09 | 10/06 Chapter 7 | 10/08 Chapter 7 | |
| 8 | 10/12-10/16 | 10/13 Chapter 7 | 10/15 Chapter 7 | |
| 9 | 10/19-10/23 | 10/20 Chapter 8 | 10/22 Chapter 8 | |
| 10 | 10/26-10/30 | 10/27 Chapter 8 | 10/29 Chapter 8 | 10/30 Deadline Drop/Withdrawal |
| 11 | 11/02-11/06 | 11/03 Chapter 9 | 11/05 Exam 2 | Exam based on Chp 7,8,9 (open book) |
| 12 | 11/09-11/13 | 11/10 Chapter 11 | 11/12 Chapter 11 | |
| 13 | 11/16-11/20 | 11/17 Chapter 11 | 11/19 Chapter 11 | |
| 14 | 11/23-11/27 | 11/24 Chapter 14 | Thanksgiving, No Class | 11/26-11/27 Thanksgiving Holiday |
| 15 | 11/30-12/04 | 12/01 Chapter 14 | 12/03 Chapter 14 | 12/03-Last day of class 12/04- Dead day |
| 16 | 12/07-12/11 | Final Exam Thursday, Dec 10, 10 AM to 1 PM | | |