

# Instrumental Analysis - CHEM 4211

## Syllabus - Spring 2025

CRN 23677

**Meeting times:** MW 10:30 AM – 11:50 AM

**Location:** CCSB 1.0204

**Instructor:** Dr. Saupé

**Instructor office:** PSCI 104 or 203-D, see door notes.

**Office phone:** 915 747 7559

**Office hours:** TBA

Welcome to class. In this instrumental analysis course you will learn about several instrumental techniques for analyzing chemical samples. With proper preparation, pure chemicals, as well as mixtures, metals, nonmetals, and natural biological substances can be analyzed and quantified with modern instrumentation. The theories of operation for each instrument type and their practical and appropriate uses will be covered. To view covered topics see our textbook publisher's website link below and open the table of contents.

**Required textbook** (paper or e-book is OK): Principles of Instrumental Analysis, 7th edition, by Douglas A. **Skoog**, F. James **Holler**, Stanley R. **Crouch**.

The publisher is Cengage: <https://www.cengage.com/c/student/9781305577213/>

Our homework assignments will not require any online subscriptions. So the textbook is all you need to buy. There are several vendor choices for the textbook, including directly from the publisher [Cengage](https://www.cengage.com), online book retailers like Amazon etc, and the UTEP bookstore. You might even find a hard copy in our library. E-book or hard copy options are equally acceptable.

Please order your book as soon as possible, as shipping takes several days to complete (if a hard copy), and reading and homework assignments will begin right away.

**Reading:** You will be expected to keep up with the reading assignments. Reading of handouts and internet resources will be used to supplement the textbook. **By default**, reading in our textbook and supplements corresponding to current lecture topics will be expected on a daily basis.

**Grading policy:** Your final course average will be calculated using the following criteria.

**Quizzes:** During each class period, quizzes will be given over course material. Your average quiz grade will be calculated using these quiz grades. Make-up quizzes will not be given.

Please consider carefully the repercussions of making other commitments or schedules that conflict with class lecture days. Ask your parents now about future doctor appointments, etc. that may conflict, so you can reschedule them. If missing a future class is unavoidable, you may arrange to take a **quiz early, but not late**. One week advance notice is needed to arrange an early quiz. I will be happy to work with you to resolve conflicts.

**Homework:** Take-home assignments will be graded and used to calculate your homework average. Homework assignments turned in late for up to 7 days late will receive a 25 % points reduction in grade. Assignments turned in more than one week late will receive a grade of 0 points.

**Exams:** No regular, so-called “mid-term” exams will given. HOWEVER, we will be having a final exam during finals week at the end of the semester.

**End of course grade:** Your course average will be calculated using the following weighting factors.

Quiz average	70%
Homework average	15%
Final exam grade	15%

**If you have special needs** please let me know as soon as possible. UTEP has a Center of Accommodations and Student Services (CASS). You will need to work through that office to arrange any official accommodations.

If you are a graduate student, please let me know. You will have extra assignments to receive graduate credit for this course.

**Checklist for a good grade in this course:**

1. Use office hours frequently to strengthen your knowledge of course topics.
2. Read the upcoming textbook topics before each class.
3. Come to class and take your own good notes. Study them and rewrite them after each class.
4. Work all of the homework problems and seek clarification if you do not understand.
5. Work out all mistakes on quizzes soon after the quiz.

**If you miss a class, YOU are responsible for obtaining class notes from a classmate and for any material or announcements missed.**

You must bring your own calculator to every class. Please turn off all communication electronics while the class is in session.

Changes and corrections to this syllabus and to the course content are possible at any time, and if so, will be discussed in class.