

CHEM 3200 - INSTRUMENTAL ANALYSIS

Syllabus

Instructor: Dr. R. Fietkau **Email:** ronald.fietkau@gcsu.edu
Office: Herty Hall 316 **URL:** http://hercules.gcsu.edu/~rfietkau/
Telephone: 478.445.5760

I. LECTURE SCHEDULE

CHEM 3200 Section 01 CRN 20004 1100-1215 T R Herty Hall 308

II. TEXT

Principles of Instrumental Analysis, Sixth Edition, Douglas A. Skoog, F. James Holler, and Stanley R. Crouch, Thompson, Belmont, CA, 2007.

III. COURSE OBJECTIVES

By the end of the course the student is expected to

- A. understand the fundamentals of chemical instrumental analysis as outlined below.
- B. have developed skills to solve problems in analytical chemistry with emphasis on instrumental methods.
- C. be familiar with common analytical laboratory techniques and methods with emphasis on instrumental methods.

IV. COURSE OUTLINE

- A. Introduction to Chemical Instrumental Analysis
- B. Atomic Spectroscopy
- C. Molecular Spectroscopy
- D. Electroanalytical Chemistry
- E. Separation Methods

IV. GRADING SYSTEM

- A. *Homework Assignments* - (worth 10% of your grade)
- B. *Presentation* - (worth 10% of your grade)
- B. *Exams* (worth 80% of your course grade) - There will be three in class exams and one comprehensive final exam. One of the in class exam scores will be dropped from the final grade calculation. The in class exams are worth 20% each and the final 40%. Note that a missed exam will not be "made up".
- C. *Letter grade* ranges are: **A** 100-90%; **B** 89-80%; **C** 79-70%; **D** 69-60%; **F** <60%. Note that these values are approximate and can be changed in either direction.

VI. CLASS POLICIES

A. Attendance

1. The student is **expected** to attend lectures and is responsible for all material covered and assigned in scheduled class meetings.
2. Attendance during testing periods is **mandatory** unless **prior** arrangements are made.

B. Cheating and plagiarism

1. The Student Academic Dishonesty Policy and its accompanying procedures will be applied as described in the current college catalog.

C. Fire drill procedures

1. In the event of a fire signal students will exit the building in a quick and orderly manner through the nearest hallway exit. Learn the floor plan and exits of this building. Do not use elevators. Crawl on the floor if you encounter heavy smoke. Assist disabled persons and others if possible without endangering your own life. Assemble for a head count north of the building in the Montgomery Street Parking Lot.

VII. MISCELLANEOUS

- A. Final grades can be viewed via the internet once they have been submitted.

Office hours are posted on the door to my office or you can make an appointment.