

Chem 133 – Chemical Instrumentation

Spring 2010

Instructor: Brad Baker

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Office Hours: Wednesday, 10:00 to 11:30 in Sequoia 530

Thursday, 12:30 to 2:00 in Sequoia 530

and by appointment

Course website: <http://www.csus.edu/indiv/b/bakerb/Chem133/Index.htm>

Lecture Meeting Time: Tuesdays and Thursdays 2:30 to 3:20 pm

Lecture Location: Sequoia 450

Lab Meeting Times: Tuesdays and Thursdays, 3:30 to 6:20 pm

Lab Location: Sequoia 516

Midterm exams: March 18 during regularly scheduled class time, and May 20 during the scheduled final exam period (12:45 – 2:45).

Textbooks: Quantitative Chemical Analysis (seventh edition), by Daniel C. Harris (required)
Chemical Instrumentation, by Richard P. Wayne (optional)

Lab Manual: Chemical Instrumentation (required)

Furlough Dates: March 2 and March 25

Prerequisites: A C- or better in CHEM 031, CHEM 140B or CHEM 142, and ENGL 020.

Overview: Modern chemical instrumentation is ubiquitous in today's chemistry laboratory. The advantages of this instrumentation over traditional bench chemistry include improved selectivity and sensitivity, ease of use, and exceptionally fast analysis time. In this course we will investigate the theory behind modern chemical instrumentation, learn the major strengths and weaknesses of different instruments and practice using common analysis techniques in the laboratory.

Tentative Lecture Schedule (This could change):

Week of: January 25 – Basic electronics (Wayne, pp 1-13, 16-17)

February 1 – Electronics and measurements (Wayne, pp 20-25, 34-36)

February 8 – Transducers, Noise (Wayne, pp 39-46, 50-58)

February 15 – Noise reduction, Spectroscopy (Wayne, pp 61-68; Harris, Chapter 18)

February 22 – Molecular Spectroscopy (Harris, Chapter 20)

March 1 – Molecular Spectroscopy

March 8 – Atomic Spectroscopy (Harris, Chapter 21)

March 15 – Atomic Spectroscopy

March 22 – Mass spectroscopy (Harris, Chapter 22)

April 5 – Mass Spectroscopy, Nuclear magnetic spectroscopy (selected readings)

April 12 – Nuclear magnetic spectroscopy

April 19 – Chromatography (Harris, Chapter 23)

April 26 – Chromatography, Gas chromatography (Harris, Chapter 24)

Chem 133 Lab Manual

Ying-Ying Zheng



Chem 133 Lab Manual:

Decoding **Chem 133 Lab Manual**: Revealing the Captivating Potential of Verbal Expression

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