

Chemistry 353 Abbreviated Syllabus

Instructor: David Harvey
Office: Julian 323
Phone: 658-4608 (office)
Phone: 653-2685 (home)
E-Mail: harvey@depauw.edu

Class Meetings: MW from 10:10 – 11:00 in Julian 372

Course Goals. Chem 353 provides an introduction to instrumental methods of analysis with a focus this semester on atomic and molecular spectroscopy, and the analysis of surfaces. As we move through the semester we will:

- examine common instrumental designs and explore how they produce a useful analytical signal
- consider the problem of noise in analytical signals
- explore the relationship between an instrument's signal, the sample's matrix and/or the analyte's concentration
- review, where appropriate, the quantitative and qualitative applications of instrumental methods
- learn how to characterize an analytical method's advantages and disadvantages
- become familiar with the primary analytical literature

Course Website. Many useful materials, including a list of readings and assignments, copies of course materials, and answer keys to worksheets, suggested problems, and exams, are available at the course's website. The link to the site is:

<http://fs6.depauw.edu:50080/~harvey/Chem%20353/index.html>

Course Evaluation. Your evaluation in this course is based on two exams (tentative dates are the week of March 10th and Monday, May 12th), and any or all of the following, depending upon how the spirit moves us during the term: problem sets, mini-experiments, data analysis projects, short papers, oral presentations, participation in discussion or other as yet undreamt of assignments.

Official Syllabus. A more detailed, official syllabus is available on the course's website. You are responsible for reading and understanding the syllabus.