

CHEMISTRY 221
Fall 2005
Syllabus

Texts: Quantitative Chemical Analysis, Daniel C. Harris, 6th Ed. , W.H. Freeman, 2003.
Applications of Microsoft EXCEL in Analytical Chemistry, Stanley R.Crouch, F. James Holler, 2004.

Lecturer: Professor Susan V. Olesik, 3033 D McPherson Lab, olesik.1@osu.edu

Office Hours: 3:00 - 4:00 pm Wed, Friday or by appointment 292-0733

Teaching Assistants: Nathan Gaubert, Bill Hockaday, Kaarina Lokko, Philippe Nadaud,
Miaja Umaedi, Liwen Wang

Laboratory Supervisor: Dr. Ted Clark

Lectures: M/W/F 9:30am 2004 Evans Lab

<u>Dates</u>	<u>Topic</u>	<u>Reading Assignment (Chapter in Harris)</u>
Sept 21,23,26	Measurement/Experimental Errors	1 and 3
Sept 26,28,30	Statistics: including probability distribution, Confidence Intervals, t-test, F-test and Least Squares	4
Oct 3, 5 , 7	Chemical Equilibrium and Activity	6, 8, 9
Oct.10,12,14 Oct 17, 21	Acid/Base Equilibria and	10,11,12
Oct 24, 26, 28 Oct 31	Electrochemistry	14,15
Nov 2,4,7 Nov 9,14	Spectroscopy	19,20,21
Nov 18,21,23 Nov. 28, 30, 2	Separations, Gas and Liquid Chromatography	23,24,25

Midterm Examinations: Oct 19 th, 6:00 pm: Nov 16 6:00 pm

Final Examination: Dec 7, 7:30 am - 9:18 am

Grading:

Lectures 60% (Quizzes 5%, Midterms 20%, 20% and Final 15 %)

Lab 40%
100%

Quizzes: Take home quizzes will be provided in an unannounced fashion throughout the quarter. If you are not in class, you will not get the quiz. This includes any extenuating circumstances. You will allowed to drop one quiz grade. If you have an extenuating circumstance that will be covered by the dropped quiz.

Problem Sets: A problem set will be assigned each Monday. The answers are available in the published answer book. Problem Sets will not be graded.

Exam Grading Policy: If you wish to have an exam question regraded, turn in a written description of your concern no later than one class period after you received the original graded exam. Each exam in question will be regraded entirely.

All submitted work on exams, quizzes and laboratories reports must be **your own**.

Disability Services: All students with documented disabilities, who need accommodations, should see the instructor privately to schedule an appointment as early in the quarter as possible. If your disability requires materials in alternative format, please contact the Office for Disability Services at Room 150 Pomerene Hall (292-3307).