

QUANTITATIVE CHEMICAL ANALYSIS

Chemistry 221

MWF, 9:30 AM, 2004 Evans Laboratory

Autumn Quarter 2008

Lecturer: Philip Grandinetti

Phone: (614) 292-6818

Office Hours: Wednesday, Friday 10:30-11:30 AM

Web Page: <http://www.grandinetti.org/Teaching/Chem221>

Required Text: "Quantitative Chemical Analysis", Seventh Edition, Daniel C. Harris

Office: 0044B McPherson Lab

Contact: www.grandinetti.org/Contact

Teaching Assistants:

Patrick Gray, pgray@chemistry.ohio-state.edu

Gwen Philibert, gphilibe@chemistry.ohio-state.edu

Julia Rabe, [jrabe@chemistry.ohio-state.edu](mailto:jgabe@chemistry.ohio-state.edu)

Jia You, jyou@chemistry.ohio-state.edu

Grading:

Laboratory 40%

Mid-term Exam 30%

Final Exam 30%

Syllabus:

Week	Lecture Topic(s)	Chapter(s)
1	Statistical Description of Data	1
2	Data Analysis	3-5
3	Chemical Equilibrium, Activity	6,8,9
4	Acid-Base Equilibria, Acid-Base Titrations	10-12
5	Electrochemistry	14,15

Midterm Exam - Nov. 6th, Thursday, 6:00-8:00 pm - Room: Room: 1015 McPherson Lab

6	Redox Titrations	16
7	Spectrophotometry	18,19
8	Spectrophotometry Instrumentation	20
9	Atomic and Mass Spectroscopy,	21,22
10	Separations, Chromatography	23-25

Final Exam - Tuesday, Dec. 9th, 9:30-11:18 am - Room 2004 Evans Lab

To have an exam question re-graded, turn in a written description of your concern no later than **one class period** after the exam was returned to you. Each exam in question will be re-graded in its entirety.

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 292-3307, Room 150 Pomerene Hall.

Copyright 2008 Philip J. Grandinetti as to this syllabus and all lectures. Students are prohibited from selling (or being paid for taking) notes during this course to or by any person or commercial firm without the express written permission of Philip J. Grandinetti