

CHM 618 Syllabus
Metals in Organic Chemistry
Brett Lucht, blucht@chm.uri.edu

Office Hours: By Appointment

Lecture: TuTh 12:30-1:45, Beaupre 300

Book: Surface Analysis: The Principal Techniques, Second Edition, J. C. Vickerman and I. S. Gilmore, ISBN 978-0-470-01763-0 (\$60 Amazon)

Course Description:

In-depth presentation of theory of surface analysis methods. Emphasis on methods development, advanced topics, and current advances using electron spectroscopy, surface mass spectroscopy, and surface vibrational spectroscopy.

Course Content:

Week of:

1/21	Introduction to Surface Analysis
1/28	XPS
2/4	XPS
2/11	XPS Lab introduction
2/18	AES/SIMS
2/25	SIMS (mid-term Exam 2/28)
3/4	No class
3/11	Spring Break
3/18	Vibrational Spectroscopy
3/25	STM/AFM
4/1	TEM and SEM
4/8	Student Presentations
4/15	Student Presentations
4/22	Student Presentations
4/30	Review

Final Exam TBD

Course Grading:

Problem sets	2x50 pts
Final Exam	100 pts
Presentation	100 pts