

Chemistry 424 Spring 2003

Tentative Schedule of Lectures and Labs

<u>Week</u>	<u>Day</u>	<u>Date</u>	<u>Text</u>	<u>Topic</u>	<u>Lab</u>
1	R	1/9		Administrivia	None
2	T	1/14	1,(4)	Introduction	Check-in, safety
	R	1/16	5	Measurement and signal recovery	
3	T	1/21	6,8,13	Absorption/emission spectroscopy	flame photometry
	R	1/23	6,7	UV-Vis instrumentation	
4	T	1/28	10,14	UV-Vis methods	Hg analysis
	R	1/30	10,15	Fluorescence and phosphorescence	
5	T	2/4	9	Flame emission/atomic absorption	Fe lab: UV-Vis
	R	2/6	16	IR methods	
6	T	2/11	17	IR application	fluorimetry
	R	2/13	18	Raman	
7	T	2/18	12	X-ray methods, instrumentation	NMR
	R*	2/20	21	XPS, AES; surface analysis	
8	T	2/25	21	Surface analysis cont'd	GC-MS Grob Test
	R	2/27	32	Radiochemistry, NAA	
9	T	3/4	19	NMR	GC-MS BTEX/SPME
	R	3/6	19	NMR	
10	T	3/11	11,20	Mass spectrometry	Electrochem CVs
	R	3/13	11,20	Mass spectrometry methods	
11	T	3/18	26	Chromatography	HPLC
	R	3/20	27	Gas chromatography	
12	T	3/25	28	HPLC theory and instrumentation	Practical
	R	3/27	28,(29)	HPLC methods	
13	T	4/1		Sampling methods	Practical
	R	4/3	22	Electrochemical methods	
14	T	4/8		<i>SPRING BREAK!</i>	
	R	4/10			

15	T	4/15	23	Potentiometry	Practical
	R	4/17	25	Voltammetry	
16	T	4/22	30	Electroseparations	Practical
	R*	4/24		<i>push-back/overtime, special topics</i>	
17	T	4/29		<i>push-back/overtime, special topics</i>	Practical
	R#	5/1		DivCHED Review	

Final Exam: Monday 5/7/00, 8:00 am.

*- First full lab report due

#- Second full lab report due