

Chemistry 61. Instrumental Analysis: Updated Course Schedule (11 November 2002)

Date	Day	Due	Lecture Topics/Other Activity	Reading (in Skoog unless noted)
10/3	Th		TEST 1: Classes thru 9/27; PS 1, 2, 3	IN ROOM 302
10/4	F		Wavelength selectors	147-150, Lasers Chapter 2
10/7	M		Lasers: Quantum fundamentals	147-150, Lasers Chapter 2
10/9	W	PS 4	Lasers: Optical fundamentals	Lasers Chapter 2
10/10	Th		<i>Lab: Diode Array Spectrometer</i>	IN ROOM 364, 385, or 387
10/11	F		Lasers: Optical fundamentals	Lasers Chapter 2
10/14	M		Laser distinctives	Lasers Chapter 1
10/16	W		Tunable lasers	Lasers 48-50, 65-67
10/17	Th		<i>Lab: Diode Array Spectrometer</i>	IN ROOM 364, 385, or 387
10/18	F		Detectors	128-130, 167-178
10/21	M		Detectors	128-130, 167-178
10/23	W	PS 5	UV/Vis/IR instruments: overview	314-325, 397-399
10/24	Th		Fall Break—no class	
10/25	F		Fall Break—no class	
10/28	M		Noise and Beer's law	300-310
10/30	W		Time domain spectroscopy	57-58, 473-474
10/31	Th		<i>Lab: Diode Array Spectrometer</i>	IN ROOM 364, 385, or 387
11/1	F		Fourier transform methods	120-121, 182-189, 392-396
11/4	M	PS 6	Fourier transform methods	120-121, 182-189, 392-396
11/6	W		Fourier transform methods	120-121, 182-189, 392-396
11/7	Th		TEST 2: Classes thru 10/30; PS 4, 5, 6	IN ROOM 370
11/8	F		NMR fundamentals	445-456
11/11	M		NMR fundamentals	445-456
11/13	W		NMR fundamentals	445-456
11/14	Th		<i>Lab: Diode Array Spectrometer</i>	IN ROOM 364, 385, or 387
11/15	F		NMR instrumentation	470-476
11/18	M	Prop	X-rays: Physical fundamentals	272-275
11/20	W		Atomic X-ray spectroscopy	276-289
11/21	Th		<i>Lab: Diode Array Spectrometer</i>	IN ROOM 364, 385, or 387
11/22	F	LAB	Atomic X-ray spectroscopy	276-289
11/25	M		Tour Keck Lab (Jeff Thole)	
11/27	W		Atomic X-ray spectroscopy	276-289
11/28	Th		Thanksgiving Holiday—no class	
11/29	F		Thanksgiving Holiday—no class	
12/2	M		TOF and FT-ICR mass spectrometry	260-261, 519-521
12/4	W		Lab clean-up	IN ROOM 364, 385, or 387
12/5	Th		TEST 3: Classes from 10/30 to 12/2	IN ROOM 370
12/6	F		Oral reports in class	
12/9	M		Oral reports in class	
12/11	W		Oral reports in class	
12/13	F		Oral report in class; course evaluations	

Your final paper is due Monday, December 16. (This is in lieu of a final exam.)

See the back for suggested homework problems.

As announced in class on November 8, there will be no more graded problem sets for the balance of the semester. However, it is in your best interest to do (at least) the following problems from Skoog to engage the material and to prepare for the final test of the semester.

Fourier-Transform Infrared Spectroscopy: 7-22, 7-23, 16-8, 16-12

Nuclear Magnetic Resonance Spectroscopy: 19-6, 19-7, 19-9, 19-10, 19-11

X-Ray Spectrometry: 12-2, 12-3, 12-9