Spring 2016 Chemistry 14CL Laboratory Schedule and Assignment (Last Day to Drop Impacted class: April 8, 2016)

SAFETY GLASSES AND FLAME-RESISTANT LAB COATS MUST BE WORN IN THE LABORATORY STARTING ON THE FIRST MEETING. FAILURE TO DO SO WILL RESULT IN DISMISSAL FROM THE LABORATORY.

Date	Experiment ¹	Videotape ²	Recommended Reading ³	Post-labs Due Date ⁴
3/29-3/30	1: Check-in, Pipet Calibration (1)	Safety (#5805) Use of a Pipet	M p. 3-20, 32-39	NONE
3/31-4/6	8: Titration of an Unknown Amino Acid (2)		AJ p. 475-496; B p. 1120-1128	4/12 & 4/13
4/7-4/8	Determination of Iron in Vitamin (1) (Handout)	Spectrophotometry	B p. 1065; AJ p. F 47-F 50, p. F 77- F 84	4/14 & 4/15
4/12-4/15	7a: Extraction of Caffeine (2)	Extraction (#3132)	M p. 142-173	One postlab for 7a refer to due date shown below 4/28 & 4/29
4/19-4/20	7b: Spartan Infrared Spectroscopy (1)	Infrared (#3139)	B Ch. 12 & Ch. 14	
4/21-4/22	7a: Analysis of Caffeine (1)		M p. 255-269; p. 311-347; p. 441-464	4/28 & 4/29
4/26-4/29	Titrimetric Analysis of Vitamin C (2) (Handouts)		AJ p. 515-542; p. F 47-F 50, p. F 77- F 84	5/5 & 5/6
5/3-5/4	6: Aldol condensation (1)	Melting Point Determination	M p. 211-220, p. 221-235	5/12 & 5/13
5/5-5/6	Molecular Modeling (1) (Handout)	(#3138)		5/12 & 5/13
5/10-5/11	Isolation of Chlorophyll and Carotenoid Pigments from Spinach (Handouts) (1)	Column Chromatography (#3133)	M p. 270-291	One post-lab for Spinach
5/12-5/13	Characterization of Pigments isolated from Spinach (1)	Thin Layer Chromatography	B p. 1110-1112, M p. 255-269	5/19 & 5/20
5/17-5/18	15: ¹³ C NMR and DEPT Spectra (1)		M p. 408-429; B p. 538-540	5/17 & 5/18
5/19-5/20	10: Oxidation of Borneol to Camphor (1) (Handouts)		M p. 142-173; AJ p. 515 - 542;	for due date see below
5/24-5/27	9: Distillation & Gas Chromatography (2)	Distillation (#3134) GC (#3134)	М р. 173-196 М р. 291-307	5/31 & 6/1
5/31-6/1	10: Analysis of Camphor (1)			6/2 & 6/3
6/2-6/3	Lab Clean-up & Review for Final (Attendance is mandatory)			

1. Chemistry Experiments for Life Science Majors, Second Edition, A.A. Russell, Burgess Publishing Company.

2. Instructional Media Library, Powell 270 or on the WWW (http://www2.oid.ucla.edu/Webcast/chemistry)

3. M= Mohrig (Organic Techniques, 4th edition), B= Brown (Organic chemistry, 7th edition), AJ= Atkins and Jones (The Quest for Insight, 5th edition)

4. Pre-lab reports (if any) are due at the **beginning** of the lab period; observations and data are due at the end of the lab period in which the data are taken; post-lab reports are due at the beginning of your regularly scheduled lab period one week after the experiment is finished.

NO WORK WILL BE ACCEPTED AFTER 4:00 P.M. Friday, 6/3/2016