Summer 09

CHEMISTRY 108M (second session)

Laboratory Textbook: *Experimental Organic Chemistry*, Daniel Palleros, Wiley, New York, 2000

Important Summer Session 2009 Dates

	Session I	7-wk Sess	8-wk Sess	10-wk Sess	Session II
Last day to **enroll/add** online	June 27 (Sat) (11:59 pm)	June 27 (Sat) (11:59 pm)	June 27 (Sat) (11:59 pm)	July 4 (Sat) (11:59 pm)	Aug 1 (Sat) (11:59 pm)
Last day to **drop** online	June 28 (Sun) (11:59 pm)	June 28 (Sun) (11:59 pm)	June 28 (Sun) (11:59 pm)	July 5 (Sun) (11:59 pm)	Aug 2 (Sun) (11:59 pm)
Withdrawal Period at Summer Office (no refund)	June 29 – July 10 (8:00-4:00)	June 29 – July 17 (8:00-4:00)	June 29 – July 24 (8:00-4:00)	July 6 – July 31 (8:00-4:00)	August 3 – August 14 (8:00-4:00)
Note that during Summer Session there is no auditing of classes, no "Add by Petition" and no "Administrative Drop by Instructor". Failure to attend class does not constitute a "Drop". All deadlines are final.					

Tentative Lecture Schedule

Lecture	Subject
1	Acid-base Extraction.
2	IR Tables. ^{1}H-NMR Spectroscopy
3	Preparation of Phenacetin. ^{1}H-NMR Spectroscopy
4	Electrophilic Aromatic Substitution. Applications of ^{1}H-NMR
5	Applications of ^{1}H-NMR
6	Aldehydes and Ketones. Applications of ^{1}H-NMR
7	Esters. Applications of ^{1}H-NMR
8	Chemistry of milk
9	^{13}C-NMR. Combined Problems (IR, ^{1}H- and ^{13}C-NMR)
10	Mass Spectrometry

A 1.5 hr written final exam

Tentative Laboratory Schedule

week	Exp #	Title
1. 1st day	14 B	Check-in. Isolation of the Active Ingredients in Excedrin
2nd day	14 B	Continue Isolation of the Active Ingredients in
2. 1st day	**15**	Medicinal Chemistry: Synthesis of Phenacetin
2nd day	16 A	Iodination of Tyrosine
3. 1st day	**16B**	Bromination of Phenacetin

2nd day	**20B**	Synthesis of *trans*-Cinnamic Acid
4. 1st day	**22A**	Preparation of methyl *trans*-cinnamate
2nd day	24	Chemistry of Milk (selected parts)
5. 1st day	24	Chemistry of Milk. Check-out