

Chem. 343
Tentative Laboratory Schedule
SPRING 2007

<u>Beginning</u>	<u>Exercise</u>	<u>Pre-lab Reading</u>
Mon. 1/8 – Thurs. 1/11	Check-in, Safety, Orientation, Protocol and Introduction to Equipment to be Used	Zubrick, 5 th edition (hence forward referred to as "Z"), Chapters 1-9
Wed. 1/17 - Mon. 1/22	Identification of Unknown Solids	Packet; Z Ch. 12 13
Wed. 1/24 – Mon. 1/29	Boiling point determination. Microscale	Packet; Z Ch. 5 & 25
Wed. 1/31 – Mon. 2/5	1) Simple and Fractional Distillation 2) Set up for ethanol synthesis	Packet; Z Ch. 17 - 20 Class 1 & 3
Wed. 2/7 – Mon. 2/12	Distillation of Ethanol	Packet; Z Ch. 20 (azeotropes)
Wed. 2/14 – Mon. 2/19	Extraction of chlorophyll and carotenoids from fresh spinach: thin layer chromatography (tlc); Save the crude products for next week!!! Microscale	Packet; Z Ch. 15, 16, 26 & 27
Wed. 2/21 – Mon. 2/26	Column chromatography separation of chlorophyll and carotenoids. Tlc monitoring of eluants . Microscale	Packet; Z Ch. 28
Wed. 2/28 – Mon. 3/5	E-1 dehydration of a secondary alcohol and GC Analysis of products. Microscale	Packet; Z Ch. 31
WED. 3/7– MON. 3/19	Acid catalyzed hydration of norbornene: Stereoselectivity of alkene addition. Microscale	Packet; Z Ch. 15, 16 & 24
SPRING BREAK	3/11 – 3/17	
Wed. 3/21 – Mon. 3/26	The stereochemistry of Br ₂ addition to an alkene. Microscale	Packet; Z Ch. 22 & 23
Wed. 3/28 – Mon. 4/2	Williamson ether synthesis	Packet
Wed. 4/4 – Mon. 4/9	Purification and NMR analysis of Williamson Ether synthesis product.	Packet; Z Ch.34
Wed. 4/11 – Mon. 4/16	Aspirin synthesis, purification and IR analysis. Microscale <u>Check-out</u>	Packet; Z Ch. 33