

Chem. 343
Tentative Laboratory Schedule
SUMMER 2007

<u>Beginning</u>	<u>Exercise</u>	<u>Pre-lab Reading</u>
Thurs. June 7	Check-in, Safety, Orientation, Protocol and Introduction to Equipment to be Used	Zubrick 6 th edition (hence forward referred to as "Z"), Chapters 1-11
Mon. June 11	Identification of Unknown Solids Final report due Fri. June 15	Packet; Z Ch. 12, 13 & 14
Tues. June 12	Boiling point determination. Microscale Final report due Fri. June 15	Packet; Z Ch. 26
Thurs. June 14	1) Simple and Fractional Distillation Final report due Fri. June 15 2) Set up for ethanol synthesis	Packet; Z Ch. 17 – 20 Class 1 & 3
Mon. June 18	Extraction of chlorophyll and carotenoids from fresh spinach: thin layer chromatography (tlc); <u>Save the crude products for next session!!!</u> Microscale Final report due Fri. June 22	Packet; Z Ch. 15, 16, 27 & 28
Tues. June 19	Column chromatography separation of chlorophyll and carotenoids. Tlc monitoring of eluants . Microscale Final report due Fri. June 22	Packet; Z Ch. 29
Thurs. June 21	Distillation of Ethanol Final report due Fri. June 22	Packet; Z Ch. 36 (azeotropes)
Mon. June 25	E-1 dehydration of a secondary alcohol and GC Analysis of products. Microscale Final report due Fri. June 29	Packet
Tues. June 26	Acid catalyzed hydration of norbornene: Stereoselectivity of alkene addition. Microscale Final report due Fri. June 29	Packet; Z Ch. 25
Thur. June 28	The stereochemistry of Br ₂ addition to an alkene. Microscale Final report due Fri. June 29	Packet
Mon. July 2	Williamson ether synthesis	Packet
Tues. July 3	Purification and NMR analysis of Williamson Ether synthesis product. **FINAL REPORT DUE THUR. JULY 5**	Packet; Z Ch.35
Thur. July 5	Aspirin synthesis, purification and IR analysis. Microscale <u>Check-out</u> **FINAL REPORT DUE MON. JULY 9**	Packet; Z Ch. 34

