MTR 1:30pm-5:30pm Salem 207 then 102 CHM 122 Laboratory Schedule, Summer I 20112

Dates	Experiment Title	Handouts and Pages to Read in Text/*Online
05/31/ R	Watch Safety Video Check-in Set up Moonshine (work in pairs)	*Glassware, Zubrick Chs. 1, 2, 4, and 6
06/4/ M	Computational Chemistry: Conformational Analysis of Ethane and Butane	Bring ThinkPad & install Spartan ES prior to lab.
06/5/ T	Finish Moonshine work in pairs	*Distillation, Zubrick pp. 157-170, 179-183, and 309-319
06/07/ R	Paprika Separation	*Column Chromatography, *Thin-Layer Chromatography Zubrick Chs. 27-29
06/11/ M	Infrared Spectroscopy and Nuclear Magnetic Resonance Spectroscopy	Infrared Spectroscopy McMurry ##
06/12/ T	Separation and Identification of Components of a Painkiller	*Rotary Evaporation, *Extraction, and *Filtration Zubrick Chs. 15, 22, and 37
06/14/ R	<i>Continue Painkiller (cont'd) and Set up Synthesis of Benzopinacol</i>	*Crystallization, Zubrick Ch. 13
06/18/ M	<u>Midterm Exam (</u> through paprika lab) and Finish Painkiller (melting points)	*Melting Point, Zubrick pp. 86-92
06/19/ T	Nuclear Magnetic Resonance and Isolate Benzopinacol and Receive Unknown and start running IR's	NMR Spectroscopy McMurry ## Bring Think Pad and have Mestrec installed Helpful Hints for Solving an Unknown Handout
06/21/ R	Melting point of benzopinacol and Pinacolone rearrangement and finish collecting IR's of unknown if needed	Refresh yourself on suction filteration if needed
06/25/ M	Computational Analysis of Carbocation Intermediates in the Pinacolone Rearrangement and Isolate Pinacolone	Bring ThinkPad
06/26/ T	Mass Spectroscopy and mp on pinacolone Setup DA rxn	MS handout, McMurry ## McMurry pp. ##
06/28/ R	Finish Diels-Alder and Check out	*Melting Point, Zubrick pp. 86-92
07/2 M	No Lab	
07/3/ W	Final Exam	Salem rm. 207 @ 1:30

Textbook: Zubrick, <u>The Organic Chem Lab Survival Manual</u>, <u>A Student's Guide to Techniques</u>, 7th ed. * website