

# Laboratory Experiments

Chem 322-Spring 2010  
(320 Drake)

## **Dates:**

Feb. 15-19 *Nitration of Methyl Benzoate* – Reaction 716

Questions: Pre-lab 1-3; Post-lab 1-3

Feb. 22-March 26 *Isolating Clove Oil*– Tech 722 + Handout

Questions: Pre-lab 1-3; Post-lab 1,3

March 1-5 *Aldehydes and Ketones* – Analytical 728

Questions: Pre-lab 2,3; Post-lab 1,2

March 8-12 *Aldol Condensation* – Synthesis 720

Questions: Pre-lab 1-4; Post-lab 1-3

March 15-19 *Aspirin Synthesis* – Synthesis 745

Questions: Pre-lab 1-3; Post-lab 1-3

March 22-April 2 No Lab

April 5-9 *Isopentylacetate – Fischer Esterification* – Synthesis 713

Questions: Pre-lab 1-4; Post-lab 1

April 12-16 *Grignard Reaction* – Handout, Questions in Handout

April 19-23 Reduction of Vanillin to Vanillyl Alcohol, Handout,  
Questions in Handout

April 26-30 Wittig, Handout.

May 3-7 *Qualitative Analysis/Unknowns\** - Analytical 727

May 10-14 Finish: Qualitative Analysis\*/Unknowns\*

Questions: Pre-lab 1-5; Post-lab none

\* You must finish the Qualitative Analysis/Unknowns lab to pass the laboratory portion of the class.

~ No lab grades are dropped; your score will be calculated based on ten labs.

~ Attending alternate lab sections due to illness (with a written physician's excuse) is permitted. Any other reasons must be approved by the Office of the Dean of Arts and Sciences.

**Remember to:**  
**Bring your goggles**  
**Wear appropriate clothing**  
**Bring bound lab notebook.**