**CHEM 304 Schedule of Experiments**

**Spring 2017**

­­­­­­­­­­

# Week Of Experiment Assignment Due (Instruments)

Jan. 9 **NO LABS** **-------**

Jan. 16 Introduction and Molecular Modeling\* **-------**

Jan. 23 Recrystallization and Melting Point (T) *Molecular Modeling\**

Jan. 30 Extraction of Caffeine (T) Recrystallization (GC/MS)

Feb. 6 Distillation and Gas Chromatography (T) Extraction (GC, GOWMAC)

Feb. 13 Friedel-Crafts Acylation (R) Distillation (FT-IR, NMR-1H)

Feb. 20 Grignard Reaction (R) Acylation

Feb. 27 Grignard Reaction **-------** (FT-IR)

Mar. 6 Fischer Esterification (R) Grignard (NMR, 13C)

Mar. 13 **SPRING BREAK** **-------**

Mar. 20 TLC (T) Fischer

Mar. 27 Aldol Condensation (R) TLC (NMR, 1H)

Apr. 3 Hydrogenation of Snack Food (R) Aldol (NMR, 1H)

Apr. 10 Column Chromatography (T) Hydrogenation

Apr. 17 **NO LABS** Column Chromatography

\* The modeling assignment is not a lab report and does not follow the report guidelines.

(T) – Denotes Technique Experiment

(R) – Denotes Reaction Experiment