

# Bemidji State University

## CHEM 3371: Organic Chemistry Laboratory I

### A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Laboratory study of the reactions of organic compounds. Prerequisites: CHEM 1112 or CHEM 2212; Corequisite CHEM 3311.

**B. COURSE EFFECTIVE DATES:** 08/02/2010 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Acetaminophen
2. Isolation of Acetaminophen
3. Basic Lab Concepts
4. Competitive Nucleophiles
5. Distillation Pure/Fractionating
6. Essential Oils from Cloves
7. Polymerization
8. Reactivities of Alkyl Halides
9. TLC Analysis of Drugs

### D. LEARNING OUTCOMES (General)

1. apply traditional and modern laboratory techniques, strategies, and safety considerations in the synthesis, purification, identification and quantification of organic compounds, and understand the basic physical phenomena and fundamental chemistry concepts used in these procedures.
2. learn laboratory skills and techniques used to solve organic chemistry problems.
3. successfully communicate the resulting experimental data, observations and analyses in the appropriate scientific format.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted