

SAULT COLLEGE
of Applied Arts and Technology
Sault Ste. Marie

COURSE OUTLINE

ORGANIC CHEMISTRY LAB I

CHM 118 Semester 1

Med. Lab Technology and Chemical
Engineering Technician.

revised May 1980



CHM 118

ORGANIC LAB I

EXPERIMENTS:

INTRODUCTION:

CHM 118 is the introductory organic lab taught to first semester students in the Chemical Engineering and Medical Laboratory programs. Emphasis is on laboratory technique as reflected by experiments that initially involve extraction, crystallization and distillation, followed by chromatography.

The student will also be introduced to synthetic organic chemistry in order to use the techniques learned in the first part of the course.

MAKE-UP:

A student may complete the experiment he/she is presently working on during the make-up period but may not start experiments that have not been attempted during the term.

ATTENDANCE:

Your attendance at all labs is essential and you must be present at the beginning of the lab when a lab lecture is given. Should you be absent from the lab, please advise your instructor as to the cause. Your grade will be affected by your attendance.

CHM 118 - Organic Lab I

EXPERIMENTS:

- #1 - The isolation of cholesterol from gallstones.
- #2 - Crystallization and Sublimation.
- #3 - Solvent selection for recrystallization.
- #4 - Distillation and introduction to refractometer
- #5 - Distillation of mixture.
- #6 - Fractional distillation.
- #7 - Introduction to Synthetic Organic:
 - a) Bromination of cholesterol - addition reaction
 - b) De-bromination of trans - 1,2 - dibromocholesterol
 - c) oxidation of trans-1,2 - dibromocholesterol to corresponding Ketone.
- #8 - Introduction to Chromotography:
 - a) separation of cholesterol acetate by column chromatography
 - b) separation and identification of nitroanilines by TLC

MAKE-UP:

A student may complete the experiment he/she is presently working on during the make-up period but may not start experiments that have not been attempted during the term.

ATTENDANCE:

Your attendance at all labs is essential and you must be present at the beginning of the lab when a lab lecture is often given. Should you be absent from the lab, please advise your instructor as to the cause. Your grade will be affected by your attendance.