

SAULT COLLEGE
of Applied Arts and Technology
Sault Ste. Marie

COURSE OUTLINE

ORGANIC CHEMISTRY THEORY II

CHM-127

CHEMICAL ENGINEERING AND MED LAB.

revised

May 1980

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ORGANIC CHEMISTRY

CHM 127

INTRODUCTION:

CHM 127 is a continuation of CHM 117 and is taught to students in the Chemical Engineering and Medical Laboratory Programs. Emphasis is on organic reactions and mechanisms and a continuation of the nomenclature from Semester I.

TEXTBOOK:

Organic Chemistry; Menger, Goldsmith and Mandel;
Benjamin (1975)

Organic Nomenclature; Traynham; Prentice-Hall (1966)

ORGANIC CHEMISTRY

CHM 127

EVALUATION:

Evaluation will be by periodic tests and quizzes as well as a comprehensive exam. Make-up will be granted to those students that have a final mark above 40% upon completion of the course and at the discretion of the instructor. Make-up privileges will be available to those students that have regular and satisfactory attendance.

COURSE LENGTH:

Three hours per week for fifteen weeks.

ORGANIC CHEMISTRY

CHM 127-3

Whereas CHM 117-2 was an introduction to structure and functionality, CHM 127-3 deals with reactivity. The course will cover the following topics:

1. Stability of Organic Compounds - Chapter 4 MGM
2. Nomenclature of Reaction Intermediates - Chapter 14 T.
3. Resonance - Chapter 2 MGM, Chapter 4 MGM.
4. Substitution Reactions.
5. Elimination Reactions.
6. Addition Reactions.
7. Nomenclature of oxygen containing compounds (excluding alcohols).
(Done in CHM 117)
- ethers, acids, acid derivatives, carbonyls
Chapter 6 - 9T. (include Amides)
8. Nomenclature of amines - Chapter 10T
9. Nomenclature of aromatic hydrocarbons - Chapter 11 and 12 T.
10. Nomenclature of bridged ring systems - Chapter 13 T.
11. Aromatic Substitution Reactions.
12. Carbonyl Reactions.