

Skill Outcomes

- The student who successfully completes this course will be able to
- A. relate the name to the structure of a synthetic polymer
 - B. define or illustrate key concepts of polymer chemistry
 - C. outline the steps in the synthesis of a polymer
 - D. calculate different types of molecular weights of polymers and relate to properties
 - E. compare and contrast synthetic and natural polymers as to structure and properties
 - F. use the chemical literature.

Value Outcomes

- The student who successfully completes this course will
- A. gain an appreciation for the ubiquity and importance of polymers
 - B. gain and increased appreciation for the power of how science works

V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus.

a) Course Requirements

Students are expected to attend all classes and complete all assigned homework and reading. Students will write and present a paper on an aspect of polymer chemistry. Grades will be calculated based on the paper, two exams, homework, and a final exam.

b) Required Textbook and Materials

Seymour and Carraher, *Polymer Chemistry, an Introduction, 4th ed.*, Marcel Dekker, Inc., 1996.

Department Head Signature / Date

_____ / ____ / ____
Signature month date year