

CHEM 4378-07/ CHEM 6330-01

CHEM 4378-07/ CHEM 6330-01 **Special Topics in Organic Chemistry**

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Spring 2017

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Mathematics and General Classrooms 1.320; T, R 10:50 a.m. – 12:05 p.m.

Office hours (SCIE 3.340): M, W 10:00 a.m. – 12:00 p.m.

Textbook and/or Resource Material

Introduction to Polymer Chemistry

Charles E. Carraher

First Edition

ISBN-10: 0849370477

Course Description and Prerequisites

- A general introduction to the theory of polymeric materials.
- Synthesis, characterization, and structure-property relationships of polymers.
- Emphasis is given to conjugated polymers as functional materials.

Student Learning Outcomes for the Course

- Provide a solid back-ground in polymer chemistry, polymer physics and analysis, and structure-property relationships
- Introduce the important chemical synthetic reactions used both in the laboratory *and* in industry to prepare polymers
- Give an overview of the analytical tools used to verify chemical composition and physical characteristics
- Describe the properties that make polymers unique and how these properties are analyzed
- Provide an understanding of the relationship of the special properties of the polymers to its chemical composition and physical morphology
- Familiarize the students with the techniques used to modify the chemical composition and morphology of polymers in order to obtain specific physical properties
- Provide the framework to view polymers as *materials*.

Learning Objectives for Core Curriculum Requirements

This course is not part of the UTRGV core curriculum requirements.

Calendar of Activities

The UTRGV academic calendar and final exam schedule can be found at <https://my.utrgv.edu/home> at the bottom of the screen, prior to login. Some important dates for Spring 2017 include:

Jan 16	MLK Holiday and Day of Service
Jan 17	First day of class for full semester
Jan 30	Last day to add a class for spring 2017 semester
Mar 13 – 18	Spring Break, no classes
Apr 13	Last day to drop (DR grade) a class or withdraw (grade of W)
Apr 14 – 15	Easter holiday, no classes
May 3	Last day of classes for full semester
May 4	Study Day, no classes
May 5 - 11	Final Exams

Course	Introduction
Content	Polymer Synthesis I
	Polymer Synthesis II
	Polymer Characterization: Instrumental Techniques
	Structure-Property Relationships in Polymers

Grading Policies

Average of 90 – 100 points = A; 80 – 89 points = B; 70 – 79 points = C; 60 – 69 points = D; < 60 points = F

- No make-up exams (**No Exception**)
- Two exams
- Research Project
- Presentation
- Students attending official University events may take an exam prior to the scheduled date if they provide an official letter from the University

Other Course Information

- The use of cell phones is not allowed during class
- The use of laptops/tablets is not allowed during class unless previously approved by a University office
- No recording is allowed during lectures
- Students may view their exams during office hours or by making an appointment
- ***Any changes will be announced in class at least one week in advance***

UTRGV Policy Statements

STUDENTS WITH DISABILITIES:

If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time. **Brownsville Campus:** Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at ability@utrgv.edu. **Edinburg Campus:** Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at ability@utrgv.edu.

MANDATORY COURSE EVALUATION PERIOD:

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<https://my.utrgv.edu/home>); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available:

Feb 15 – Feb 21 for Module 1 courses

Apr 12 – Apr 18 for Module 2 courses

Apr 12 – May 3 for full spring semester courses

ATTENDANCE:

- Attendance is not mandatory
- Absence from class is not considered an automatic drop

SCHOLASTIC INTEGRITY:

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

SEXUAL HARASSMENT, DISCRIMINATION, and VIOLENCE:

In accordance with UT System regulations, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

COURSE DROPS:

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.