

Physical Chemistry of Polymers

CHEMISTRY 5511 (Section 06B0)
Classroom Building 105 (CBD) 224

Professor John R. Reynolds

Fall 2011 Monday, Wednesday and Friday 10:40 a.m. to 11:30 a.m. (Period 4)
(2 credits) (Monday/Wednesday Main Lectures, Friday Back-Up Lecture and Office Hour)

Lectures: Lectures will span fundamental concepts of the physical chemistry of macromolecules, experimental methods for measuring physical constants and properties of polymers, and examples from the literature. Supplemental materials added to the lectures will be covered upon examination.

Text: “Essentials of Polymer Science and Engineering”, by Painter and Coleman (DEStech Publications, Inc., 2009). Use of this text with specific sections to be focused on will be announced.

Readings: Assignments made for various readings of material from text and all outside sources will be "fair game" on exams.

Homework: Specific problem sets will be assigned during the course. These will not be collected or graded. Homework problems will be an important part of the exams and the assigned problems will provide necessary exposure.

Grading: Grading will be based on a total point system with points accumulated from one mid-term, one final exam and one term paper.

Exams: Exams will be worth 100 points each. Dates for the exams are:

Mid Term Exam	Monday, October 10
Final Exam	TBD

(The final will be comprehensive, but will still be worth 100 points.)

Term Paper: A term paper (*ca.* 10-20 pages) will be required for this course and will be worth 100 points. Topic assignments will be made in late September and the paper will be due by Wednesday, November 16. A penalty of 10 points per class period will be assessed for late papers. It is expected that students will utilize current journals, such as *The Journal of the American Chemical Society*, *Macromolecules* and *Journal of Polymer Science*, in researching their topics.

Office Hours: Sisler Hall 301, Fridays, 10:30 – 11:30 am by appointment. Make contact in class or e-mail at Reynolds@chem.ufl.edu (subject line to show CHM 5511).

Academic Honesty The University policy on classroom behavior and honesty is detailed at: <http://www.dso.ufl.edu/studentguide/studentrights.php>