

Lecturer/Coordinator: Dr. Susan Rutkowski

Email: sar@drexel.edu

Office: Disque 412

Office Hours: W F 10:00 – 11:00 AM or by appointment

Lecture: Wed and Fri 9:00 – 9:50 AM in Stratton 113 (Dr. Susan Rutkowski)

Wed and Fri 12:00 – 12:50 in Stratton 113 (Dr. Tony Wambsgans)

Labs: All lab sections in Disque Hall.

Recitation/Lab Instructors: See instructor contact information posted to course website

Course Description: This course covers physical and chemical properties of substances used in consumer products. It is an introduction to the fundamental structures, nomenclature and properties of hydrocarbons, organic functional groups, polymers, and biomolecules. These concepts are applied to the areas of food and nutrition, pharmacology, environmental science, and consumer chemistry. Course includes weekly lab experiments.

Course Objectives

- ability to draw structures of organic compounds
- writing basic reactions of important functional groups
- ability to understand topics including
 - stereochemistry
 - synthetic and natural polymers
 - biomolecules, including carbohydrates, lipids, proteins, and nucleic acids
- ability to apply learned concepts to areas of consumer chemistry

Required Textbook, Laboratory Manual, and Materials:

1. General Chemistry 103 Course pack: Chapters 12-24 of "Introduction to General, Organic, and Biochemistry" by Sally Solomon. The course pack also contains new material on current topics such as green cleaners, steroids, sweeteners, gamma fatty acids, etc as well as extra lab experiments.

2. Lab Manual: "Everyday Investigations for General Chemistry" by Sally Solomon, Susan Rutkowski, Charles Boritz; Wiley; 2009, New York

3. Safety glasses or goggles and Lab Coat: These are available at the University Bookstore and must be worn in the laboratory at all times. Make sure you have safety glasses and a lab coat before you go to your first lab (Week 2 of classes).

You will not be allowed to attend lab without them.

Course Website: Bb Learn, CHEM 103

You will always find here the most current syllabus course schedule and announcements about changes in the course, labs and exams. Check it regularly. You can get there through DrexelOne ("My Courses") or directly (<http://learn.dcollege.net/>).

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