

Chem 252
Organic Chemistry II
Summer, 2009

Chem 252 covers certain areas of organic chemistry in more detail than the prerequisite course, with special emphasis on the mechanisms and synthesis applications of organic reactions and on the organic chemistry of biological compounds.

Prerequisite: Chem 251

Credit:3 units

INSTRUCTOR

Dr. Donna G. Friedman

Office: Lab Sciences 101

Office hours: Monday-Friday 10:45- 11:30 and by appointment

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TEACHING ASSISTANT

Valentina Bumbu

Hours to be determined

TEXTBOOKS

L.G. Wade Jr., Organic Chemistry, Seventh Edition, Prentice Hall, 2010. (required)

J. W. Simek, Solutions Manual to accompany Organic Chemistry, Seventh Edition, Prentice Hall, 2010. (recommended)

Organic Chemistry Molecular Models (recommended)

All of the above are available at the Washington University bookstore.

READING AND PROBLEM ASSIGNMENTS

Students should read the assigned chapters in the textbook before coming to lecture. Soon after lecture, students should re-read the chapters, work the in-chapter problems, and work as many of the problems at the end of the chapters as possible.

A suggested list of problems will be assigned for each chapter. These problems will not be collected for grading as the answers to the problems are in the Solutions Manual.

COURSE OUTLINE AND TENTATIVE EXAM SCHEDULE

Course material is divided into four major study units as outlined below. Students are responsible for reading and studying all assigned sections of the textbook unless otherwise instructed. The quantity of material to be learned in Chemistry 252 is too large to permit all of it to be covered in lecture. Lectures will focus on key ideas and material that requires the most emphasis and explanations.

Chapter 16 "Aromatic Compounds"
Chapter 17 "Reactions of Aromatic Compounds"
Chapter 12 "Infrared Spectroscopy"
FIRST UNIT EXAM – July 21

Chapter 12 "Mass Spectrometry"
Chapter 13 "Nuclear Magnetic Resonance Spectroscopy"
Chapter 18 "Ketones and Aldehydes"
SECOND UNIT EXAM – July 28

Chapter 19 "Amines"
Chapter 20 "Carboxylic Acids"
Chapter 21 "Carboxylic Acid Derivatives"
THIRD UNIT EXAM – August 4

Chapter 22 "Condensations and Alpha Substitutions of Carbonyl Compounds"
Chapter 23 "Carbohydrates and Nucleic Acids"
FOURTH UNIT EXAM – August 11

Chapter 24 "Amino Acids, Peptides, and Proteins"

COMPREHENSIVE FINAL EXAM – August 13

EXAMS AND GRADING SYSTEM

All exams will be held during normal class hours. The four unit exams and the comprehensive final exam will be weighted equally - each exam will constitute 20% of the final grade. The final exam is mandatory. There will be no make-up exams. However, if a situation should arise that prevents a student from preparing for or taking a unit exam, the student should contact the instructor as soon as possible, preferably before the exam. If the instructor deems it appropriate, the final exam score will substitute for that of the missed unit exam.

Letter grades will be determined using the following scale with +/- cutoffs to be determined.

A	88% or greater
B	78% - 87%
C	68% - 77%
D	58% - 67%
F	57% or below

Last day to drop without a "W" - July 17

Last day to change grade option or withdraw – July 31