

CHEM 2323 - Organic Chemistry I
Course Syllabus
Spring 2009

Section numbers: 002 & 102

Synonyms: 35987 & 37304

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Office Hours: MW 2-3pm CYP, TTh 12-1pm PIN and 6-7pm RGC

COURSE DESCRIPTION

An introduction to the chemistry of carbon compounds. Both aliphatic and aromatic compounds will be studied; focusing on molecular orbital theory, stereochemistry, reactions, and mechanisms. **Prerequisites: CHEM 1412 or equivalent.**

RECOMMENDED TEXTS/MATERIALS

Lecture: "Organic Chemistry", 7th ed., McMurry

Lab: "Operational Organic Chemistry: A Problem-Solving Approach to the Laboratory Course" 3rd ed., Lehman

Students must have access to ACC's Blackboard, this requires an ACC EID and login password. Lecture notes, lab notes, announcements, syllabus, and other course materials will be available to students on Blackboard.

CALCULATOR

You will need a scientific calculator for lab activities only.

MOLECULAR MODELS

The use of molecular models is suggested and extremely helpful, but not required. Also, we will be using a freeware chemical drawing program called ChemSketch from www.ACDLabs.com in class and you may want to download to your personal PC to aide in homework.

INSTRUCTIONAL METHODOLOGY

This course consists of a lecture section.

COURSE RATIONALE

This course covers the fundamental facts, laws, principles, theories and concepts of chemistry necessary for further work in science or science-related subjects.

COMMON COURSE OBJECTIVES

These can be found at: <http://www.austincc.edu/chem/curriculum/index.htm>

COURSE EVALUATION/GRADING

Lecture

The lecture portion constitutes 100% of the course grade.

Homework: Recommended homework will be assigned to each chapter, but not graded. However, a single notebook containing all homework problems completed maybe turned in on the last day of class for consideration in curving final grades. Exam questions will come from the homework as well as lecture notes, so it is suggested you work all the assigned problems. We will be working some of these problems in class during the lectures and concentrating on homework problems during the exam reviews. A student solutions manual is available with your text book and I will make the answer keys to each homework set available *just before* the exam on reserve in the library.

Exams: There will be four regular exams. All exams will be given in the testing center during the *tentative* dates shown below. Grades may be curved at the discretion of the instructor. **There are no make-up or late exams unless discussed with me before the exam dates, without a note from a doctor. There will be a 10-point penalty on exams given, for whatever reason, after the set exam dates.** A comprehensive cumulative final will be given on the last day of class, in class, and is mandatory. A series of bonus questions will be handed out in class before each exam and will be due on the day of the exams, these bonus questions will be worth 25 points each and will total the amount of an additional exam. You may substitute this overall grade for the lowest score on one of the regular exams.

Final Lecture Grade: Each regular exam is worth 100 points, the final is worth 200 points. There are a total of 700 possible points, but only 600 will be considered after one test grade is dropped. This total point score will comprise 100% of the course grade.

LECTURE OUTLINE/CALENDAR

**Test dates are tentative and will be confirmed in class*

Chapter 1: General Chemistry Review (1.1-1.12)

Chapter 2: General Chemistry Review cont. (2.1-2.11, 2.13)

Chapter 3: Intro to Alkanes (3.1-3.7)

Chapter 4: Alkanes cont. (4.1-4.9)

***Exam 1** Week of (6/17)

Chapter 9: Stereochemistry (9.1-9.9)

Chapter 5: Reactions of Alkanes (5.1-5.4, 5.6-5.10)

Chapter 10: Alkyl Halides (10.1-10.3, 10.6)

Chapter 11: Alkyl Halides (11.1-11.5, 11.7-11.10)

***Exam 2** Week of (7/1)

Chapter 6: Alkenes (6.1-6.11)

Chapter 7: Alkenes cont. (7.1-7.10)

Chapter 9: Alkenes cont. (9.10, 9.11)

Chapter 8: Alkynes (8.1-8.9)

***Exam 3** Week of (7/22)

Chapter 10: Dienes (10.4-10.5)

Chapter 14: Dienes cont. (14.1-14.5)

Chapter 15: Aromaticity (15.1-15.7)

Chapter 16: Aromatics cont. (16.1-16.10)

***Exam 4** Week of (8/10)

Comprehensive Final (August 13th, in class)

FINAL EVALUATION:

Grading Scale for the course: A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%

GENERAL COURSE POLICIES

Attendance Policy: You are not required to attend lecture. In the lab, students must complete 60% (6 experiments) of the lab activities to pass the course.

Classroom Behavior: Please turn off cell phone ringers during lectures and lab discussions.

Missed Exams: If you miss an exam, you need to contact me as soon as possible. I always grade exams within two days of the deadline, and return them promptly. Once exams are returned, there will be no chance for a make-up.

Incomplete Grade Policy: Incompletes can be given if you complete 75% of the course work with at least a 70% average.

Withdrawal Policy: If you wish to drop the class, please do so yourself, the instructor will not be responsible, unless you make a specific request prior to the drop deadline.

TESTING CENTER POLICY

ACC Testing Center policies can be found at: <http://www.austincc.edu/testctr/>.

Exams will only be available in the RGC testing center.

Please See Attached Testing Center Policy Handout

STUDENT SERVICES

The web address for student services is: <http://www.austincc.edu/rss/index.htm>.

The ACC student handbook can be found at: <http://www.austincc.edu/handbook/>.

INSTRUCTIONAL SERVICES

The web address is: <http://www.austincc.edu/evp/newsemester/index.htm>, then click on "Campus Based Student Support Overview".

Statement on Scholastic Dishonesty

"Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to, cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, research or self-expression. Academic work is defined as, but not limited to, tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations; and homework."

Academic dishonesty will not be tolerated. Repercussions for students caught engaging in academic dishonesty will be determined by the instructor and may include an automatic "F" in the course, with no chance of withdrawal.

Statement on Students with Disabilities

"Each ACC campus offers support services for students with documented physical or psychological disabilities. Students with disabilities must request reasonable accommodations through the Office of Students with Disabilities on the campus where they expect to take the majority of their classes. Students are encouraged to do this three weeks before the start of the semester."

Students who are requesting accommodation must provide the instructor with a letter of accommodation from the Office of Students with Disabilities (OSD) at the beginning of the semester. Accommodations can only be made after the instructor receives the letter of accommodation from OSD.

Statement on Academic Freedom

"Institutions of higher education are conducted for the common good. The common good depends upon a search for truth and upon free expression. In this course the professor and students shall strive to protect free inquiry and the open exchange of facts, ideas, and opinions. Students are free to take exception to views offered in this course and to reserve judgment about debatable issues. Grades will not be affected by personal views. With this freedom comes the responsibility of civility and a respect for a diversity of ideas and opinions. This means that students must take turns speaking, listen to others speak without interruption, and refrain from name-calling or other personal attacks."

Student Discipline Policy

"Students at the College have the rights accorded to all persons under the Constitution to freedom of speech, peaceful assembly, petition, and association. These rights carry with them the responsibility for each individual to accord the same rights to others in the College community and not to interfere with or disrupt the educational process. As willing partners in learning, it is expected that students will comply with College rules and procedures. ACC students are recognized as responsible persons who neither lose the rights nor escape the responsibilities of citizenship. Enrollment in the College indicates acceptance of the rules set forth in this policy, administered through the office of the Campus Dean of Student Services. Due process, through an investigation and appeal process, is assured to any student involved in disciplinary action."