I. Course Overview

Basic information

Department: Chemistry
Course Prefixes: CHM201, Section 10115
Course Title: Introduction to Organic and Biological Chemistry
Credit Hours: 4

Instructor’s information

Name: Ghassan M. Saed, Ph.D.
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Catalog course description

Brief survey of organic and biological chemistry, emphasizing applications to human physiology. CHM 201 may not be used for major or minor credit in chemistry, biology or physics, except for the STEP minor in chemistry.

Required text

Textbook: General Organic and Biological Chemistry 5/e edition, w/media, McMurry, Castellion and Ballantine, Pearson/Prentice Hall, 2007


Other: Scientific calculator and Scantron forms 882

You also need to purchase an access code which will allow you to browse the course pack materials and quizzes. The book and the access code are available at OU bookstore.
II. Course Goals and Objectives

In CHM 201 you will learn the following:

1. The nature of organic molecules.
2. Naming of organic molecules.
4. Introduction to Carbohydrates, Proteins, and Lipids.
5. Metabolism of food (carbohydrates, proteins and lipids).

III. Course Policies and Procedures

Web site
There is a web site for this course at Moodle. You will be required to use the site to check for the latest news, announcements, class assignments, course syllabus, and grades. To login into Moodle, you will use your OU email I.D. and password.

Course materials
The course will be divided into two sections.

Section I, which include the following chapters:
Chapter 12 (Alkanes)
Chapter 13 (Alkenes, Alkynes, and Aromatic Compounds)
Chapter 14 (Alcohols, Phenols, Ethers, and Thiols)
Chapter 15 (Amines)
Chapter 16 (Aldehyde and Ketones)
Chapter 17 (Carboxylic Acids and Their Derivatives)

Section II, which include the following chapters:
Chapter 18 (Amino Acids and Proteins)
Chapter 22 (Carbohydrates)
Chapter 24 (Lipids)
Chapter 23 (Carbohydrate Metabolism)
Chapter 25 (Lipid Metabolism)
Chapter 28 (Protein Metabolism)

Laboratory Experiences

There are no laboratory experiences required for this course.

Homework assignments
Homework assignments are **ALL** the even problems at the end of each assigned chapter, including Understanding Key Concepts and Additional Problems. **You are strongly recommended to do all the homework problems!** This is necessary to become proficient in the material. Homework will be graded as 2 points per chapter.

**Grading and Examinations**

There will be a mid-term and a final multiple-choice exams (No comprehensive final exam will be given), laboratory experiences and homework assignments.

The graded work will be:

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<thead>
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<tbody>
<tr>
<td>Mid-term exam</td>
<td>100 points</td>
</tr>
<tr>
<td>Section I homework assignments</td>
<td>36 points (6 points/chapter)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100 points</td>
</tr>
<tr>
<td>Section II homework assignments</td>
<td>36 points (6 points/chapter)</td>
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Examinations are based on material covered in the textbook. Exams will consist of multiple-choice questions.

No Make-up exams are given. Should you miss an exam for non-legitimate reasons, you will receive a grade of zero on the missed examination. If you missed an exam for a legitimate reason, we can negotiate.

Section I homework is due on the day of the mid-term exam. Section II homework is due on the day of the final exam.

The maximum number of points that any student can accumulate is 272 points. Final numeric grades will be based on the highest score in the class, which will be assigned a 4.0 grade. Grades will be calculated using the following formula: student’s total points divided by the highest number of points earned out of the whole class multiplied by 4. Obviously, the highest number of points cannot be determined until the end of the semester. To monitor your progress in the class, please use the highest number of points possible for each exam. Personal grades are not available by e-mail but are available on Moodle.

**Office hours**

Office hours are tentatively scheduled every Saturday from 10:00 to 11:00 AM throughout the course. You are requested to log-in to the chat forum during those hours for questions. Office hours time and duration might change dependent on our need.

**IV Timetable**

Mid-term Exam: is scheduled for Saturday (to be announced) from 10:00 am to 1:00 pm in room
Final Exam: is scheduled for Saturday (to be announced) from 10:00 am to 1:00 pm in room