I. Course Overview

Basic Information
Department: Chemistry
Course Prefixes: CHM201, Section 10390
Course Title: Introduction to Organic and Biological Chemistry
Credit Hours: 4
Class meets Tu & Th from 8:00–9:47 am in Room 190 in Hannah Hall of Science (HHS)

Instructor Information
Name: Ghassan M. Saed, Ph.D.
Office: Room 385, HHS
Mailbox: 264 SEB under name of Saed
E-mail Address: saed@oakland.edu
Office Fax number: (248) 370-3221
Mailing Address: Chemistry Department
Oakland University, Rochester, MI 48309-4477
Office Hours: Before or after class or by appointment. Feel free to e-mail me at anytime.

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
Required: General Organic and Biological Chemistry (5/e), w/Moodle Pack, McMurry, Castellion and Ballantine, Pearson/Prentice Hall, 2007

II. Course Goals and Objectives
1. Name organic compounds according to IUPAC.
2. Recognize various organic molecules and their biological functions.
3. List the sequence of events in the digestion of carbohydrates, proteins, and lipids
4. Identify the major reactions and products of food catabolism and the fate of the products

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 Pack is now available. Please browse though it before coming to class. You are requested to check the announcement section on this site for homework assignments and other information related to this course.

**Grading**
There will be four multiple-choice exams (No comprehensive final exam will be given) and homework assignments. The due dates for these activities are shown in Timetable.

*The graded work will be:*

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 multiple-choice exams</td>
<td>100 points each</td>
</tr>
<tr>
<td>12 homework assignments</td>
<td>2 points each</td>
</tr>
</tbody>
</table>

The maximum number of points that any student can accumulate is 424 points. Final numeric grades will be based on parameter H. A score of H or higher will be assigned a 4.0 grade. About half of the score will be assigned a 1.0 grade, with a linear grade scale in between. Students with total points less than about H/2 will receive a 0.0 grade. Personal grades are not available by e-mail but are available on the WebCT site.

**Examinations**
Examinations are based on material covered in class and in the text book. All exams will consist of multiple-choice questions. Each of the four exams should take you no more than 80 minutes to complete.

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.

**Tentative plan for the exams:**
- **Exam I** includes chapters 12, 13, and 14.
- **Exam II** includes chapters 15, 16, and 17
- **Exam III** includes chapters 18, 22, and 24
- **Exam IV** includes chapters 23, 25, and 27

The only electronic device allowed is a calculator. You may not have any cellular phone, radio/MP3 player, or other electronic device on your person. Please turn off cellular phone during exams.

Once an exam begins, you will not be allowed to leave the room and return to complete your exam.

**Homework**

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.

**Laboratory Experiences**
There will be No laboratory experiences with this course.

**Class Attendance**
It is your choice not to come to class, but you are responsible for everything discussed in class, like changing exams dates and/or adding or omitting materials.

**Academic Conduct**

**Classroom Courtesy:** The instructor of this course has a strong commitment to the development and maintenance of an instructional climate that supports respect for everyone in the classroom. Your enrollment in this course requires that you will treat your fellow classmates and course instructor with respect. The instructor reserves the right to adjust course grades for disrespectful behavior.

**Cheating:** The University’s regulations that relate to academic misconduct will be fully enforced. I insist on seeing your own work group’s work. Any student suspected of cheating by copying on exams, changing answers on exams after they are scored, obtaining exam questions prior to the exam time, use of any previous student’s course work, plagiarism, giving or obtaining undeserved points on group work, or by other means will be referred to the Academic Conduct Committee. Students found guilty of academic misconduct face suspension or permanent dismissal. Anyone found by the Academic Conduct Committee to be guilty of misconduct will also receive a 0.0 grade for the course from the instructor in addition to whatever sanction(s) the Committee decides.

**Timetable**

<table>
<thead>
<tr>
<th>Date</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 8, 10</td>
<td>Chapter 12 (Alkanes)</td>
</tr>
<tr>
<td>January 15, 17</td>
<td>Chapter 13 (Alkenes, Alkynes, and Aromatic Compounds)</td>
</tr>
<tr>
<td>January 22, 24, 29</td>
<td>Chapter 14 (Alcohols, Phenols, Ethers, and Thiols)</td>
</tr>
<tr>
<td><strong>January 31</strong></td>
<td><strong>Exam I (Chapters 12-14, 100 points)</strong></td>
</tr>
<tr>
<td>February 5, 7</td>
<td>Chapter 15 (Amines)</td>
</tr>
<tr>
<td>February 12, 14</td>
<td>Chapter 16 (Aldehyde and Ketones)</td>
</tr>
<tr>
<td>February 19, 21</td>
<td>Chapter 17 (Carboxylic Acids and Their Derivatives)</td>
</tr>
<tr>
<td><strong>March 4</strong></td>
<td><strong>Exam II (Chapters 15-17, 100 points)</strong></td>
</tr>
<tr>
<td>March 6, 11</td>
<td>Chapter 18 (Amino Acids and Proteins)</td>
</tr>
<tr>
<td>March 13, 18</td>
<td>Chapter 22 (Carbohydrates)</td>
</tr>
<tr>
<td>March 20, 25</td>
<td>Chapter 24 (Lipids)</td>
</tr>
<tr>
<td><strong>March 27</strong></td>
<td><strong>Exam III (Chapters 18, 22, 24, 100 points)</strong></td>
</tr>
<tr>
<td>April 1, 3</td>
<td>Chapter 23 (Carbohydrate Metabolism)</td>
</tr>
<tr>
<td>April 8, 10</td>
<td>Chapter 25 (Lipid Metabolism)</td>
</tr>
<tr>
<td>April 15, 17</td>
<td>Chapter 28 (Protein Metabolism)</td>
</tr>
<tr>
<td><strong>April 24</strong></td>
<td><strong>Final Exam (Chapters 23, 25, 28, 100 points)</strong></td>
</tr>
</tbody>
</table>