SYLLABUS

CHEMISTRY 201
Introduction to Organic and Biochemistry
Section 10078, 190 HH
MW 3:30 – 5:17 HH
Winter 2014

INSTRUCTOR:
Dr. Thomas Ott
Office: 345 Hannah Hall
Office Phone/Voicemail: 248-370-2091
e-mail: ott@oakland.edu
Office Hours: Monday 2:15-3:15 PM, Wednesday 2:30-3:15 PM, Friday 12-12:45 PM

CATALOG COURSE DESCRIPTION:
CHM 201 is a 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.

COURSE DESCRIPTION:
Organic Chemistry (Chapters 12-17): The introduction to hydrocarbons includes the basics of structure and nomenclature. Discussion of functional groups with single bonds to oxygen, sulfur, or a halogen is followed by a short chapter on amines and amides. After introducing aldehydes and ketones, the chemistry of carboxylic acids and their derivatives is covered, with a focus on similarities among the derivatives.

Biological Chemistry (Chapters 18-26): This will focus on studying carbohydrate and carbohydrate metabolism, protein structure and protein metabolism, enzymes, nucleic acids, biochemical pathways, and lipids and lipid metabolism.

TEXT: The textbook is General, Organic, and Biological Chemistry: Oakland University Edition by Stephen Stoker, 6th edition (Bundle ISBN: 9781285109992, which includes the full text and 24 month OWL access to homework, LabSkills, and an e-solutions manual). This is the same text and access code that you used for Chem 104 in the fall (if you took the class then).

COMPUTER SITES:
You must be able to access two different websites. Moodle is at http://moodle.oakland.edu. You are automatically registered. Information about the class will be posted there. Note: Do not send messages to me through Moodle. I do not routinely check it. Use ott@oakland.edu instead. The preferred browser for Moodle is Firefox, available for free at http://www.mozilla.com.

Homework assignments will be assigned using the online homework system OWL. You will need an OWL access code. The access code is included in the textbook bundle available at the OU bookstore or you can purchase it separately. Only the bundle pack OWL access code includes the e-Solutions Manual. To set up your OWL account, go to www.cengage.com/OWL and click on “GOB/Allied Health Chemistry” → “register”. A new window will open. Click on the link for General, Organic, and Biological Chemistry, 6th Edition: Stoker and then select “Oakland University” from the Quick Link Index. Then select “Student Registration” under Chemistry Department. The course name and section for this course are “Chemistry 201 Winter 2014 Section 1”. The deadlines for homework assignments will be generally be set to be about a week after completion of the related chapters in the lecture. The score on the homework assignments will be adjusted to a 60 points possible total to be equal 10% of the available points.
EXAMS AND GRADING: Grades are based upon scores from hourly exams, a final exam, homework assignments, and assignments done in class.

The dates of the exams are January 29, March 5, and April 2. Exams are worth 100 points each, and all of them count towards the exam. If you happen to miss an exam, you must contact me by e-mail or voice mail within 24 hours of the exam to be allowed to take a make-up exam. The first make-up exam that you would take will be similar to the one that you missed; subsequent make-up exams will get harder. The tests will not necessarily take the entire hour period, and do not require Scantrons. Topics that will be on the test will be announced in class the week before.

The final exam is from 3:30 to 6:30 on Wednesday, April 23, 2014, in accordance with the university final exam schedule. The final exam is the American Chemical Society exam, which requires a Scantron form 882, available from the bookstore. The final will contribute 100 points towards the course grade. The determination of points may be curved.

You do not need calculators during the hourly exams. If you are caught with a calculator, cell phone, or any other electronic device in use or in sight during an exam, your exam will immediately be collected and you will get a zero on it. Turn off your cell phone before tests. Although it is possible to make-up missed tests, you may not retake tests. Once you start a test, that is your one chance.

Homework assignments will be on OWL. There will be one assignment each week that there is not a test, starting with the second week of class. The available times to complete the homework assignments will be shown on OWL. Each assignment is worth 10 points. Additionally, the introduction to OWL will be due the first week.

Group Assignments to be done during class will occur at unscheduled times during the semester. Each person in the group will get the same grade. The assignments will be worth 9 points each, and the top five will count towards the grade. The actual number of such assignments may be six or seven. If you are absent (for any reason) you may not make up a group assignment that you may have missed.

At the end of the semester all the points will be added together and grades assigned.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
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<tbody>
<tr>
<td>Three hourly exams @ 100 points</td>
<td>300</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
</tr>
<tr>
<td>Ten homework assignments @ 10 points</td>
<td>100</td>
</tr>
<tr>
<td>Introductory OWL assignment</td>
<td>5</td>
</tr>
<tr>
<td>Group assignments (best 5 @ 9 points)</td>
<td>45</td>
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<td>550</td>
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Grades will be assigned by the total number of points (not a curve).

- 91% or more (500 or more points) = 4.0
- 89 to 91% (488 to 498 points) = 3.9
- 87 to 88% (478 to 487 points) = 3.7
- 85 to 86% (467 to 477 points) = 3.5
- 84% (462 to 466 points) = 3.4
- 83% = 3.3, 80% = 3.0, etc., i.e. 80% = 3.0, add 0.1 for each additional percent,
- 70% = 2.0, 60% = 1.0, add 0.1 for each additional percent.

Midterm grades will only be given to students with less than a 70% average.

ACADEMIC INTEGRITY: Students are expected to follow the Academic Conduct Regulations in the student handbook, available online at www2.oakland.edu/deanofstudents/handbook/acr.efm.
TENTATIVE LECTURE SCHEDULE
Topics covered in lecture are approximate. The test dates are fixed, and will only change in the event of cancellation of class (e.g., a snow day).

Day     Topic
January 6  Chapter 12
January 8  Chapter 12
January 13 Chapter 12, 13
January 15 Chapter 13
January 20 No Class, Martin Luther King Day
January 22 Chapter 13, 14
January 27 Chapter 14
January 29 **FIRST TEST**, possible lecture on Chapter 14
February 3  Chapter 14,15
February 5  Chapter 15
February 10 Chapter 15,16
February 12 Chapter 16
February 17 Chapter 16,17
February 18 Chapter 17
February 24 No Class, Winter Break
February 26 No Class, Winter Break
March  3  Chapter 18
March  5  **SECOND TEST**, possible lecture on Chapter 18
March 10  Chapter 18
March 12  Chapter 19
March 17  Chapter 19, 20
March 19  Chapter 20
March 24  Chapter 21
March 26  Chapter 22, 23
March 31  Chapter 23
April  2  **THIRD TEST**, Possible lecture on Chapter 24
April  7  Chapter 24
April  9  Chapter 25
April 14  Chapter 26
April 16  Chapter 26 and review
April 23  **FINAL EXAM 3:30 to 6:30**

March 17 is the last day to withdraw.