INSTRUCTOR’S INFORMATION
Name: Dr. Ghassan M. Saed
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

CATALOG COURSE DESCRIPTION
CHM201-10115 (4 credits) 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 (chapter 12 and 13) includes the basics of nomenclature. Discussion of functional groups with single bonds to oxygen, sulfur, or a halogen (chapter 14) is followed by a short chapter on amines, which are so important to the chemistry of living things and drugs (chapter 15). After introducing aldehydes and ketones (chapter 16), the chemistry of carboxylic acids and their derivatives (including amides) is covered (chapter 17), with a focus on similarities among the derivatives.

Biological chemistry chapters 18-29: Because the time we have available to cover biochemistry is limited we will focus on studying carbohydrate chemistry (chapters 22 and 23), protein structure and metabolism (chapters 18 and 28), and lipid chemistry (chapters 24, 25).

TEXT: General Organic and Biological Chemistry 6th edition, w/ media, McMurry, Castellion and Ballantine, Pearson/Prentice Hall. The pace will be one chapter of text per week. DO NOT FALL BEHIND!


COURSE MATERIALS
CHAPTERS: We will be covering 12 chapters at a pace of one chapter per week in the following order: 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), chapter 18 (Amino Acids and Proteins), chapter 22 (Carbohydrates), chapter 24 (Lipids), chapter 23 (Carbohydrate Metabolism), chapter 25 (Lipid Metabolism), and chapter 28 (Protein Metabolism)

VIRTUAL LABS (VCL): We will be covering 12 VCL at a pace of one VCL per week in the following order: VCL 2-2, VCL 2-4, VCL 2-8, VCL 2-11, VCL 2-14, VCL 5-2, VCL 5-4, VCL 8-2, VCL 9-1, VCL 9-2, VCL 9-3, VCL 12-4. Each VCL is worth 5 points. They must be completed and turned in by the due dates. The first 6 VCL (VCL 2-2, VCL 2-4, VCL 2-8, VCL 2-11, VCL 2-14, VCL 5-2) are due on the day of the mid-term and the second 6 VCL (VCL 5-4, VCL 8-2, VCL 9-1, VCL 9-2, VCL 9-3, VCL 12-4) are due on the day of final exam. The tests will include questions on the virtual labs to ensure you have done your own individual work.

QUIZZES: Twelve quizzes will be given throughout the course. Each quiz is worth 5 points. Please refer to Mastering Chemistry for the quiz assignments and their due dates.

HOMEWORK: Twelve homework assignments will be given throughout the course. Each homework is worth 5 points. Please refer to Mastering Chemistry for the homework assignments and their due dates.

STYLE OF COURSE: Given the size of the class, lecturing will predominate. I won’t lecture about everything in the text. Rather, lectures will focus on the main themes of each chapter. Nevertheless, you are responsible for everything in the lectures and in the text (except for a few exclusions that will be listed as I go along). Lectures will be delivered online during the chat hour. Power point slides for all lectures are also available via Mastering Chemistry website, under student resources. Chat hours are tentatively scheduled every Saturday from 10:00 to 11:00 AM throughout the course. You are requested to login to the chat forum during those hours. Chat hour’s time and duration is subject to change dependent on our need. I will be lecturing and discussing one chapter per week. It is your choice not to attend this very important session but you are responsible for all the materials discussed during the session. If you miss a chat session, you can view past chat session.

DISSCUSSION BOARD: The discussion board is specifically designated to discuss any topic related to this class. I will closely monitor everything posted. I will respond and answer all your questions in a timely manor. I also encourage all of you to answer questions and concerns of the others, if you know the answer. If you need to discuss any private matter and do not wish to share it with your classmates please use the email specifically designated for this class. Please do not use my saed@oakland.edu email. I will not answer it.
EXAMS AND GRADING
This class requires two on campus meeting, one for mid-term and the other for the final exam. Specific dates, time and location will be announced soon. Grades are based on scores collected from mid-term and final exams, VCL, quizzes and homework assignments. The mid-term exam will cover chapters 12-17 only. The final exam is comprehensive American Chemical Society (ACS) exam, which will cover all chapters. Examinations are based on material covered in the textbook. Exams will consist of multiple-choice questions.

The graded work will be:
Mid-term exam 100 points
Final Exam 100 points
VCL 60 points (5 points/VCL)
Homework assignments 60 points (5 points/HW)
Quiz assignments 60 points (5 points/quiz)

The maximum number of points that any student can accumulate is 380 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.

Scantron forms F-1712-PAR-L are required for mid-term and final exams. Scantron forms are available at the Book Store (Student Congress may offer them for free). Bring one and a pencil each EXAM. The grading machine is very accurate, but you won't receive credit in the case of your poor erasure; therefore, work out your answers completely on the question sheet (which you may write on and keep), and, only then, transfer them to the answer sheet.

The only electronic device allowed is a calculator. The only calculators allowed are the TI-30X or TI-30X Solar scientific calculators. 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.

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. You will receive ongoing grade feedback on Moodle; click on “Grades” in the left column. Grading disagreements should be submitted in writing. I will make a decision, based on the logic of your argument.

The University also asks us to record midterm grades on SAIL. They will be available about March 1, using S/U grading. If your grade at that point is below
a 2.0, a U (Unsatisfactory) will be listed. If no grade is listed, assume an S (Satisfactory) grade. Final course grades, however, will be numerical. The Oakland grading system is: 3.6 to 4.0 = A, 3.0 to 3.5 = B, 2.0 to 2.9 = C, 1.0 to 1.9 = D, 0.0 = E.

**ELECTRONIC AIDS:** You must be able to access two different web sites.

**Moodle:** Our Moodle site is at: [http://moodle.oakland.edu](http://moodle.oakland.edu) and there is no class password; every class registrant is automatically in the system. Students have course access to Moodle one week before the semester starts. Note: Using Internet Explorer to access Moodle will generate errors. You must get the Firefox browser from a free download at [http://www.mozilla.com](http://www.mozilla.com). You must check Moodle for the latest news, announcements, class assignments, course syllabus, and grades.

**Mastering Chemistry:** Mastering Chemistry will be used for homework and quiz assignments. Click on Mastering Chemistry link on Moodle and register your self. Instructions of how to register are posted on Moodle under Mastering Chemistry login information.

**SUGGESTIONS FOR STUDYING:** Each semester some students come to me puzzled as to why they are not doing well. There are two main reasons. One group of students just isn't spending enough time studying. As a rule of thumb, expect to spend six hours per week per credit. A second group of students is putting in the time but still not getting the results. This results from following teacher and text too mechanically. Look at the material from a fresh and deeper perspective. You can't succeed by sheer memorization; you must also understand and be able to use the concepts.

**TIMETABLE**

Mid-term Exam: is scheduled for Saturday February 20th from 10:00 am to 1:00 pm in room (to be announced)

Final Exam: is scheduled for Saturday April 24 from 10:00 am to 1:00 pm in room (to be announced)

**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.