CHM 201
Introduction to Organic and Biological Chemistry
Winter 2010

Instructor: Sitaramayya Ari, Ph.D.
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Office Hours: MW 2:00 – 3:00 p.m.
Class meets MW 3:30 to 5:17 pm; No class on January 18, February 22 and 24.

REQUIRED:

1. Textbook  
   Fundamentals of General, Organic and Biological Chemistry, with MediaPak
   John McMurry, Mary Castellion, and David Ballantine - 5th Edition
2. Other  
   Scantron forms 882 and Scientific Calculator (no graphing calculators)

Recommended:  

COURSE DESCRIPTION:

Chemistry 201 (CHM 201) is the second semester of a one year course in general, organic and biological chemistry. This course will give a basic overview of organic chemistry and biochemistry emphasizing the physiological aspects. We will discuss material in chapters 12 through 28 in the textbook and the topics covered include nomenclature using IUPAC rules; structure, function and reactivity of organic compounds; and protein, lipid and carbohydrate metabolism. This course in not intended for chemistry majors, premed etc.

Prerequisite: CHM 104 or its equivalent, or knowledge of general chemistry.

LEARNING OUTCOMES:

- Name compounds using IUPAC rules.
- Identify compounds and their biological functions.
- Know the major metabolic pathways for lipid, carbohydrate, and proteins and the final products associated with these pathways.
- Be familiar with some of the major chemical messengers, hormones and neurotransmitters, and understand how chemical messengers work.
- Have a general understanding of the physiological relevance of the organic compounds discussed.
**Sample tests:** You will do well in the exams if you work on the problems presented at the end of each chapter. Working in groups of two or three students would be helpful.

**CLASSROOM BEHAVIOR:**

**Cell phones:** *Should not be used in class for any purpose.* You may have points deducted if your cell phone or pager can be heard going off in class. Listening to MP3 players in class will cost you points.

**Laptops:** Must not be turned on in class.

**Late arrival:** Students should be in class before 3:35 pm; late arrival will be considered a disturbance and may cost points.

**Attendance:** No formal attendance. However, *exam dates will be announced only in class and take-home assignments will be distributed only in class.* There will be no make ups for any exam or take-home assignment missed because you were not in class. Health-related absence must be certified in writing by a physician. Conflict for any particular date should be brought to my attention during the first week of the semester.

**Conversations in class:** There will be none. Any student found talking to another during the lecture will be asked to leave and will lose points.

**EXAMS:**

*Tentatively* there will be three in-class exams (38 points each) and two take-home assignments (38 points each) during the semester each covering specific chapters in the textbook. All exams will be given at the beginning of the class and will be followed by lecture. No make-up exams and no extra credit assignments will be given. The comprehensive final exam will be for 100 points. You will need Scantron form 882 for all the exams. Crumpled, mutilated forms will not be scored.

**Grading:**

Final numerical grades will be determined as follows: 90% of the maximum points will be assigned a 4.0 grade; 45%, a 2.0 grade; and 22.5%, a 1.0 grade.

**ACADEMIC CONDUCT:**

Students are expected to uphold the academic standards set by Oakland University. The work submitted by any student should be their own work. Students suspected of academic misconduct will be reported to the academic conduct committee. Examples of academic misconduct are but not limited to looking off another student’s exam, the use of materials not authorized by the instructor like cheat sheets or electronic equipment, obtaining copies of exam questions prior to the exam date, changing answers on your exam sheet after grading, the submission of assignments that has been copied from another student’s work, plagiarism, or another student taking tests or completing the course for you. Students found guilty of academic misconduct will receive a zero grade for this course. For further details see Academic Conduct Policies section in the Undergraduate Catalog.