Course Syllabus

CHM 235 ORGANIC CHEMISTRY II Winter 2010

Dr. Nessan Kerrigan

Class Hours:
10.00-11.47am Tuesday and Thursday. Class Location: 203 ODH.

Office Hours:
Office: 205 SEB. Tuesday (12:30-2:00pm) and Thursday (12:30-2.00pm) or by appointment. Phone: 248-370-2085. E-mail: kerrigan@oakland.edu

Text:
Organic Chemistry by Paula Yurkanis Bruice (5th Edition; ISBN 0-13-196316-3). 4th edition can also be used (some of the chapters are in different order to the 5th edition, and there are extra problems in the 5th edition, so the 5th edition is preferable if at all possible).

Textbook and study guide are essential for passing this course. Purchase them asap.

Bulletin Board:
Exam keys, handouts etc. will be posted on a bulletin board at the end of the hallway that runs east in the SEB building (Chemistry Department, 2nd floor, across from room 216).

Contents of Lectures:

Chapter 13: NMR Spectroscopy.
Chapter 14: Aromaticity and Reactions of Benzene.
Chapter 15: Reactions of Substituted Benzenes.
Chapter 16: Carbonyl Compounds I – Nucleophilic acyl substitution.
Chapter 17: Carbonyl Compounds II – Reactions of Aldehydes and Ketones, etc.
Chapter 18: Carbonyl Compounds III – Reactions at the α-carbon.
Chapter 20: More about Amines – Heterocyclic compounds.
Chapter 21: Carbohydrates.
Tentative Lecture and Examination Schedule:

Week #1 (Jan. 5th)       Tu, Th  lectures chapter 12
Week #2 (Jan. 12th)     Tu, Th  lectures chapter 12, 13
Week #3 (Jan. 19th)     Tu, Th  lectures chapter 13, 14
**Quiz #1 (Chapters 12-13):** Thursday January 21st
Week #4 (Jan. 26th)     Tu, Th  lectures chapter 14, 15
Week #5 (Feb. 2nd)      Tu, Th  lectures chapter 15, 16
**Examination #1 (Chapters 12-14):** Thursday February 4th
Week #6 (Feb. 9th)      Tu, Th  lectures chapter 16, 17
Week #7 (Feb. 16th)     Tu, Th  lectures chapter 17
**Quiz #2 (Chapters 15-16):** Thursday February 18th
Week #8 (Mar. 2nd)      Tu, Th  lectures chapter 18
**Examination #2 (Chapters 15-17):** Thursday March 4th
Week #9 (Mar. 9th)      Tu, Th  lectures chapter 19
Week #10 (Mar. 16th)    Tu, Th  lectures chapter 20
**Quiz #3 (Chapters 18-19):** Thursday March 25th
Week #11 (Mar. 23rd)    Tu, Th  lectures chapter 21
Week #12 (Mar. 30th)    Tu, Th  lectures chapter 22
**Examination #3 (Chapters 18-20, 22):** Tuesday April 6th
Week #13 (April 6th)    Tu, Th  lectures chapter 21
Week #14 (April 13th)   Tu, Th  Catch-up/Review
**Final Exam (ACS Final: Chapters 1-22):** Thursday April 22nd 8.00-10.00am.

**Course Grading:**

- 3 Exams @ 100 pts each 300
- 3 Quizzes @ 15 pts each 45
- Final exam (chapters 1-22) @ 200 pts 200
- 545 pts total
General Policies and Procedures

Registration:
Prerequisite: CHM 234 (Organic Chemistry I). The last day for a 100% tuition refund and a “no grade” drop is January 19th and the last day for an official withdrawal is March 16th.

Examinations:
There will be three examinations and one comprehensive final exam. There will also be three short quizzes. The scoring of the exams is shown on the tentative lecture schedule. **There will be no make up exams or quizzes**, missed exams or quizzes will be recorded as zero. The exams will cover lecture material and may also include assigned reading material. The questions will be similar to the Problems found in each chapter of *Organic Chemistry (5th Ed.)* by Bruice, and they may be identical. **You will not be permitted to leave the examination room in the middle of the exams and return to continue the examination.** If you have a medical reason that makes this policy a problem, please notify me as soon as possible so we can resolve the problem before it arises. Quizzes will consist of 3-8 multiple choice questions, and will be similar to the Chapter Problems from *Organic Chemistry (5th Ed.)* by Bruice. The Final exam consists of 70 Multiple choice questions.

*Note:* Some Graded exams will be copied prior to their return.

Grading:
After each exam the average % will be shown in class so you can determine where you stand relative to the rest of the students, I will also indicate an approximate % distribution for each exam. During the seventh week of the semester, any students who are not making satisfactory progress will have such information entered in the on-line Banner system (a U will be entered). You will be notified when the Mid Semester Evaluations are available. If you are concerned about your grade I encourage you to come talk with me, at any time, so that we can assess the problem and develop potential solutions.

Office Hours:
In addition to formal office hours, I encourage you to come to my office whenever you are having a problem. If I’m unavailable at that time we can schedule a mutually agreeable time. E-mail questions are also encouraged. I am often unavailable the day immediately before an exam so it is important that you come and ask questions before that time.
**Assignments:**

It is expected that the following will be completed in advance of the specified chapter lectures: **Read the chapter, complete all problems in the chapter, and complete all additional problems at the end of the chapter.**

There is a LARGE amount of material covered in this course. Do not get behind, this is written by your textbook author in the preface and repeated by me for a reason. Some material requires memorization but most of it requires an understanding of concepts and application of those concepts in different contexts. If you fall behind it is extremely difficult to catch up. **Practice by doing lots of problems is essential.**