CHEMISTRY 4-124       Organic Chemistry II Major       Spring 2014

Time:           MWF 9:30 - 10:20 am; W 55CB

Instructor:     Professor Hien Nguyen
                Office: E433 Chemistry Building
                Phone: 319-384-1887
                Email: hien-nguyen@uiowa.edu
                Office Hours: Monday & Thursday 1:00 – 2:30 pm or by appointment

Discussion:     TA – Qi Zhang
                Email: qi-zhang@uiowa.edu
                Office Hours: Friday 10:30 – 11:30 am and 2:30 – 3:30 pm

Textbooks:      Jones and Fleming, Organic Chemistry 4th Edition (required)
                HGS Molecular Model Set – C SET for Organic Chemistry (required)

Exams:          EXAM I  Wednesday, 02/19, 6:30 – 8:30 pm
                EXAM II  Wednesday, 03/26, 6:30 – 8:30 pm
                EXAM III  Wednesday, 04/23, 6:30 – 8:30 pm
                FINAL EXAM  TBA

Grading:        Unannounced Quizzes  100
                Problem Sets  240
                Seminar  60
                Exam I  100
                Exam II  100
                Exam III  100
                Final Exam  100

Exams: If you know that you will miss an exam, please inform me at least two weeks in advance and provide the appropriate written documentation. I will then rearrange the time that will fit into your schedule. All exams are cumulative including the final exam.

Quizzes: There will be unannounced quizzes at the beginning of the lecture. Seven or eight quizzes will be given over the course of the semester, and the highest five quizzes will be counted in your final grade. There will be no make-up quizzes.

Homework: There will be approximately 10-12 problem sets (extra and graded). For extra problem sets, you can work together. In addition, you will receive 5 extra points if you turn them to your TA during your discussion section. Only graded problem sets will be collected, and you MUST work independently on the graded problem sets.
Seminars: In order to receive full credit for seminars, you MUST attend six seminars given by the invited speakers in the departmental colloquium or organic division. After the seminar, you write a short half-page to summarize the seminar and you must also include the speaker’s name, institution, and his/her seminar title.
   A) Chemistry Colloquium: Friday at 3:30 pm in W128 CB
   B) Organic Division Seminar: Thursday at 12:30 pm in W268 CB

Course Administration: A majority of course business can be accomplished at the Chemistry Center, E225 CB. The hours are 8 AM -12 Noon & 12:30 – 4:30 PM on M-F, and the contact person is Jessica Alberhasky (335-1341). The following issues SHOULD be achieved at the Chemistry Center: drop/add forms, section changes, and TA office hours.

Complaints: complaints and appeals can be filed at the Department of Chemistry offices located in E331 CB (335-1350).

Tentative Schedule:

Chapter 12: Diels-Alder Reaction (Reading: 12.5 – 12.12)

Chapter 14: Substitution Reactions of Aromatic Compounds (Reading: 14.4 – 14.11)

Chapter 15: NMR Spectroscopy (Reading: 15.4 – 15.8)

Chapter 16: Carbonyl Chemistry 1 (Reading: 16.2 – 16.18)

Biological Nucleophile Addition and Oxidation/Reduction Reactions (Handout)

Chapter 17: Carboxylic Acids (Reading: 17.2 – 17.8)

Chapter 18: Carboxylic Acid Derivatives - Acyl Compounds (Reading 18.2 – 18.11)

Biological Nucleophilic Acyl Substitution (Handout)

Chapter 19: Carbonyl Chemistry 2 – Reactions at the α-Position (Reading 19.2 – 19.15)

Biological Aldol and Michael Addition Reactions (Handout)

Chapter 20: Reactions Controlled By Orbital Symmetry (Reading 20.2 – 20. 8)
College Statement

Administrative Home: The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Questions may be addressed to 120 Schaeffer Hall or see the CLAS Student Academic Handbook [www.clas.uiowa.edu/students/academic_handbook/index.shtml].

Electronic Communication: University policy specifies that students are responsible for all official correspondences sent to their standard University of Iowa e-mail address (@uiowa.edu). Students should check this account frequently. (Operations Manual, III.15.2. Scroll down to k.11.)

Academic Fraud: Plagiarism and any other activities when students present work that is not their own are academic fraud. Academic fraud is a serious matter and is reported to the departmental DEO and to the Associate Dean for Undergraduate Programs and Curriculum. Instructors and DEOs decide on appropriate consequences at the departmental level while the Associate Dean enforces additional consequences at the collegiate level. See the CLAS Student Academic Handbook.

Making a Suggestion or a Complaint: Students with a suggestion or complaint should first visit the instructor, then the course supervisor, and then the departmental DEO. Complaints must be made within six months of the incident. See the CLAS Student Academic Handbook.

Accommodations for Disabilities: A student seeking academic accommodations should first register with Student Disability Services and then meet privately with the course instructor to make arrangements. See www.uiowa.edu/~sds/ for more information.

Understanding Sexual Harassment: Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the University Comprehensive Guide on Sexual Harassment at www.uiowa.edu/~eod/policies/sexual-harassment-guide/index.html for assistance, definitions, and the full University policy.

Reacting Safely to Severe Weather: In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. (Operations Manual, IV.16.14. Scroll down to e. h. and i.)