Chem 212 - Organic Chemistry II  
Spring 2007 - Room 30 MCB

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This syllabus is subject to change without any prior notice. Although changes will be announced during class, students are encouraged to check the on-line requirements weekly (ANGEL).

Objectives:  
CHEM 212 is a continuation of the principals of organic chemistry first introduced in CHEM 210. More emphasis is placed on characterization and application of organic molecules particularly in biological systems. Much of the material builds upon the information obtained in previous chemistry courses.

Textbook:  

Approximate Grading Criteria:  
3 midterm exams  55%  
6 quizzes (drop 1)  10%  
1 final exam (during finals week)  25%  
Assigned problems  10%

Final Grading:  
A  92-100%  
A- 90-92%  
B+ 88-90%  
B  82-88%  
B- 80-82%  
C+ 78-80%  
C  70-78%  
C- 68-70%  
D  60-70%  
F < 60%

Academic Integrity/Plagiarism:  
Any form of cheating/plagiarism will be considered a "major infraction" (as defined by current University policy) and immediate appropriate action will be taken. All students are expected to act with civility, personal integrity; respect other students' dignity, rights and property; and help create and maintain an environment in which all can succeed through the fruits of their own efforts. An environment of academic integrity is requisite to respect for self and others and a civil community. Academic integrity includes a commitment to not engage in or tolerate acts of falsification, misrepresentation or deception. Such acts of dishonesty include cheating or copying, plagiarizing, submitting another persons' work as one's own, using Internet sources without citation, fabricating field data or citations, "ghosting" (taking or having another student take an exam), stealing examinations, tampering with the academic work of another student, facilitating other students' acts of academic dishonesty, etc. Academic dishonesty violates the
fundamental ethical principles of the University community and compromises the worth of work completed by others. A student should avoid academic dishonesty when preparing work for any class. If charged with academic dishonesty, students will receive written or oral notice of the charge by the instructor. Students who contest the charge should first seek resolution through discussion with the faculty member or the campus Director of Academic Affairs. If the matter is not resolved, the student may request a hearing with the Commonwealth College Committee on Academic Integrity at the campus. Sanctions for breaches of academic integrity may range (depending on the severity of the offense) from F for the assignment to F for the course. In severe cases of academic dishonesty, including, but not limited to, stealing exams or "ghosting" an exam, students may receive a grade of XF, a formal University disciplinary sanction that indicates on the student's transcript that failure in the course was due to a serious act of academic dishonesty. The University's statement on Academic Integrity from which the above statement was drawn is available at:
http://www.psu.edu/dept/oue/aappm/G-9.html

Students with Disabilities:
Penn State is committed to providing access to a quality education for all students, including those with documented disabilities. If a student has a disability and wishes an accommodation for a course, it is the student's responsibility to obtain a University letter confirming the disability and suggesting appropriate accommodation. This letter can be requested from the York campus Disability Contact Liaisons, Dr. Sharon Christ, Student Affairs, and Dr. Cora Dzubak, Learning Center. Students are encouraged to request accommodation early in the semester so that, once identified, reasonable accommodation can be implemented in a timely manner.
**Tentative course outline:**

Chapter 12 - Mass and infrared spectroscopy (2 lectures)
Chapter 13 - NMR spectroscopy (4 lectures)
Chapter 19 - Aldehydes and ketones (5 lectures)
Chapter 20 - Carboxylic acids (2 lectures)
Chapter 21 - Carboxylic acid derivatives (3 lectures)
Chapter 22 - Carbonyl α-substitution reactions (3 lectures)
Chapter 23 - Carbonyl condensation reactions (4 lectures)
Chapter 24 - Amines (3 lecture)
Chapter 31 - Synthetic polymers (3 lectures)
Chapter 25 - Carbohydrates (3 lectures)
Chapter 26 - Proteins (3 lecture)
Chapter 28 - Heterocycles and nucleic acids (2 lectures)
Chapter 30 - Pericyclic reactions (4 lectures)