

## Department of Chemistry

### Chemistry 721

### Organic Chemistry III

Fall 1996

Professor: Dr. Allen D. Hunter (Office - Room 5015, Ward Beecher Hall) 742-7176.  
(NMR and X-Ray Labs, Rooms 5031 and 5020/24) 742-2261

- Textbooks:
1. Fox and Whitesell, "Organic Chemistry", 1<sup>st</sup> Edition, Jones & Bartlett, 1994 (required).
  2. Fox and Whitesell, "Organic Chemistry: Study Guide and Solutions Manual", 1<sup>st</sup> Edition, Jones & Bartlett, 1994 (recommended).
  3. Handouts, Problem Sets, and Exams Plus Answers for Chemistry 721, Fall 1996 Revision (required)
  4. Lab Coat, Safety Glasses, Paper Towels, Notebook, etc., for the lab (required).
  5. Molecular Model Set (recommended).

Lecture: Tuesday 5:40 to 6:30 and Thursday 5:40 to 7:30

Office Hours: Monday 9:00 to 11:00; Tuesday 6:30 to 7:30; Wednesday and Friday 9:00-10:00; or by appointment (I'll be in WB 5015 (my office), 5031 (the NMR lab), or 5024/5020 (the X-ray lab)).

Lecture(s)	Chapter(s)	Title
1		Introduction to Chemistry 721
2 - 5	12	Reaction of Heteroatomic Nucleophiles as $sp^3$ -Hybridized Carbons
6 - 9	13	Reactions of Carbon Nucleophiles as $sp^2$ -Hybridized Carbons
10 - 13	14	Skeletal - Rearrangement Reactions including Cycloaddition
14 - 17	15	Multi Step Syntheses
18 - 21	16	Polymers
22, 23	17	Oxygen Containing Natural Products
24, 25	18	Nitrogen Containing Natural Products
26 - 30	19 - 23	Special Topics

\* This schedule is tentative and the order and relative weighting of topics may be revised as the class progresses.

#### GRADING SYSTEM

#### TOTAL POINTS

Biweekly Quizzes (50 Points Each)	200
Laboratory	100
Final Exam (this exam is comprehensive)	150
Total	450

A 90 - 100%

B 78 - 89%

C 65 - 77%

D 50 - 64%

F Below 50%

**Exams:** The biweekly quizzes will be given on or around the third, fifth, seventh, and ninth Tuesdays (i.e. October 15th and 29th and November 12th and 26th). They each will be about a half hour long and they will **MAKE-UP EXAMS WILL NOT BE GIVEN**. Absences that have not been approved in advance will result in a grade of **ZERO** for that exam. Approved absences for sporting events, holidays, car breakdown, etc. will be given **only** if I am informed in advance and only if I agree. Absences for health reasons or family emergencies must be discussed with me within 24 hours of the missed exams for approval to be granted. The points for exams missed during approved absences will be applied to the final exam. An exam must be submitted for re-grading within 48 hours after it has been returned. The **whole** exam will be re-graded, not just single questions. *[Note: Representative exams are photocopied before they are returned. These photocopies are compared to the originals returned for re-grading to check if answers have been altered.]* **You must bring photo ID with you when you write exams and place it on the desk top.**

**Attendance:** Lecture attendance is mandatory and students are responsible for all information, material, and announcements made in class.

**Assigned Problems:** I will assign problems from the text and especially from my booklet regularly. These will not be graded but are very important since these are the questions on which most of the exams will be based!

**Repeating the Class:** When repeating a course, the Chemistry Department has decided that it is in the best interest of our students to have all students repeat the entire course, *including the current laboratory!* To pass the course, you must obtain a grade of at least 70% in the laboratory portion and you must have successfully completed all the scheduled experiments.

**Safety:** The potential of risk is present in some lecture demonstrations and laboratory experiments. Accidents have been rare, but have happened. Faculty and staff members exercise great care to minimize and, where possible, eliminate all potential hazards. Additionally, minimization of risks requires that students come well prepared for each assigned exercise and are attentive in class. Safety glasses must be worn in the laboratory at all times. If you have a condition (e.g., chemical sensitivity, pregnancy) that might affect your laboratory safety, discuss it with your physician and instructor and alternate arrangements for the lab may be made. Contact the instructor immediately if you have any questions on this or any other safety issues.

**Incomplete grade policy:** The University incomplete grade policy has been changed. If no formal grade change occurs within one year, the "I" automatically converts to an "F". If graduation occurs within the one-year time period, the Incomplete Grade will be converted to an "F" before graduation.

**Materials fees:** The materials fees collected for this laboratory course are used to **partially** defray the cost of replacing expendable materials and obsolete equipment, repairing equipment, and obtaining new equipment appropriate for student use in state of the art instruction in the laboratory science of chemistry.

**Academic Honesty:** In accordance with university policy and professional standards, the highest levels of academic integrity are expected in this lecture and lab. The code of student conduct will be **strictly** enforced. Academic dishonesty will result in reductions in grades and/or expulsion from this class and/or the university.