

VIRGINIA STATE UNIVERSITY
DEPARTMENT OF CHEMISTRY AND PHYSICS
TENTATIVE SYLLABUS FOR ORGANIC CHEMISTRY 3

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Class Hours: W: 5:30 - 7:20

CHEMISTRY 320 Organic Chemistry 3
FALL, 2004
Office Hours: M, W: 9 - 10; MWF: 11 - 12; T: 2 - 3 or
see Departmental Secretary to schedule an
appointment.

Chemistry 320 (Organic Chemistry 3) examines the principles of organic chemistry with emphasis on synthesis, functional group manipulation, reaction mechanisms and the interpretation of spectroscopic data.

TENTATIVE SCHEDULE FOR CHM320

(Subject to Modification and Change)

<u>Date</u>	<u>Topics Covered</u>
8/25	Mass Spectrometry and Infrared Spectroscopy (Chapter 12)
9/1	Mass Spectrometry and Infrared Spectroscopy (Chapter 12)
9/8	Nuclear Magnetic Resonance Spectroscopy (Chapter 13)
9/15	Nuclear Magnetic Resonance Spectroscopy (Chapter 13)
9/22	Introduction to Polymer Chemistry (Chapters 7:10 and 14.7)
9/29	Carboxylic Acids and Nitriles (Chapter 20)
10/6	Carboxylic Acid Derivatives (Chapter 21)
/	10/13 Midterm Examination (Chapters 12, 13, 7, 14, 20, 21)
10/20	Carbonyl Substitution Reactions (Chapter 22)
10/27	Carbonyl Condensation Reactions (Chapter 23)
11/3	Chemistry of Amines (Chapter 24)
11/10	Chemistry of Carbohydrates (Chapter 25)
/	11/12 Last Day to Withdraw with a Grade of W
11/17	Synthetic Polymers (Chapter 31 and Supplemental Material)
/	11/24 No school 11/25 - 11/28 Thanksgiving Break
12/1	Pericyclic Reactions
12/7	Reading Day
i	12/8 Final Examination (Chapters 22, 23, 24, 25, 31, 30)

Textbook

The required textbook, *Organic Chemistry*, 6th Edition by John McMurry (Brooks/Cole), was selected because of its readability by the student and the quality of the problems it contains. The required companion volume *Study Guide and Solutions Manual* by Susan McMurry answers all in-text and end-of-chapter problems and provides a detailed explanation of how answers were obtained. **You must purchase both books!**

COURSE REQUIREMENTS

Course Activities

- i Course material will be introduced by way of lecture format. Questions are encouraged.
- i Midterm and Final examinations will be given as indicated on the attached schedule.
- i Test questions will be problems and essays similar to the problems discussed in class.
- i Extra credit will not be given at any time during the course. I do not make special arrangements for students who do not complete their work in the time frame allotted.

Student Evaluation

Two cumulative tests will be given during the semester covering the chapters as indicated previously. **No makeup exams will be given. No exam grades will be dropped.** The dates for exams are provided below so that you can arrange your schedule to be present.

Midterm	October 13	200 points
Final	December 8	<u>200 points</u>
Total Lecture Exams		400 points

Final grades will be computed as follows:

Earned Points	Final Grade
\$360	A
320 - 359	B
260 - 319	C
200 - 259	D
# 199	F

Special Consideration and Negotiation

According to the above scale grades are **earned**. I do not award grades nor will I negotiate grades. Grades cannot be influenced by factors such as: whether I like or feel sorry for you; whether you will lose a scholarship, forfeit tuition, or not graduate on time; whether you will be sent back to a repressive country; or whether your grade will ruin a previous excellent grade point average.

I may feel compassion for your circumstances, but please do not ask me to raise your grade on the basis of these considerations. This is unfair to other students in the class as well as you because it demeans your performance in the class.

Attendance

Attendance at lecture is required. **Attendance at tests is mandatory. Makeup tests will not be considered let alone given. A missed test will receive a grade of zero (0) regardless of reasons for missing the test.**

Homework Assignments

All of the problems in the textbook chapters we are discussing as well as supplementary problems distributed by me are assigned. It is strongly recommended that you complete them. These problems will occasionally be discussed during lecture, but they will not be collected, nor graded, nor evaluated. If you do not understand a homework problem please feel free to see me for assistance individually or in groups during my posted office hours or by making an appointment for a mutually convenient time through the Departmental secretary. Exam questions will be derived from these homework problems.

Additional Information

The University's policies on attendance, grading, academic honesty, and classroom decorum will be enforced.

Students who are covered under the American Disabilities Act should privately inform me of this fact so that appropriate instructional arrangements can be made.

Cellular phones and pagers should be turned off during class unless you expect an emergency. Please advise me prior to the class that you may be called out of class, otherwise, the offending cellular phone will be dissolved in a suitable organic solvent - methylene chloride (CH_2Cl_2) is particularly effective.

Bibliography

There are a number of very good organic textbooks available which you may use to reinforce concepts and for extra practice sessions. Additional books on the course subject material, including, *Organic Chemistry An Intermediate Text* by R.V. Hoffman, *Mechanism in Organic Chemistry* by R.W. Alder, R.

Baker, and J.M. Brown; *Advanced Organic Chemistry*, by B. Miller, and *Intermediate Organic Chemistry* by J.C. Stowell are available from me. You may borrow any one of these for a 24 hour period. In addition, Frostburg State University has an excellent organic chemistry web site <http://www.chemhelper.com/> which I strongly recommend you visit occasionally.