Chemistry 120 - Survey of Organic Chemistry
Course Syllabus - Spring Semester 2011
Oxford College of Emory University
Instructor - Dr. Saadein
Office – 216 Pierce

Text

"Introduction To General, Organic and Biochemistry," 9th edition, Student Study Guide and Solution Manual, By Bettelheim, Brown, Campbell and Farrell

PURPOSE

Chemistry 120 is designed primarily for pre-nursing students. Non-science students may also take this course to satisfy their laboratory science general graduation requirement. This course will provide each student with an opportunity to acquire an understanding of:

- Atoms, Periodic Table, Classification of Elements, Electron Configuration of Atoms, Lewis Dot Structures
- Chemical Bonds, Naming Ionic and Covalent Compounds, Lewis Structures of Covalent Compounds, Electronegativity and Polarity
- General Concepts of Acids and Bases, pH and Buffers
- Classification and Nomenclature of Organic Compounds based on their Functional Groups
- Basic Organic Reactions such as Nucleophilic Substitution, Elimination, Addition and Aromatic Substitution and their Mechanisms
- Stereochemistry and its Significance in the Biological World

EXPECTED RESULTS

Prior to the completion of the course, each student will have an opportunity to demonstrate his/her comprehension of concepts and competence in the topics stated above.

ATTENDANCE

All students are expected to attend all lecture and laboratory sessions. However, it is recognized that emergencies may arise which will necessitate absences from class. A student should notify the instructor if an absence is due to illness or other emergency. Students are responsible for all material covered in lecture if absent.

You are allowed 2 absences. If you exceed the two absence limit for whatever reason, you will lose 1 point for the next absence (number 3), 2 points for number 4 and 3 points for each additional absence. These points will be deducted from the final course average.

If a student misses an exam and presents the instructor with an acceptable excuse, a make-up exam may be arranged to replace the missed exam. The instructor must be notified by the day of the exam that the student will not be present and must be given the reason for the absence. If the excuse is not considered acceptable, the exam grade will be a zero. It is up to the instructor to make the determination as to whether an excuse is acceptable. In general, illness or an emergency situation are the only acceptable excuses for missing an exam. Missing an exam also counts as an absence in the course.

NOTICE: Falsification of information regarding absences is a breach of academic integrity and a violation of the Oxford College Honor Code.

PROBLEMS

Chemistry is inherently a problem-oriented course and tests will emphasize problem working; therefore, it is imperative that you become proficient at working problems on each topic. There are problems within each chapter; all of these should be worked and may be checked with the answers in the solutions manual. In addition, problems at the end of each chapter will be assigned for you to work; you may also check these at the back of the textbook or in the study guide. These problems are for your own benefit only; I do not take them up or check them. You should work problems as you encounter the material. You should also attempt each problem before seeking help from the book, your notes, or the solution manual. It is not sufficient to be able to follow how a problem is worked; on a test, you will have to work a problem all the way through, and the only way you will be able to do this is if you have worked and understood numerous practice problems.

EXAM SCHEDULE

Exam I, Thursday, February 3
Exam II, Thursday, March 3
Exam III, Tuesday, April 5
Exam IV, Tuesday, April 26

SCHEDULE*

First Exam: Chapters 2, 3 and 8
- Chapter 2 – Atoms
- Chapter 3 – Chemical Bonds

Chapter 8 – Acids and Bases

Second Exam: Chapters 10, 11, 12 and 13
Chapter 10 – Organic Chemistry
Chapter 11 – Alkanes
Chapter 12 – Alkenes and Alkynes
Chapter 13-- Benzene and its Derivatives

Third Exam: Chapters 14, 15 and 16
Chapter 14 – Alcohols, Ethers and Thiols
Chapter 15 – Chirality and handedness of Molecules
Chapter 16-- Amines

Fourth Exam: Chapters 17, 18 and 19
Chapter 17 – Aldehydes and ketones
Chapter 21 – Carboxylic Acids
Chapter 22 – Carboxylic Anhydrides, Esters and Amides

*Subject to change according to the class performance and unpredictable circumstances.

Final Exam

There will be a final exam covering the semester's material which will be given during the regularly scheduled final exam period.

PREPARATION FOR CLASS

The pace of this course is such that it normally is not sufficient merely to attend class and take notes. You must also make use of your textbook and the solution manual. Before coming to class, you should read the material to be covered; after class, you should read back over this material as well as your class notes.

REVIEW SESSION

A review session will be held before each exam; the date and time for each review session will be announced in class. These sessions are optional and voluntary; no new material will be covered. Students normally come to a review session to ask questions that have come up while studying or to see problems worked.

OFFICE HOURS

I will be available to answer your questions on Mondays and Wednesdays from 9:30 – 10:30. You can also make an appointment with me if you cannot see me on the designated office hours.

GRADING

Exam	Points	% of course grade
I	100	20%
II	100	20%
III	100	20%
IV	100	20%
Final Exam	100	20%
TOTAL		**100%**

Your exams grades will make 80%, and your lab grades will make 20% of your course grade.

90% - 92%	A-	73% - 76%	C
87% - 89%	B+	70% - 72%	C-
83% - 86%	B	67% - 69%	D+
80% - 82%	B-	60% - 66%	D
		below 60%	F

HONOR CODE

It is assumed that all Oxford College students will adhere to the highest standards of academic honesty and will uphold the Oxford College Honor Code.

On exams, you may not use any material not distributed with the exam itself except for calculators and pencils/pens. Any other material you bring into the room must be left at the front of the room. During an examination, you may not give or receive assistance. On assignments for outside class the work is to be your work alone – you may not give or receive any assistance, and you may use only materials authorized. Giving false information regarding absences or tardies is a violation of the Honor Code.