

**CHE 125 – PRINCIPLES OF GENERAL, ORGANIC, AND BIOCHEMISTRY
SYLLABUS – SUMMER 2006**

INSTRUCTOR: **Lecture:** JE 138 – Dr. J. Pang – Office: JE 323
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Laboratory: JE 309 – Dr. J. Pang

COURSE MATERIALS:

- (1) **Text:** Introduction to General, Organic and Biochemistry, 7th ed., Bettelheim, Brown and March, Thomson Learning, Inc. (2004)
- (2) **Laboratory Manual:** Laboratory Experiments for General, Organic and Biochemistry, 5th ed., F.A.Bettelheim and J.Landersberg, Harcourt College Publishers (2004)
- (3) **Bound laboratory notebook**
- (4) **Laboratory safety glasses or goggles: To be worn in the laboratory at all times!!!** You may use your own safety goggles if you wish. Safety goggles are available at the bookstore. **Contact lenses should not be worn in the laboratory.**

DETERMINATION OF THE COURSE GRADE:

Contributions to course grade:

Laboratory Grade:	25%
Three Exams:	75%

ATTENDANCE IS REQUIRED AT:

All examinations
All scheduled laboratories

LABORATORY GRADE:

A student must receive a passing grade (60%) in the laboratory to pass CHE 125.

SCHEDULE:

Exam #1: Thurs., July 13
Exam #2: Thurs., July 27
Exam #3: Thurs., August 3

COURSE OUTLINE:

The course begins with The Ionic Environment as presented by the instructor. Much of the material covered in this section is found in Chapters 6, 7 & 8 of the Bettelheim, Brown & March book and in CHE 120 textbook in the sections and chapters covering solutions, acids, bases, buffers and equilibrium. After completion of this material, the course follows the chapter order in the Bettelheim, Brown & March book starting from Chapter 10 Organic Chemistry.

General Chemistry:

- Solutions, Acids, Bases and Buffers

Organic Chemistry:

- Alkanes and Cycloalkanes
- Alkenes and Alkynes
- Alcohols, Ethers, and Thiols
- Benzene and Derivatives
- Amines
- Aldehydes and Ketones
- Carboxylic Acids, Anhydrides, Esters, and Amides

Biochemistry:

- Lipids, Carbohydrates, Proteins, and Nucleic Acids

UNUSUAL SITUATIONS:

If a student has unusual situations, unique problems, handicaps or difficulties which may affect performance in this course, or, which might cause personal danger or endanger others, these situations should be discussed with the instructor as soon as is possible.

Any student who is pregnant or plans to get pregnant should not enroll in this class because of the labs associated. Please contact the instructor for departmental policy on this issue.

Cheating in any form will not be tolerated. Academic dishonesty is defined in the Student Handbook and other University publications and includes either giving or receiving information on homework

assignments, class quizzes, hour examinations and laboratory reports. As a minimum, a grade of zero will be given as a result of cheating on any one assignment. Continued evidence of academic dishonesty may result in expulsion from the course.