

FUNDAMENTALS OF ORGANIC CHEMISTRY

CHEM 2353 SPRING, 2012

Section 010 Room CAV200 MWF 11:00 AM - 11:50 AM Mr. Boudreaux

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Office Hours: M-F 10:00 AM – 11:00 AM (*and by appointment*)

Organic chemistry nowadays almost drives me mad. To me it appears like a primeval tropical forest full of the most remarkable things, a dreadful endless jungle into which one does not dare enter, for there seems to be no way out.

Friederich Wöhler

Textbook: S. L. Seager & M. R. Slabaugh, *Organic and Biochemistry for Today*, 7th ed (2010)

Lab Manual: Kevin A. Boudreaux, *Fundamentals of Organic Chemistry Laboratory Manual (CHEM 2153)* (2005) [*required*]

Prerequisite: You **MUST** have passed CHEM 1301 or 1411 to receive credit for this course!

Course Description: In this class, you will study the fundamentals of organic chemistry, including the nomenclature of organic compounds, the influence of structure on the properties of organic compounds, and some of the major types of reactions of organic compounds.

Student Learning Outcomes:

To gain knowledge about the terminology and language of organic chemistry.

By the end of the semester the student should be able to:

- Recognize and understand the differences among different organic functional groups.
- Be able to name simple organic compounds and draw their structural formulas.
- Be able to predict the shape and hybridization of carbon-containing compounds.
- Understand the differences between organic molecules and inorganic compounds.
- Be able to correlate the shape and polarity of an organic molecule with the molecule's physical properties, such as boiling point and solubility.
- Be able to predict the products of some simple organic reactions.

Grading:

Exams (4)	100 pts. each*
Quizzes	100 pts.*
<u>Final Exam</u>	<u>150 pts.</u>
<i>Total</i>	<i>550 pts.</i>

Grading Scale:

A	90 - 100
B	80 - 89
C	70 - 79
D	60 - 69
F	below 60

* The lowest grade from among the four hour exams and the total quiz score will be dropped.

Attendance: Class roll will be taken regularly, and the attendance policy described in the 2010-2011 Undergraduate-Graduate catalog will be followed. Make-ups for exams or quizzes which have been missed for valid reasons must be taken *no later than one week following the absence*. No makeup assignments will be given unless a valid excuse can be furnished. If you miss a class, it is your responsibility to find out what you missed.

Lab Course: The lab course (CHEM 2153) is a *separate course* from the lecture. You will need lab goggles, and a copy of the lab manual for the course.

Reserve Material: Most of the slides which are projected on the LCD/overhead projector will be available on my faculty web page, <http://www.angelo.edu/faculty/kboudrea>. Keys to quizzes and exams will be posted on the bulletin board outside my office.

Homework: Suggested homework problems from each chapter of the textbook will be assigned regularly. These problems will not be graded, but they will be a good preparation for the quizzes and exams.

Quizzes: Quizzes will be given every week (usually at the beginning of class on Friday). They will be based on material presented since the previous quiz, and will be taken primarily from the problems in the textbook. There will be approximately 12 to 15 quizzes, worth 100 points each; the lowest two quiz grades will be dropped from the total; and the remaining quiz grades will be averaged together to obtain a 100 point grade. (The management reserves the right to have occasional pop quizzes as well.)

Exams: Four hour-long exams, each worth 100 pts., will be given on **February 3, February 27, March 26, and April 27**. (The problems from the textbook and the quizzes will be a good preparation for these exams.)

Final Exam: The comprehensive (but not, I hope, incomprehensible) Final Exam for this course will be on **Wednesday, May 9 from 10:30 am to 12:30 pm**. About half of the questions on the final will be taken from the three hour exams and the previous quizzes. **Students who must unavoidably miss the final exam at its regularly scheduled time must notify the instructor by noon of the day of the exam, otherwise no make-up provisions will be provided.**

Academic Honesty: Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook (p. 30-34). Students are expected to work independently on homework assignment, quizzes, and exams. Cheating and/or plagiarism will not be tolerated.

Withdrawal from the course: Anyone dropping this class by **Wednesday, April 4** will receive a grade of W. **No drops are allowed after this date.** If you need to drop the class, it is your responsibility to obtain the instructor's signature on any drop slip prior to that date.