CHMY 321
FALL 2009

INSTRUCTOR: Dr. Rhonda Dillman
OFFICE: Sci 245

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OFFICE HRS: 10:30 am –12:00 noon MWF or by appt.


RECOMMENDED MATERIALS:
1. Study guide to Wade’s text – this has solutions to all end of chapter problems.
2. Text: “Organic Chemistry as a Second Language” 1st or 2nd ed. by Klein
3. Molecular Model Kit – especially helpful for stereochemistry.

COURSE OBJECTIVES:
1. To be able to recognize and identify the major organic functional groups.
2. To be able to name organic compounds according to IUPAC rules.
3. To learn and understand the importance of acid/base chemistry in organic chemistry.
4. To learn and understand the importance of stereochemistry in organic chemistry.
5. To learn the major reactions of each of the functional groups and to use those reactions in the synthesis of more complex compounds.
6. To learn and understand a mechanistic approach to organic reactions.

CLASS GUIDELINES:
1. Attendance will be taken this semester and used to determine grades in borderline cases. More than 3 absences will result in the lower grade.
2. Read the material before you come to class. Lectures will be much easier to follow if you have seen the material before. It is important to keep up with the material. Organic tends to snowball very fast!!
3. Work the problems at the end of the chapters. Working problems is the best way to determine if you understand the material.
4. Ask questions and come see me as soon as you start to have problems. Don’t wait until it’s too late.
5. Please turn your cell phones off before you come to lecture especially on exam days!!

OUTCOMES ASSESSMENT (GRADING):
1. Exams must be taken at the assigned time unless excused beforehand.
2. All exams will be worth 100 points and may consist of short answers, problems, essays and multiple choice. Some of the exams may contain both an in-class and take-home portion. There will be 6 regular exams.
3. There will be an optional, comprehensive final for those who need to take it. The final can be used to replace one of your regular exam scores. However, you must be excused from any exam you do not take. Otherwise you will receive a zero that cannot be dropped.
4. You will be given homework problems at the end of each chapter. Most of the problems come from old exams. I will randomly select problems to grade from each set. Each homework set will be worth 10 points and you may drop one homework grade. The total homework points will count as a test grade. This test grade cannot be replaced with the final.
5. The grading scale will start out as follows. However the scale is subject to change by the end of the semester.

   A  90 and above
   B  80-89
   C  65-79
   D  50-64
   F  49 and below

   **Incompletes will be given for medical excuses only!!**
### CHMY 321 CLASS SCHEDULE

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**FINAL EXAM – Monday, Dec 14 from 2:00-3:50 pm – Remember this is comprehensive but optional**

**This schedule is subject to change at anytime throughout the semester**

### CHAPTER LISTING

- Ch 1 – Introduction and Review
- Ch 2 – Structure and Properties of Organic Molecules
- Ch 3 – Structure and Stereochemistry of Alkanes
- Ch 4 – The Study of Chemical Reactions
- Ch 5 – Stereochemistry
- Ch 6 – Alkyl Halides: Nucleophilic Substitution and Elimination
- Ch 7 – Structure and Synthesis of Alkenes
- Ch 8 – Reactions of Alkenes
- Ch 9 – Alkynes
- Ch 10 – Structure and Synthesis of Alcohols
- Ch 11 – Reactions of Alcohols
- Ch 12 – Infrared Spectroscopy and Mass Spectrometry

**POLICY ON ACADEMIC HONESTY:** All students are expected to adhere to the highest standards of academic honesty and refrain from any action that is dishonorable or unethical. In all examinations and homework, students are expected to submit their own work. Any violation of Academic Honesty Policy will be dealt with severely.