CHEM 334
SPRING 2006

INSTRUCTOR: Dr. Rhonda Dillman
OFFICE: Sci 217
PHONE: 657-2025 E-MAIL: rdillman@msubillings.edu
OFFICE HRS: 9:15-10:15 am MWF, 11:30 am-12:30 pm MW or by appt.
TEXT: “Organic Chemistry” 5th ed. by Wade. (The study guide is highly recommended.) “Organic as a Second Language – 2nd semester” by Klein is also recommended.

COURSE OBJECTIVES:
1. To continue the recognition and identification of major organic functional groups.
2. To name organic compounds according to IUPAC rules.
3. To learn the major reactions of each of the functional groups and to use those reactions in the synthesis of more complex compounds.
4. To learn and understand a mechanistic approach to organic reactions.
5. To learn and understand the use of different spectroscopic methods to identify organic compounds.

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. As you found out last semester, trying to play catch up is almost impossible!!
3. Work the problems at the end of the chapters. Working problems is the best way to determine if you understand the material.

OUTCOMES ASSESSMENT (GRADING):
1. Exams must be taken at the assigned time unless excused beforehand.
2. All exams will be worth around 100 points and may consist of short answers, problems, essays and multiple choice. Exams may contain an in-class and/or take-home portion. There will be 6 regular exams. You will NOT be allowed to drop an exam grade this semester.
3. The final is a year long comprehensive American Chemical Society exam. It is NOT optional. It will be worth 200 points. It will be curved based on the highest score in the class.
4. You will be given homework problems at the end of each chapter. I will randomly select problems to grade from each set. Each homework set will be worth 10 points and you may drop one grade. The total homework points will count as a test grade.
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!**
# CHEM 334
## CLASS SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>MONDAY</th>
<th>WEDNESDAY</th>
<th>FRIDAY</th>
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<tbody>
<tr>
<td>JAN 18-20</td>
<td>CH 11</td>
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<td>JAN 23-27</td>
<td>CH 11/14</td>
<td>CH 14</td>
<td>CH 15</td>
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<td>JAN 30-FEB 3</td>
<td>CH 15</td>
<td>CH 16</td>
<td>EXAM 1 (CH 11, 14-15)</td>
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<td>FEB 6-10</td>
<td>CH 17</td>
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<td>FEB 13-17</td>
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<td>CH 18</td>
<td>EXAM 2 (CH 16/17)</td>
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<td>FEB 20-24</td>
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<td>FEB 27-MAR 3</td>
<td>CH 18</td>
<td>CH 19</td>
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<tr>
<td>MAR 6-10</td>
<td><strong>SPRING BREAK</strong></td>
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<td>MAR 13-17</td>
<td>EXAM 3 (CH 18)</td>
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<td>MAR 20-24</td>
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<td>EXAM 4 (CH 19/20)</td>
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<td>MAR 27-31</td>
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<td>APR 3-7</td>
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<td>APRIL 10-14</td>
<td>EXAM 5 (CH 21/22)</td>
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<td>APRIL 17-21</td>
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<td>APRIL 24-28</td>
<td>EXAM 6 (CH 12/13)</td>
<td>REVIEW (FINAL)</td>
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**FINAL EXAM – Monday, May 1 12:00-1:50 pm**

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

## CHAPTER LISTING

- Ch 11 – Reactions of Alcohols
- Ch 14 – Ethers and Epoxides
- Ch 15 – Conjugated Systems
- Ch 16 – Aromatic Systems
- Ch 17 – Reactions of Aromatic Systems
- Ch 18 – Aldehydes & Ketones
- Ch 19 – Amines
- Ch 20 – Carboxylic Acids
- Ch 21 – Carboxylic Acid Derivatives
- Ch 22 – α-Substitutions and Condensations of Enols/Enolate Ions
- Ch 12 – IR Spectroscopy
- Ch 13 – NMR Spectroscopy