CHEM 2452
ORGANIC CHEMISTRY

SPRING QUARTER, 2004

Instructor:  Joseph M. Hornback
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Text: "Organic Chemistry", by Joseph M. Hornback

Problem Sessions: There is no formal recitation associated with this class. There will be no weekly quizzes. Each week there will be a problem session on Tuesday at 8:00 AM. During these sessions the instructor will go over the homework problems and answer any questions you have about them or the previous week's lecture. Attendance at these sessions is optional, but if you are having trouble understanding something, try to come to the help session. If you have a conflict, make an appointment with the instructor.

Homework: In the lecture outline you will find a set of homework problems listed for each chapter. These problems are to be turned in at the lecture designated in this syllabus. Working these problems is the best way to learn the material and to prepare for the exams since the exam problems will be similar to the homework problems. Working the problems also tells you whether you really understand the material or not.

It is important to keep up with the material as it is covered in class. Read your book and work the appropriate problems soon after the material is covered in class. If you fall behind, you will make the class much more difficult for yourself.

Exams: There will be three 50 min. exams during the quarter and a cumulative final exam, each worth 200 points. If your final exam score is higher than one of your other exam scores, that exam score will be dropped and your final will count double. There will be no make-up exams. If you miss an exam, for any reason, it will have to count as the dropped exam.

Grading: Your final grade will be based on a maximum of 870 points, distributed as follows: homework problems (7 sets at 10 points/set), 70 points; hour exams and final exam, 800 points.
<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>PROBLEMS</th>
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<tbody>
<tr>
<td>Mar. 22</td>
<td>Chapter 9&lt;br&gt;Synthetic Uses of Substitution and Elimination Reactions</td>
<td>Read pp. 345-392&lt;br&gt;Problems: 1-7, 8acd, 13, 14, 15a, 16-31, 32c-h, 33c-r, 34a-i, 35, 37, 38, 42. Due on April 9.</td>
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<td>Mar. 24</td>
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<td>Mar. 26</td>
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<td>Mar. 29</td>
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<td>Mar. 31</td>
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<td>Apr. 2</td>
<td>Chapter 10&lt;br&gt;Additions to Carbon-Carbon Double and Triple Bonds</td>
<td>Read pp. 401-452&lt;br&gt;Problems: 1, 2, 3abdef, 4bcd, 5-7, 9bc, 10, 11, 13-15, 17bd, 18, 19bc, 22-26, 27abcd, 28-32, 34, 35, 37, 44, 45. Due on April 18.</td>
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<td>Apr. 5</td>
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<td>Apr. 7</td>
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<td>Apr. 9</td>
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<td>Apr. 12</td>
<td>Chapter 12&lt;br&gt;Structure Determination by Spectroscopy I: Infrared and Nuclear Magnetic Resonance Spectroscopy</td>
<td>Read pp. 497-587&lt;br&gt;Problem Set A: 5, 6, 8bcd ef, 9, 11, 12bcd. Due on April 25.</td>
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<td>Apr. 14</td>
<td>EXAM 1</td>
<td>Chapters 9 and 10</td>
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<td>Apr. 16</td>
<td>continue Chapter 12</td>
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<td>Apr. 19</td>
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<td>Apr. 21</td>
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<td>Problem Set B: 14, 15bcd ef, 16abcdef, 17, 18, 19bcd ef, 20bcd ef, 21-27, 29, 30, 34, 36, 37-40. Due on May 9.</td>
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Apr. 23  continue
Apr. 26  continue
Apr. 28  continue
Apr. 30  continue

May 3  Chapter 13
       Structure Determination by
       Spectroscopy II:
       Ultraviolet-Visible
       Spectroscopy and Mass
       Spectrometry

May 5  Chapter 11
       Functional Groups and
       Nomenclature II

May 7  continue

May 10 Chapter 14
       Additions to the Carbonyl
       Group

May 12 EXAM 2

May 14 continue Chapter 14
May 17 continue
May 19 continue
May 21 continue
May 24 continue

May 26 EXAM 3

May 28 review

June 1 FINAL EXAM
8:00 - 9:45

Read pp. 608-627
Problems: 10-14, 18-27. Due on May 12.

Read pp. 461-492
Problems: 1-4, 7-12, 14, 15, 19-23. Due on
May 19.

Read pp. 635-682
Problems: 1, 2, 4-6, 7abd, 8-10, 12, 13,
15-28, 37, 41. Due on June 2.

Chapters 12 and 13

Chapters 11 and 14

Cumulative