CHEM 221  
SPRING 2005

INSTRUCTOR:   Dr. Rhonda Dillman
OFFICE:       Sci 217
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OFFICE HRS:   10:30 am – noon MWF or by appt

MATERIALS:
1. Lab text: “Macroscale and Microscale Exps.” 4th ed. by Williamson
2. SAFETY GLASSES!! These are mandatory –you will not be allowed in lab without them.
4. Waterproof Sharpie pen.
5. Lab coat or apron is optional but recommended.

COURSE OBJECTIVES:
1. To learn how to handle organic compounds (including hazardous waste) properly and safely.
2. To learn the techniques most commonly used in an organic lab.
3. To learn to read and interpret written experimental procedures.
4. To learn to organize and explain experimental data collected in the lab.
5. To learn to write a scientific lab report.

OUTCOMES ASSESSMENT (GRADING):
1. Lab reports will be worth 100 points per week broken down in the following way:
   40% - for performing the experiment – a report must be turned in
   60% - lab writeup
2. Prelab quizzes will be given before each experiment. This is to ensure that you read the
   experiment before you come to lab. They will be worth 25 points each and may contain 1-10
   questions.
3. The grading scale will be as follows:
   A  90-100
   B  80-89
   C  70-79
   D  60-69
   F  59 and below
   **This scale in NOT subject to a curve**
   **Incompletes will be given for medical excuses only**
4. Lab reports will be due on Mondays by 10:00 am. Late labs will lose 20 pts/day unless
   excused beforehand.

The Material Safety Data Sheets (MSDS) for any chemical used in this laboratory can be obtained
from Science Technical Services in Sci 241. These sheets contain information on the hazards
associated with the chemical as well as information on its proper handling and storage.
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<td>#1 – CH 3 – CRYSTALLIZATION p. 60 #5 CH 4 – MELTING POINTS p. 71 #4</td>
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<td>FEB 3</td>
<td>#2 – CH 5 – DISTILLATIONS p. 89 #2A, p. 90 #3A</td>
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<td>FEB 10</td>
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<td>APR 7</td>
<td>#5 – CH 9 – THIN-LAYER CHROMATOGRAPHY p.108, pgs. 160-162 #1</td>
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<td>#8 – CH 41 – SYNTHESIS OF ASPIRIN p. 503 microscale CH 40 – HYDROLYSIS: Synthesis of Soap p.496 #6</td>
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<td>APR 28</td>
<td>CHECK OUT-failure to check out of your lab drawer will result in a $20 check out fee being charged to you</td>
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