## Weekly Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Experiment</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Check-In:</strong> Check kits. Review of safety in the Orgo. Lab., Instructions on disposal of chemical waste, Lab. protocols, Maintenance of a laboratory note-book.</td>
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</tbody>
</table>
| 2 and 3 | **I. Melting Point Determination** (Chapter 4, pages 50-57)  
**Determination of Boiling Point via Distillation** (Chapter 5)  
**and via Micro Boiling Point Method** (Chapter 4, pages 57-60) |
| 4    | **II. Isolation of Clove Oil from Cloves** (Chapter 6) |
| 5    | **II (continued) Extraction : Isolation of Eugenol from Clove Oil.**  
Thin Layer Chromatography of Clove Oil and of Eugenol  
(Instructor will cut TLC strips and provide instructions) |
| 6    | **III. Crystallization**  
i. Isolation of Crystalline Acetylsalicylic Acid from Aspirin tablets (Lab Notes)  
ii. Recrystallization of Benzil (Lab Notes, Chapter 3, pages 45-46) |
| 7    | **IV. Preparation of Cyclohexene** (Chapter 19) |
| 8    | **V. Preparation of 1-Bromobutane** (Chapter 16) |
| 9    | **VI. Nucleophilic Substitution Reactions of Alkyl Halides** (Chapter 17) |
| 10   | **VII. Oxidation of Cyclohexanol** (Chapter 22) |
| 11   | **VIII. Grignard Reaction: Preparation of Triphenylmethanol** (Chapter 38) |
| 12   | Complete VIII.  
**IX. Reactions of Triphenylmethanol - Parts 1, 2, and 3** (Chapter 31) |
| 13   | Finish IX.  
(and any other unfinished experiments) |
| 14   | **Check-Out.** Please come at the scheduled start of class.  
No experimental work is permitted on Check-Out Day. |
Safety glasses are required in the laboratory at all times – even if you already wear glasses.

Do not bring food, chewing gum, coats or backpacks into the lab – use the hall lockers.

All experiments are to be done individually – no team experiments.

Course Objectives: Students will learn basic organic lab safety, waste disposal, and techniques, and will learn how to keep an organic laboratory notebook. At the conclusion of this semester students will be prepared to start doing organic research if they so choose.

Assessment: You will need to keep a neat, legible laboratory notebook; a lined 100 page, 9 ¾ x 7 ½ inch composition book is best. Your lab instructor will periodically check your notebook, so it must be up-to-date, and will announce when it will be collected for grading.

75% - lab book (Report: 40%, results, 35%)
15% - unannounced lab quizzes (these will test lab material, not lecture material)
10% - your lab technique (including neatness, skill, attention to detail and safety)
MAKE UP LABORATORY APPROVAL

Name __________________________ Regular Laboratory Date Missed __________________________

Regular Lab Course __________________ Day ___________ Time __________________________

Name of Regular Lab Instructor __________________ Make Up Lab Instructor __________________

Experiment ____________________________________________________________

Make Up Lab Date ___________ Time __________________________

Reason For Lab Make Up
______________________________________________________________________________
______________________________________________________________________________

Get approval from your regular instructor by having him or her sign below before the make-up period. Show this form to the instructor in the laboratory you have selected for the make-up and ask permission to work in the laboratory. **NO UNDERGRADUATE MAY EVER WORK ALONE IN A LABORATORY.** All work must be done within regular hours and under the supervision of an instructor. The instructor of the make-up laboratory must be running the same experiment you missed, and will return this form to your regular lab instructor. **MISSED LABS MUST BE MADE-UP WITHIN A WEEK.**

Signature of regular laboratory instructor __________________

Signature of make-up laboratory instructor __________________

1. Instructor

MAKE UP LABORATORY APPROVAL

Name __________________________ Regular Laboratory Date Missed __________________________

Regular Lab Course __________________ Day ___________ Time __________________________

Name of Regular Lab Instructor __________________ Make up Lab Instructor __________________

Experiment ____________________________________________________________

Make Up Lab Date ___________ Time __________________________

Reason For Make Up
______________________________________________________________________________
______________________________________________________________________________

Get approval from your regular instructor by having him or her sign below before the make-up period. Show this form to the instructor in the laboratory you have selected for the make-up and ask permission to work in the laboratory. **NO UNDERGRADUATE MAY EVER WORK ALONE IN A LABORATORY.** All work must be done within regular hours and under the supervision of an instructor. The instructor of the make-up laboratory must be running the same experiment you missed, and will return this form to your regular lab instructor. **MISSED LABS MUST BE MADE-UP WITHIN A WEEK.**

Signature of regular laboratory instructor __________________

Signature of make-up laboratory instructor __________________

2. Student