

# CH 337 LAB SCHEDULE

## Winter 2006

### Texts

"Organic Laboratory Techniques," 3<sup>rd</sup> edition, Fessenden & Fessenden & Feist (purchase at PSU Bookstore)  
 "Organic Chemistry Laboratory I, CH 337," PSU (purchase at Smart Copy, 1915 SW 6th Ave.)

### Notes

- Experiments begin on the first day of lab. Safety goggles and notebook are needed for the first lab.
- You must read the lab manual and the corresponding FFF references before coming to the lab.
- Lab Report Forms are needed for experiments involving synthesis. Items 1-9 must be completed before coming to the lab (see Lab Manual pp 41-43 for instructions). Lab Report Form can be downloaded from the course website at <http://chem.pdx.edu/~wamserc/Labs/CH337M.html>
- Lab reports are due one week after the experiment is completed.

| PERIOD                                    | EXPERIMENT   | REFERENCES   |
|---|--|--|
| 1 (Jan 9 - 12)                            | Check in.<br>Begin <u>Exp. 1: Melting Points</u> .   | Lab Manual, p 2-4, 5-6, 7-10<br>FFF, p 1-19<br>Lab Manual, p 11-18<br>FFF, p 39-46       |
| 2 (Jan 17 - 19)<br>(Note -<br>no Mon lab) | Complete <u>Exp. 1: Melting Points</u> .<br>Begin <u>Exp. 2: Recrystallization</u> .   | FFF, p 23-36<br>Lab Manual, 19-23<br>Lab Manual, Appendix B, p 55                        |
| 3 (Jan 23 - 26)                           | Complete <u>Exp. 2: Recrystallization</u><br>Begin <u>Exp. 3: Fractional Distillation</u> .  | FFF, p 77-96<br>Lab Manual, p24-31   |
| 4 (Jan 30 - Feb 2)                        | Continue <u>Exp. 3: Fractional Distillation</u> : gas chromatography, refractive index.<br>Begin <u>Exp. 4: Isolation of Eugenol from Cloves</u> . | FFF, p 141-151, 115-118, 107-110<br>Lab Manual, 32-36<br>Lab Manual, Appendix F, p 63-65 |
| 5 (Feb 6 - 9)                             | Complete <u>Exp. 3</u> .<br>Complete <u>Exp. 4</u> .   |  |
| 6 (Feb 13 - 16)                           | Begin <u>Exp. 5: Caffeine from Tea</u> .   | FFF, p 49-54, 58-61, 111-113<br>Lab Manual, p 37-40                                      |
| 7 (Feb 20 - 23)                           | Begin <u>Exp. 6: Cyclohexene from Cyclohexanol</u> .<br>Complete <u>Exp. 5: Caffeine from Tea</u>  | Lab Manual, p 41-43, 47-48<br>Lab Manual, p 44-46  |
| 8 (Feb 27 - Mar 2)                        | Begin <u>Exp. 7: Triphenylmethanol - Grignard Method</u> .   | Lab Manual, p 49-53  |
| 9 (Mar 6 - 9)                             | Complete <u>Exp. 6</u> .<br>Complete <u>Exp. 7</u> .   |  |
| 10 (Mar 13 - 16)                          | Complete all work.<br>Clean up and check out.  |  |
| <b>Final Exam</b>                         | <b>Wed, March 22, 8:00 - 9:50 am, Hoffmann Hall</b><br><b>Hand in your notebook at the final.</b>  |  |