**Chemistry 0345: Organic Chemistry Laboratory**  
**Summer 2018 (Term 2187)**  
**Faculty Coordinator:** Ericka Huston, 107 Chevron, ceder@pitt.edu, 412-624-7158

**Laboratory Activity Documents:** Available on the Chem 0345 CourseWeb. These will need to be printed and/or written into your lab notebook before each laboratory meeting. **Note:** Materials will be provided for Activity 1.

**Goggles:** Required for labs beginning with Activity 2. Available in bookstore. These goggles meet our strict safety standards for the teaching laboratories. No substitutes.

**Making the Connections,** 3rd edition, *Anne B. Padías.*  
**Carbonless Copy Student Notebook:** Top-perforated

**Laboratory Lectures:** Monday and Wednesday 10AM-11AM Chevron 135  
**Laboratory Activities:** Tuesday and Thursday 8AM-12PM Chevron 135 and 4th floor labs

<table>
<thead>
<tr>
<th>Laboratory Activity #</th>
<th>Dates</th>
<th>Laboratory Activity Title</th>
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| 1                     | Mon 5-14 Lecture  
Tues 5-15 Lab | Introduction to Organic Laboratory and Laboratory Safety |
| 2                     | Wed 5-16 Lecture  
Thurs 5-17 Lab | Extraction and Recrystallization of Benzoic Acid |
| 3                     | Mon 5-21 Lecture  
Tues 5-22 Lab | Analysis of Medicinally-Active Organic Compounds in Over-the-Counter Pain Relievers: Introduction to Chromatography |
| 4                     | Wed 5-23 Lecture  
Thurs 5-24 Lab 8AM-11AM  
Thurs 5-24 11AM Lecture Activity 5,11 | Introduction to $^1$H NMR Spectroscopy |
| 5                     | Mon 5-28 Lecture  
Memorial Day No Lecture  
Tues 5-29 Lab | Dehydration of Cyclohexanol |
| 11                    | Wed 5-30 Midterm (1-5)  
Thurs 5-31Lab | Forensic Chemistry: Synthesis and Photophysical Properties of Luminol |
| 10                    | Mon 6-4 Lecture  
Tues 6-5 Lab | Organometallic Reagents in Organic |
| 6                     | Wed 6-6 Lecture  
Thurs 6-7 Lab | Alkene Addition Reactions: Selective Markovnikov Hydrohalogenation of Carvone |
| 9                     | Mon 6-11 Lecture  
Tues 6-12 Lab | Aldol Addition and Aldol Condensation Reactions: Crossed Aldol Reaction of 2-Acetylpyridine and 4-Nitrobenzaldehyde Chemistry |
| 8                     | Wed 6-13 Lecture  
Thurs 6-14 Lab | Electrophilic Aromatic Substitution Reactions: Bromination of Aniline and N-Acetylaniline |
| 12                    | Mon 6-18 Lecture  
Tues 6-19 Lab | Polymer Chemistry: Syntheses and Properties Check-Out and Surveys |
| 13                    | Wed 6-20 Lecture  
Thurs 6-21 Lab | Final Exam Review in Lecture  
Final Exam Administered during lab time in room 135 |