

# Chemistry 0345: Organic Chemistry Laboratory

Course Schedule Fall 2018 (Term 2191)

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**Top Hat Techniques Online Textbook:** Access can be purchased at either the bookstore or at tophat.com.

**Top Hat Classroom:** For use during laboratory lectures. Top Hat Classroom is free for Pitt students.

**CourseWeb:** Will be used for weekly assignments via SafeAssign.

**Carbonless Copy Student Notebook:** Top-perforated. Available in bookstore.

**Goggles and Flame-Resistant Lab Coat:** Must be purchased at bookstore to ensure safety policy compliance.

Laboratory Activity #	Laboratory Activity
1	Introduction to Organic Chemistry Laboratory and Laboratory Safety Introduction to Infrared Spectroscopy
2	Extraction and Recrystallization of Benzoic Acid
3	Analysis of Medicinally-Active Organic Compounds in Over-the-Counter Pain Relievers: An Introduction to Chromatography
4	Introduction to $^1\text{H}$ NMR Spectroscopy
5	Dehydration of Cyclohexanol
6	Unimolecular Substitution ( $\text{S}_{\text{N}}1$ ) Reactions: Competing $\text{S}_{\text{N}}1$ and $\text{E}1$ Reactions
7	Organometallic Reagents in Organic Chemistry
8	Alkene Addition Reactions: Selective Markovnikov Hydrohalogenation of Carvone
9	Electrophilic Aromatic Substitution Reactions: Bromination of Aniline and N-Acetylaniline
10	Aldol Addition and Aldol Condensation Reactions: Crossed Aldol Reaction of 2-Acetylpyridine and 4-Nitrobenzaldehyde
11	Forensic Chemistry: Synthesis and Photophysical Properties of Luminol
12	Polymer Chemistry: Synthesis of Nylon 610
13	Check-Out and Final Exam

*See reverse side for date schedules*

### *Chem 0345 Meeting Times*

<i>Section</i>	<b>Lab Lecture</b>		<b>Laboratory Activity</b>	
	<i>Time</i>	<i>Lecture Room</i>	<i>Time</i>	<i>Lab classroom*</i>
<b>A</b>	Monday 9 – 9:50 a.m.	206 Eberly	Tuesday 1 – 4:50 p.m.	135 Chevron
<b>B</b>	Monday 5 – 5:50 p.m.	206 Eberly	Tuesday 6 – 9:50 p.m.	206 Eberly
<b>C</b>	Monday 10 – 10:50 a.m.	206 Eberly	Wednesday 8 – 11:50 a.m.	206 Eberly
<b>D</b>	Monday 1 – 1:50 p.m.	135 Chevron	Wednesday 1 – 4:50 p.m.	135 Chevron
<b>E</b>	Monday 6 – 6:50 p.m.	206 Eberly	Wednesday 6 – 9:50 p.m.	206 Eberly
<b>F</b>	Tuesday 10 – 10:50 a.m.	206 Eberly	Thursday 8 – 11:50 a.m.	135 Chevron
<b>G</b>	Wednesday 5 – 5:50 p.m.	206 Eberly	Thursday 6 – 9:50 p.m.	206 Eberly
<b>H</b>	Monday 2 – 2:50 p.m.	206 Eberly	Friday 1 – 4:50 p.m.	135 Chevron

\* Some Laboratory Activities will be held in the listed classroom. All experiments will be held in labs on the 4<sup>th</sup> floor of Chevron Science Center.

<b><i>Lab Lecture Schedule</i></b>	
Mondays, Tuesdays & Wednesdays	
<i>Dates</i>	<i>Lecture Topic</i>
Aug 27 – Aug 29	1 & 2*
Sept 3 – Sept 5	<i>Labor Day</i> †
Sept 10 – Sept 12	3
Sept 17 – Sept 19	4
Sept 24 – Sept 26	5 & 6
Oct 1 – Oct 3	Midterm exam
Oct 8 – Oct 10	7
Oct 15 – Oct 17	<i>Fall Break</i> †
Oct 22 – Oct 24	8
Oct 29 – Oct 31	9
Nov 5 – Nov 7	10
Nov 12 – Nov 14	11
Nov 19 – Nov 21	<i>Thanksgiving</i> †
Nov 26 – Nov 28	12
Dec 3 – Dec 5	13

<b><i>Lab Activity Schedule</i></b>	
Tuesdays to Fridays	
<i>Dates</i>	<i>Lab Activity</i>
Aug 28 – Aug 31	1
Sept 4 – Sept 7	2
Sept 11 – Sept 14	3
Sept 18 – Sept 21	4
Sept 25 – Sept 28	5
Oct 2 – Oct 5	6
Oct 9 – Oct 12	7
Oct 16 – Oct 19	<i>Fall Break</i> †
Oct 23 – Oct 26	8
Oct 30 – Nov 2	9
Nov 6 – Nov 9	10
Nov 13 – Nov 16	11
Nov 20 – Nov 23	<i>Thanksgiving</i> †
Nov 27 – Nov 30	12
Dec 4 – Dec 7	13

\* The second lab lecture will be held during part of the Activity 1 lab period.

† The portion of the class (Lecture or Activity) with this mark will have no meetings for the given dates.