

# CH141 Laboratory



## Lab Syllabus

[Error Analysis Handout](#)

[Lab Safety Handout](#)

[Excel Primer](#)

[ACS Citation Guide](#)

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## Schedule and Experiments for Download:

### September 11-15: Experiment 1 – Scientific Measurement

- Pre-lab Assignment
- Experiment 1 Laboratory Handout
- Report Form for Experiment 1

### September 18-22: Experiment 2: Identifying Unknown Substances

- Pre-lab Assignment
- Experiment 2 Laboratory Handout
- Report Form for Experiment 2

### September 25-29: Experiment 3: Precipitation Reactions and Stoichiometry

- Pre-lab Assignment
- Experiment 3 Laboratory Handout
- Report Form for Experiment 3

### October 2-6: Experiment 4: Solution Conductivity

- Pre-lab Assignment
- Experiment 4 Laboratory Handout
- Report Form for Experiment 4

### October 9-13: Experiment 5: Redox Reactions

- Pre-lab Assignment
- Experiment 5 Laboratory Handout
- Report Form for Experiment 5

### October 16-20: No Lab (fall break)

- Enjoy your break!

### October 23-27: Experiment 6: Reaction Calorimetry

- Pre-lab Assignment
- Experiment 6 Laboratory Handout
- Report Form for Experiment 6

### October 30-November 3: Experiment 7: The Ideal Gas Law

- Pre-lab Assignment
- Experiment 7 Laboratory Handout

- [Report Form for Experiment 7](#)

November 6-November 10: Experiment 8: Introduction to Molecular Modeling

- Pre-lab Assignment: Read sections **8.1-8.5** in your textbook (that's all for this week)
- [Experiment 8 Laboratory Handout](#)
- *There is no report due this week*

November 13-November 17: Continue Experiment 8: Introduction to Molecular Modeling

- Pre-lab Assignment: Read sections **8.6-8.8** and **9.1-9.3** in your textbook (that's all for this week)
- *Note: Your Experiment 8 Worksheet is due by 5pm on Monday, Nov. 20th (drop off outside of Keyes 405)*
  - [Blank Worksheet](#)
- [Report Form for Experiment 8](#) – Due on by 5pm on Monday, Nov. 27th (drop off outside of Keyes 405)

November 20-November 24: No Lab (Thanksgiving break)

- Reminder: Your Experiment 8 Worksheet is due by 5pm on Monday, Nov. 20th (drop off outside of Keyes 405)
- Enjoy your break!

November 27-December 1: Experiment 9: Electronic Structure Calculations

- Reminder: Your Experiment 8 Report is due by 5pm on Monday, Nov. 27th (drop off outside of Keyes 405)
- Pre-lab Assignment: Read sections **9.4-9.8** in your textbook (that's all for this week)
- [Experiment 9 Laboratory Handout](#)
- [Report Form for Experiment 9](#)

December 4-December 8: Lab Cleanup

- Please make sure to attend your regular lab section for cleanup and inventory duties
- You will also turn in your Experiment 9 report and your laboratory notebook