

PHYSICAL CHEMISTRY LAB I

CHEM 3615

Fall 2024

Instructor:	Matthew Rowley	Office Hours:	Daily 10:00 am – 11:00 am
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Please include the course number in the subject line of all correspondence.

Tentative Schedule

This class will meet on Tuesdays from 4:00pm – 6:50pm in room 224 of the Science Center (SC)

Week 1: Aug. 28 – Aug. 30

No Lab

Week 2: Sep. 2 – Sep. 6

- Group 1: Adiabatic Expansion of Gases
- Group 2: Measurement of the 2nd Virial Coefficient
- Group 3: Determination of the Caloric Content of Food

Week 3: Sep. 9 – Sep. 13

Continue labs and work on lab reports

Week 4: Sep. 16 – Sep. 20

- Group 1: Determination of the Caloric Content of Food
- Group 2: Adiabatic Expansion of Gases
- Group 3: Measurement of the 2nd Virial Coefficient

Week 5: Sep. 23 – Sep. 27

Continue labs and work on lab reports

Week 6: Sep. 30 – Oct. 4

- Group 1: Measurement of the 2nd Virial Coefficient
- Group 2: Determination of the Caloric Content of Food
- Group 3: Adiabatic Expansion of Gases

Week 7: Oct. 7 – Oct. 11

Continue labs and work on lab reports

Week 8: Oct. 14 – Oct. 18

No Classes this week (Fall Break!)

Week 9: Oct. 21 – Oct. 25

- Group 1: Measurement of Joule-Thompson Coefficients
- Group 2: Computational Study on the Enthalpy of Formation
- Group 3: Kinetics of the Iodination of Acetone

Week 10: Oct. 28 – Nov. 1

Continue labs and work on lab reports

Week 11: Nov. 4 – Nov. 8

- Group 1: Kinetics of the Iodination of Acetone
- Group 2: Measurement of Joule-Thompson Coefficients
- Group 3: Computational Study on the Enthalpy of Formation

Week 12: Nov. 11 – Nov. 15

Continue labs and work on lab reports

Week 13: Nov. 18 – Nov. 22

- Group 1: Computational Study on the Enthalpy of Formation
- Group 2: Kinetics of the Iodination of Acetone
- Group 3: Measurement of Joule-Thompson Coefficients

Week 14: Nov. 25 – Nov. 29

No Classes this week (Thanksgiving Break!)

Week 15: Dec. 2 – Dec. 6

Final Exam

Finals Week

No Final – You took it last week!