

# PHYSICAL CHEMISTRY LAB I

CHEM 3615

Fall 2024

---

<b>Instructor:</b>	Matthew Rowley	<b>Office Hours:</b>	Daily 10:00 am – 11:00 am
<b>Telephone:</b>	(435) 586-7875		
<b>Email:</b>	matthewrowley1@suu.edu	<b>Office:</b>	SC-220

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)

★ Remember the literature report assignment which you should work on *throughout* the semester!

**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!**