

PHYSICAL CHEMISTRY LAB II

CHEM 3625

Spring 2025

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

Please include the course number in the subject line of all correspondence.

Tentative Schedule

This class will meet on Thursdays from 3:30pm – 5:20pm in room 224 of the Science Center (SC)

Week 1: Jan. 8 – Jan. 10

No Lab

Week 2: Jan. 13 – Jan. 17

Group 1: Quantum Dots and Particle in a Box – A Spectroscopic Study

Group 2: Vibrational-Rotational Spectra of HCl/DCl

Week 3: Jan. 20 – Jan. 24

Group 3: Quantum Dots and Particle in a Box – A Spectroscopic Study

Group 4: Vibrational-Rotational Spectra of HCl/DCl

Week 4: Jan. 27 – Jan. 31

Group 1: Vibrational-Rotational Spectra of HCl/DCl

Group 2: Quantum Dots and Particle in a Box – A Spectroscopic Study

Week 5: Feb. 3 – Feb. 7

Group 3: Vibrational-Rotational Spectra of HCl/DCl

Group 4: Quantum Dots and Particle in a Box – A Spectroscopic Study

Week 6: Feb. 10 – Feb. 14

Group 1: Absorption Spectrum of Conjugated Dyes

Group 2: Computational Applications of Quantum Chemistry

Week 7: Feb. 17 – Feb. 21

Group 3: Absorption Spectrum of Conjugated Dyes

Group 4: Computational Applications of Quantum Chemistry

Week 8: Feb. 24 – Feb. 28

Group 1: Computational Applications of Quantum Chemistry

Group 2: Absorption Spectrum of Conjugated Dyes

Week 9: Mar. 3 – Mar. 7

Group 3: Computational Applications of Quantum Chemistry

Group 4: Absorption Spectrum of Conjugated Dyes

Week 10: Mar. 10 – Mar. 14

No lab – Spring Break!

Week 11: Mar. 17 – Mar. 21

Group 1: Photophysics of Pyrene

Group 2: Calculation of π -type Delocalized Orbitals Using Hückle Theory

Week 12: Mar. 24 – Mar. 28

Group 3: Photophysics of Pyrene

Group 4: Calculation of π -type Delocalized Orbitals Using Hückle Theory

Week 13: Mar. 31 – Apr. 4

Group 1: Calculation of π -type Delocalized Orbitals Using Hückle Theory

Group 2: Photophysics of Pyrene

Week 14: Apr. 7 – Apr. 11

Group 3: Calculation of π -type Delocalized Orbitals Using Hückle Theory

Group 4: Photophysics of Pyrene

Week 15: Apr. 14 – Apr. 18

Final Exam

Finals Week

No Final – You took it last week!

But don't forget the literature report!