

FLORIDA INTERNATIONAL UNIVERSITY
CHM 3411L - PHYSICAL CHEMISTRY II LAB (U01)
FALL 2021

Instructor: Jeff Joens
Office: CP 331; phone 348-3121 (voice mail)
Web page: www.joenschem.com

Time: R, F 1:00pm to 3:50pm
Room: remote/CP 375
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Office hours: Monday, Wednesday, Friday 5:00pm to 5:30pm, or by appointment

Course objective: To provide, along with the companion course CHM 3410L, a two semester sequence of laboratory classes illustrating important concepts in physical chemistry.

Prerequisite: CHM 3410L (Physical Chemistry I Lab)
Corequisite: CHM 3411 (Physical Chemistry II)

Text: CHM 3411L Laboratory Manual. Additional information will be posted on my website.

Grading: Your grade will be based on the average of the lab reports for the experiments you will complete during the semester.

Notes:

1) You are expected to purchase a bound notebook for recording experimental data, and to record all such data directly into your notebook. Notebooks will be reviewed periodically. This will make up a portion of your grade on the laboratory experiments.

2) Late assignments will be penalized up to one letter grade per week or fraction of a week late. It is therefore important to turn in your work in a timely manner. You must turn in all of the lab reports to pass the class.

3) Excused absences from the laboratory experiments will be by permission of the instructor only. If you are forced to miss a laboratory experiment, you are expected to notify me in a timely manner.

4) While you will work on the experiments in groups, you are expected to write individual lab reports for each experiment. Plagiarism and other forms of cheating are violations of University policy and will be punished. For further information please refer to the University Code of Academic Conduct.

5) You are expected to retain all graded assignments for your records until after final course grades have been given.

6) As per University policy, a grade of incomplete will only be given "...for work not completed because of serious interruption not caused by the student's own negligence." An incomplete will only be given after consultation with me and a written agreement outlining the reason for the incomplete and a timetable for making up the missing work.

Course Outline (Tentative)

September 3 -	Class introduction
September 9 -	Safety, lab reports, discussion of the first three experiments.
September 16 - October 8	Enthalpy Of Sublimation For Argon Bromination Of Acetone Polyvinyl Alcohol Polymers
October 14	Discussion of second experiments
October 21 - October 22	Diatomic molecules
October 28	Discussion of last three experiments
November 4 - November 19	Absorption spectrum of conjugated dyes Vibrational-Rotational Spectrum of HCl Absorption spectrum of Iodine Vapor