

FLORIDA INTERNATIONAL UNIVERSITY
CHM 3400L - FUNDAMENTALS OF PHYSICAL CHEMISTRY LAB
FALL 2022

Supervisor – Jeff Joens (joensj@fiu.edu)
M 7:00pm to 9:50pm U01
T 2:00pm to 4:50pm U02
R 7:00pm to 9:50pm U03

TA – Lotefa Tuli
Lab OE-314

Office hours: TBA

web page: www.joenschem.com

Your TA will also have office hours and provide their information

Course objective: To provide representative experiments illustrating important concepts in physical chemistry from the CHM 3400 lecture material.

Prerequisite/Corequisite: CHM 3400 (Fundamentals of Physical Chemistry)

Text: Fundamentals of Physical Chemistry Laboratory Manual (Joens).

Grading: Your grade will be based on the average of the four experiments you will complete during the semester, along with the error analysis homework.

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 one letter grade per week or fraction of a week late. It is therefore important to turn in your work in a timely manner.

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) Cheating or assisting other students in cheating is a violation 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.

Disability Resource Center provides assistance for students with a disability. I will make accommodations for students with a disability as needed under the advisement of the Disability Resource Center located in GC-190. (305-348-3532). Their website is: <https://studentaffairs.fiu.edu/get-support/disability-resource-center/>

Academic misconduct: *Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook. **Cheating is unfair to your honest classmates and absolutely will not be tolerated.** The first such infraction will be dealt with to the fullest extent permissible by the University. Cheating includes (but is not limited to) any form of inter-student collaboration on exams, use of prohibited materials or devices during exams, copying or distribution of quiz or exam answers prior to or during the exams, and plagiarism. For more information go to: https://ugrad.fiu.edu/academic_misconduct/Pages/Home.aspx*

Tentative schedule

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| Error analysis and lab reports (discussion) | Tuesday September 6 Thursday September 8 Monday September 12 |
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Experiments

Bomb calorimetry
Enthalpy of vaporization of water
Mutarotation of glucose reaction
Bromination of acetone reaction

Assignment of lab partners, dates for the experimental work, and due dates for lab reports and homework assignments will be announced.