

Chem 4010/6010 Lab Dr. Ahuja-Spring 2019

Instructor: Dr. Tarushee Ahuja
Email: tahuja1@gsu.edu
Office: 203 Courtland North
Phone: 404-413-6003
Office Hours: Thursday 11-12 noon.
(Please email for an appointment)
Lab Time: Tuesdays 9.00am-12.15pm
Text: GSU Chem4010/6010 lab manual (provided)

Laboratory Policies:

Students will be provided with state-approved safety glasses at check-in as part of the lab fee to be used on the first day of lab. A laboratory manual will be provided during the first prelab lecture.

(Students who fail to attend the first laboratory session may LOSE THEIR SPACE IN LAB. If lab space is lost, the student will have to WITHDRAW FROM THE COURSE (i.e both lab and lecture).

Class Attendance:

Students are expected to attend all laboratory sessions. There is no allowance for an exemption from any chemistry experiment.

Make-up Labs:

Permission to make-up a missed lab will be granted for EXCUSED absences only. Students must send email to your lab instructor immediately when missed lab happened in order to arrange a substitution lab. Students must make-up a lab till Monday within the week. Written permission form from your lab instructor is required to make-up a missed lab. Students must notify the instructor who is going to give the make-up lab before taking the missed lab.

Laboratory Reports:

Four formal laboratory reports will be required throughout the semester. Criteria used in grading the Lab Reports are: (1) your understanding of the experiment as judged by your comments and answers to questions, (2) the quality of your data, (3) the completeness and accuracy of your data analysis (including error analysis), (4) the report's clarity, organization, and quality of presentation. Lab report format should follow ACS guidelines.

Formal laboratory reports are 100 points each and must be turned in on the due dates (see the Lab Schedule). After grading, the Lab Report #1 will be returned to the students with the instructor's comments and suggestions. Students will be allowed to revise, re-write, and re-submit the said paper within one week. The re-written paper should be submitted

Chem 4010/6010 Lab Dr. Ahuja-Spring 2019

together with earlier submitted version. Lab Reports #2-4 can be submitted only once; without an option to re-submit.

Students are required to write each paper independently, analyzing their own data and discussing accordingly. IT IS NOT PERMITTED TO USE OTHER PEOPLE'S DATA/DISCUSSION IN THE PAPER WITHOUT A REFERENCE. If this happens, it will be considered as plagiarism, and zero score will be given.

Lab Course Grading:

The maximum grade for this laboratory course is 500 points: 4×100pts = 400pts for the formal lab reports, 100 pts for the notebook.

Late Assignments:

Late assignments will be penalized 2 points for each day and 10 points per week.

Chemistry Departments Student Integrity Policy:

The Department of Chemistry follows the University policy on academic honesty published in the "Faculty Affairs Handbook" and the "On Campus: The Undergraduate Co-Curricular Affairs Handbook". All tests taken must represent the student's individual, unaided effort. To receive or offer information during any examination will be considered cheating. Any suspected offense may be referred to the Department's Chairman for appropriate action. Class will never be cancelled unless an official from the Chemistry Department gives the class personal notification. Don't assume a note to be enough without checking the Department's office. The University requires that faculty members must, on a date after the mid-point of the course to be set by the Provost (or his designee)

1. Give a WF to all students who are on their rolls but are no longer taking the class and
2. Report the last day the student attended or turned in an assignment.

Students who are withdrawn may petition the Departmental Chair for reinstatement into their classes.

Chem 4010/6010 Lab Dr. Ahuja-Spring 2019

Tentative Schedule Spring 2019

Lab	Experiment	Name of experiment
1	GC-Experiment 1	Injection Technique
2	GC Experiment 2	Qualitative
3	GC Experiment 3	Quantitative
4	GC Experiment 4	HETP (Formal report #1 due)
5	GC Experiment 5	Kovat's
6	GC Experiment 6	Temperature Program (Formal report #1 resubmission)
7	GC Experiment 7	Enthalpy
8	GC Experiment 8	Retention order and selectivity for compound with similar BP
9	TLC	Thin-Layer Chromatography (Formal report #2 due)
10	HPLC1 Group A	Commercial Samples
10	HPLC 1 Group B	Commercial Samples (Formal report #3 due)
11	HPLC 2 Group A	Gradient Separation (Notebook due)
11	HPLC 2 Group B	Gradient Separation (Notebook due)
12	-	Formal report #4

** HPLC exercises need to be scheduled for smaller groups. Accordingly, the lab section will be divided into two groups (Group A and Group B). Sign-up sheets for the HPLC labs will be provided on the 10th lab session. Each subgroup will meet on a week on/week off schedule.