

# Chem 4190/6190 Lab Summer 2016

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**Instructor:** Dr. Tarushee Ahuja  
**Email:** [tahuja1@gsu.edu](mailto:tahuja1@gsu.edu)  
**Office:** 208 Courtland North  
**Phone:** 404-413-6003  
**Office Hours:** Tuesdays and Thursdays 1.30pm-3:00pm  
(Please email for an appointment)  
**Lab Time:** Tuesdays and Thursdays 3:00pm -6.30pm  
**Location:** Room 698 Kell Hall  
A pre-lab lecture will begin promptly at 3:00pm.

**Text:** GSU Lab manual (will be handed out at first lab lecture). A course outline, schedule of activities, grading, etc., is included in the lab manual.  
Principles of Instrumental Analysis, Sixth Edition, 2007  
Authors: Skoog, Holler and Crouch  
Publisher: Harcourt Brace Javonovich College Publisher

**Withdrawal date:** July 1<sup>st</sup> 2016

## **Class Attendance:**

Students are expected to attend all laboratory sessions. There is no allowance for an exemption from any chemistry experiment. You will be not allowed to do the experiment if you miss pre lab lecture.

## **Laboratory Notebooks:**

A bound (stitched, not spiral) notebook is required and must be used for recording data and observations in all laboratory sessions. All data taken by your group must be included in your notebook. If a sample was prepared by another member of your group, you may simply state the fact in your notebook. Include copies in your notebook of all spectra presented, discussed, or reported as data in your formal laboratory reports. You must submit the laboratory notebook along with your final laboratory report. In addition, when you turn in any laboratory report, the corresponding section of your notebook must be complete and up to date. (Instructors may spot check your notebook, and any omissions (e.g., spectra) in the notebook may result in a lower grade on the submitted report. Graded notebooks can be picked up within one week after final semester grades are due at the registrar's office outside of the instructor's office. After that time they may be discarded.)

## **Safety Glasses:**

State law requires that you wear regular glasses or safety glasses at all times in any laboratory. Contact lenses are not safe and should not be worn. However, you can fill out a waiver of your right to sue Georgia State University and then wear them with safety glasses at your own risk.

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**Safety Requirement:** Safety glass or goggles must be worn at all times inside the lab. Dress appropriately: no open-toe shoes (flip-flops, sandals, crocks, etc.); no very short shorts/skirts. No food, drink, gum, etc. inside the lab.

## Grading/Requirements:

Lab reports, lab preparation, and notebook	30%
Lecture Quizzes	50%
Final exam	20%

## Laboratory report requirements:

- Three (3) lab reports are required for all students, covering UV-visible, fluorescence, and FT-NMR experiments.
- For students enrolled in CHEM 4190, each report (Uv-Vis, fluorescence and FT-NMR spectroscopy) will be worth 10% of the total grade for the course. The FT-IR report is optional. If a student chooses to submit four papers instead of three, the best three scores are counted in the final lab grade.
- For students enrolled in CHEM 6190, besides the above three reports, the fourth report about the work with FT-IR instrumentation is also required. Each report will be worth 7.5% of the total grade for the course.
- Students are working in groups, but are required to analyze the data and write each paper independently. IT IS NOT PERMITTED TO USE OTHER PEOPLE'S DATA/DISCUSSION IN THE PAPER WITHOUT MENTION. If that happens, it will be considered cheating and zero score will be given on this paper.
- A past-due penalty will be given, 5 pts off for each past-due day.

## 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)

- Give a WF to all students who are on their rolls but are no longer taking the class and
- 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.

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## Tentative Schedule

Date	Lab Session	SCHEDULE
6/7/2016	Lab 1	Check In
6/9/2016	Lab 2	UV-vis Part A
6/14/2016	Lab 3	UV-vis Part A
6/16/2016	Lab 4	UV-vis Part B
6/21/2016	Lab 5	UV-vis Part B
6/23/2016	Lab 6	Catch up
6/28/2016	Lab 7 (Report #1)	Fluorescence Or NMR
6/30/2016	Lab 8	Fluorescence Or NMR
7/5/2016	Lab 9	Catch up
7/7/2016	Lab 10(Report #2)	Fluorescence Or NMR
7/12/2016	Lab 11	Fluorescence Or NMR
7/14/2016	Lab 12	IR
7/19/2016	Lab 13(Report #3)	Catch up
7/21/2016	Lab 14 (Report #4)	Check out

- Each Group contains 3-4 students.
- The IR report is due no later than the final exam.