

## CHEM 4190/6190 Lab Syllabus (Spring 2020)

**Instructor:** Dr. Warren Brown

**Office address:** Langdale Hall 833

**Email:** wbrown15@gsu.edu

**Tel.:** 404-413-5594

**Office Hours:** ~~Wed 2:00–3:00 PM; by appointment only.~~ Email only

**Laboratory Times and Location:** Wednesday: 9:00 AM – 12:15 PM, ~~Science Annex 562~~  
iCollege/email or other online method.

**Text:** Laboratory Manual for Chem. 4190/6190 (distributed on the first lab meeting)

### Laboratory Attendance:

Due to the measures announced by both Georgia State University and government authorities to limit the spread of SARS-CoV-2, all sessions will be online for the remainder of the semester. In place of conducting experiments in the lab I will be providing the data for the remaining labs and instructions on how to analyze the data. I will provide these through email and iCollege. During the time period and date of your lab sessions, I am fully available for any questions you may have that are relevant to this course. It is not lost on me the unprecedented nature of having to try to conduct a lab class suddenly in the middle of a semester through an online format. I am therefore open to other methods of communication with you, such as video conferencing individually or as a class if requested.

### Submission of Assignments

All assignments are to be submitted through email or on iCollege.

### Grading/Requirements:

- Grading: Lab reports, lab preparation, ~~and notebook~~ Your lab notebook will be replaced by lab exercises which will be uploaded to iCollege. 30%

Lecture Quizzes 50%

Final exam 20%

- Laboratory report requirements:

1. Three (3) lab reports are required for *all* students, covering UV-visible, fluorescence, and FT-NMR experiments. No re-submission for any report.
2. **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.
3. **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.
4. 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.**

#### **5. Late Assignments:**

Notebook reports are due at the end of the lab session on the due date. Lab reports are due within the first 10 minutes of the lab session on the due date. Late assignments will be penalized 5% of the total points available. If late for a day 20 %. Reports will not be accepted if late for more than 2 days.

#### **6. Lab report due dates: Paper #1: 02/26; Paper #2: 04/12; Paper #3 04/19; Paper #4 04/26.**

7. Reports have to be pre-checked by Grammary with minimum 95pts. A summary page from Grammary has to be submitted with report.

#### **8. Grade Disputes**

The grades for all assignments are final, except in the cases of obvious errors (e.g., mathematical errors such as the addition of points). I will not discuss graded assignments during the laboratory session. Students who have legitimate concerns about how their assignment was graded will need to carry out the following steps:

- a. Send an email to schedule an appointment to discuss the graded assignment. This must be done even if the student is planning to come in during office hours.
- b. In the email, the student should outline the reasons why they think their assignment was not graded correctly.
- c. Once I have agreed to the meeting, the student must bring the graded assignment and be on time for the scheduled meeting.

Students have a week from the time they receive the graded assignment to initiate the above procedure. Graded assignments will not be discussed after more than a week has passed. Students can discuss during the scheduled appointment, where points were lost on the graded assignment. Students are not allowed to argue for changes in how many points an instructor deems is appropriate for a specific area of the assignment or how many points the instructor deems a student should lose for an incomplete or incorrect response. For example, if the introduction section of a lab report is graded out of 20, the student cannot request the instructor change that to some other number or request that the instructor only remove 5 points for an incomplete or incorrect answer. Please see the *Student Code of Conduct 2019-2020* for procedures for grade disputes at Georgia State University.

#### **9. Interactions between Students and the Instructor**

Students are to address me as Dr. Brown during in-person interactions or written communications such as emails. Students are to maintain professional and respectful behavior during lab sessions, office hours, and scheduled meetings with the instructor. Students should not use offensive language and/or display

aggressive behavior (such as shouting) towards the instructor during interactions. I will not have discussions with or interact with students during the use of offensive language and/or during the display of aggressive behavior. The student will have to cease this behavior for me to communicate with them. In addition, if a student displays behavior as described above or as outlined in the *Student Code of Conduct 2019-2020* under 'Disruptive Student Conduct in the Classroom or Other Learning Environment,' the student will be given a verbal warning that the behavior is disruptive. If this behavior persists, I will initiate the process for the withdrawal of the student from the course as outlined in the *Student Code of Conduct 2019-2020*. Students should also display professional and respectful behavior towards teaching assistants, the lab coordinator, and other students.

**Chemistry Department 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 and quizzes taken and reports submitted must represent the student's individual unaided effort. To receive or offer information during an examination will be considered cheating. Any suspected offenses may be referred to the Department Chair for appropriate action. Classes will never be canceled unless an official from the Chemistry Department gives the class personal notification. Don't assume a note to be enough without checking with the Department office (404-413-5500).

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 those students who are on their rolls but no longer taking the class
2. Report the last day the student attended or turned in an assignment.

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

## Laboratory Schedule

Week No.	Date		Experiment	Report Due
1	01/15	Check In,		
2	01/22	UV-vis Part A	Energy Scan	
3	01/29	UV-vis Part A	Ethylbenzene	
4	02/05	UV-vis Part B	HQS Dilution	
5	02/12	UV-vis Part B	HQS-Mg Binding	
6	02/19	Catch up	Data Fitting	
<b><u>7</u></b>	02/26	Fluorescence	Water Peak	<b><u>[Report #1]</u></b>
8	03/04	Fluorescence	8-QBA-Fructose	
9	03/11	Catch up		
<b><u>10</u></b>	<b>04/01</b>	NMR	1H-NMR (online)	<b><u>[Report #2]</u></b> <b><u>Due April 12</u></b>
11	<b>04/08</b>	NMR	Thermo-NMR (Online)	
12	<b>04/15</b>	Catch up		
<b><u>13</u></b>	<b>04/22</b>	IR	Polystyrene/HCl (Online)	<b><u>[Report #3]</u></b> <b><u>Due April 19</u></b>
<b><u>15</u></b>	<b>04/29</b>	Check out		<b><u>[Report #4]*</u></b> <b><u>April 26</u></b>

1) The first week will be “check-in” (01/15/2020). The laboratory instructor may want to give instruction on the Uv-Vis instruments.

2) \* Graduate students only.