

Instructor: Dr. Jessica Siemer

Email: jsiemer1@gsu.edu

Office Hours: W 11:00-12:00 PM, T/R 1:00-2:00 PM

(<https://gsu meetings.webex.com/meet/jsiemer1>)

or by appointment (Webex or in person)

Co/pre-requisite: 1151K

Class time: Prelab Lecture, W 8:00-8:45 AM, NSC 218

Laboratory, W 8:55-10:30 AM, NSC 346-8

Required Materials:

Bound lab notebook

Laboratory manual (provided at first lab session)

Safety glasses/goggles (available for purchase during the first lab session)

Scientific calculator (cellphones are not permissible calculators)

Learning Outcomes: Students apply scientific reasoning and methods of inquiry to explain natural phenomena and analyze quantitative information and solve applied problems. Students also develop skills within the following College to Career competencies:



Your constructive assessment of this course plays an indispensable role in shaping education at Georgia State. Upon completing the course, please take the time to fill out the online course evaluation.

Course policies:

Academic Honesty: 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 graded assessments must represent the student's individual, unaided effort. To receive or offer information (including Facebook/GroupMe groups) during any assessment will be considered cheating. Any suspected offense may be referred to the Dean of Students for appropriate action. The consequences of cheating are severe and potentially long-lasting: don't do it!

The selling, sharing, publishing, presenting, or distributing of instructor-prepared course lecture notes, videos, audio recordings, or any other instructor-produced materials from any course for any commercial purpose is strictly prohibited unless explicit written permission is granted in advance by the course instructor. This

includes posting any materials on websites such as Chegg, Course Hero, OneClass, Stuvia, StuDocu and other similar sites. Unauthorized sale or commercial distribution of such material is a violation of the instructor's intellectual property and the privacy rights of students attending the class and is prohibited.

Accommodations: Students who wish to request accommodation for a disability may do so by registering with the Access and Accommodation Center. Students may only be accommodated upon issuance by the Access and Accommodation Center of a signed **Accommodation Plan** and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought.

Attendance: Lab starts during the second week of the semester. 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). If you miss the first three or more labs you will be dropped from the lab.

Per department policy, there are no laboratory make-ups. If a laboratory session is missed due to an excused absence the missed points will be reallocated to other assignments.

Students wishing to obtain an excused absence and subsequent accommodation should communicate with the instructor in a timely manner. Students are highly encouraged to use the Dean of Student's [Professor Absence Notification form](#), which allows students to provide documentation and send notification of an excused absence to multiple professors through the Dean of Students Office.

COVID-19 Specific Policies:

Everyone is highly encouraged to wear a mask or face covering while inside the prelab lecture room and the lab. Georgia State University continues to work closely with the Georgia Department of Public Health to prioritize the health and safety of our campus communities. The Centers for Disease Control and Prevention recommends that everyone — whether vaccinated or not — wear face coverings while on our campuses.

Should a student test COVID positive, any accommodations to the class attendance policy will be informed by evolving guidance from the CDC on quarantine. In most cases there will be no major change to mode of course delivery, so students will be responsible for collecting notes for missed in-person classes and making up any work they miss during quarantine. Anyone who has a positive COVID test is encouraged to alert the university so that appropriate contact tracing can be conducted.

Students must maintain the same seating arrangement throughout the entire semester.

Campus Carry: The Campus Carry legislation allows anyone properly licensed in the state of Georgia to carry a handgun in a concealed manner on university property with noted exceptions. It is the responsibility of the license holder to know

the law. Failure to do so may result in a misdemeanor charge and may violate the Georgia State Student Code of Conduct.

Grading: Grades will be posted weekly on iCollege.

Prelab Summary	20 points
Questions and Calculations Sheets	110 points
Data Sheets	10 points
Final Exam	60 points
Total	200 points

Letter grade	Range%	Letter grade	Range%
A+	97+	C+	77+
A	93+	C	73+
A-	90+	C-	70+
B+	87+	D	60+
B	83+	F	< 60
B-	80+		

Lab rules:

- 1) Students are expected to know and abide by the [Chemistry Laboratory Safety Guidelines](#) and the guidelines set forth in the lab manual.
- 2) The experiments in the lab are performed by teams of 2 students. However, all assignments will be submitted individually. Assignments include notebooks, data sheets, question sheets, quizzes, and exams.
- 3) Notebooks should be kept up to date and laboratory notes and data should be written in ink.
- 4) Data should be entered into both the notebook and the data sheet of each experiment.
- 5) Notebooks must be signed by a TA or instructor at the beginning and conclusion of each lab session.
- 6) Cleaning up is part of the lab session. Students should stop working and begin cleaning up their work area no later than 20 minutes before the conclusion of the lab session. TAs will be checking every student's work station and **points will be deducted for not cleaning up.**
- 7) Students must exit the lab by 10:30 AM.

Laboratory Schedule:

The course syllabus provides a general plan for the course; deviations may be necessary.

Assignments:

- 1) A procedure write-up should be completed in your notebook prior to coming to prelab lecture. Please have it signed by your TA at the beginning of prelab lecture.
- 2) A data sheet is due at the end of each experiment and must be turned in before leaving the lab.
- 3) The Questions and Calculations sheet is due in prelab lecture the week after the experiment is completed. Both sheets can be found in the lab manual at the end of each procedure.

Late homework and lab report submission without preapproval will not be accepted.

Week of	Activity
Aug. 30	Introduction, check-in
Sep. 6	Experiment 1: Measurement, Significant Figures, and Density
Sep. 13	Experiment 3: Preparation and Dilution of Solutions
Sep. 20	Experiment 4: Introduction to Spectrophotometric Analysis
Sep. 27	Experiment 5: Determination of Iron (II) Concentration
Oct. 4	Experiment 6: Colorimetric Analysis of Crystal Violet by Cellphones
Oct. 11	Experiment 7: Model Building- Lewis Structures and Molecular Shapes <i>Semester midpoint; last day to withdraw from class with a 'W'</i>
Oct. 18	Experiment 8-part 1: Qualitative Analysis- Test for known Cations and Anions
Oct. 25	Experiment 8-part 2: Qualitative Analysis- Test for unknown Cations and Anions
Nov. 1	Experiment 9: Chemical Equilibrium
Nov. 8	Experiment 10: Determination of Acetic Acid Concentration in Vinegar
Nov. 15	No lab meeting
Nov. 22	Thanksgiving Break
Nov. 29	Final Exam. Notebook Due. Checkout