

Chemistry 2100 Syllabus Fall 2020

Organic Chemistry Lab I

Instructor: Dr. Suazette Mooring

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Class Meeting Time: Friday 11 am – 12 noon via Webex this is not mandatory but encouraged

Office Hours Via WebEx by appointment

This course is fully online

Please allow 24 hours for a response via email Monday through Friday, emails on the weekend will not be checked until Monday. Any email concerning technology issues needs to be accompanied with a help ticket from the appropriate source (iCollege or labflow).

Please send emails with your GSU email and put the course title in the subject line.

Course Description

This is a first semester organic chemistry lab which will introduce the student to techniques and instruments commonly used in an organic chemistry lab. The bulk of this course will be administered through Labflow in which you will watch videos of labs and concepts and then answer follow up questions. You will receive instruction on iCollege on how to set up your Labflow account **at no cost to you.**

Course Outcomes

At the conclusion of this course you able to:

- Describe basic organic lab techniques, such as liquid-liquid extraction, distillation
- Interpret IR spectrum to identify the functional groups present in a molecule
- Describe analytical techniques used to identify an unknown compound
- Analyze experimental data

Text and Materials

Textbook : Organic Chemistry Lab Techniques by Lisa Nichols **free download**

<https://organiclabtechniques.weebly.com/download.html>

You will need a device capable of using the Respondus Lockdown Browser and the Respondus Monitor. **If you do not have a device you can obtain one here:**

<https://cetl.gsu.edu/resources/resources-for-learning-remotely/internet-options/>

A spreadsheet program capable of graphing Microsoft excel is recommended.

It can be downloaded through the Microsoft Office Suite free of charge here:

<https://technology.gsu.edu/technology-services/it-services/software-computer-purchase/software-download-and-purchase/>

Grading

You will complete 13 quizzes via Labflow each valued at 5 points, the lowest one will be dropped. You will have 12 reports due on Labflow valued at 20 points each. You will have homework that is worth 20 points. You will have a final exam that is worth 80 points.

12 highest quizzes = 60 points

12 reports = 220 points

Homework = 20 points

Final Exam = 80 points

Total points = 400 points

Divide your total points by 4 to get your percent grade.

A+: 97% **A:** 93%; **A-:** 90%; **B+:** 87% **B:** 83% **B-:** 80%, **C+:** 77% **C:** 73% **C-:** 70% **D:** 60% **F:**<60%

Course Overview

This course will be administered through Labflow and you will be responsible for completing one lab module every week for the first 13 weeks. You will have 24 hours to complete each lab module. **The modules will open on every Friday at 8 AM close on Saturday at 8 AM.**

Information about Labflow will be posted on iCollege.

It is anticipated that you will complete the lab during the scheduled lab time. I will be most available during the lab hours to answer any questions you may have. I will have a Webex session every Friday from 11-12 noon to give you a mini-lecture and/or to answer questions about that week's lab. All assignments will be graded within one week of them being turned in.

Make up Policy

You will be given 12 hours to complete each lab module and you are expected to finish the module in that time. It is very important that you do the experiments promptly and not wait until the last moment. Make ups are by the discretion of the instructor on a case-by-case basis such as illness etc. It is important that you communicate with the instructor in a timely manner if any challenges arise.

Below is a tentative schedule for the course. Changes may be necessary and will be announced in iCollege.

Week	Dates		Suggested Readings/Supplements
1	28-Aug	Safety (Quiz Only)	
2	4-Sep	MP of Comps and mixtures	6.0 Melting Points (p. 309-323)
3	11-Sep	Recrystallization	
4	18-Sep	Separation of Benzoic Acid	
5	25-Sep	Extraction of Caffeine	
6	2-Oct	Synthesis of Ester	

7	9-Oct	Separation by Simple Distillation	
8	16-Oct	Separation by Fractional Distillation	
9	23-Oct	Aldehyde and Ketones	
10	30-Oct	Classification of Alcohols	
11	6-Nov	Identification of a Halide	
12	13-Nov	IR Identification	Virtual Reality Lab on Infrared Spectroscopy: https://player.wondavr.com/p/ea3749d3-5b56-4229-9191-986158a3c47c#01_Welcome_Video_041618
13	20-Nov	SN2 Reaction of Neerolin	
14	4-Dec	Final Exam	

This schedule is tentative, and deviations may be necessary.

Regrades

If you wish to request a regrade you must request it within one week of the assignment being graded.

DEPARTMENT OF CHEMISTRY POLICY STATEMENT REGARDING STUDENT INTEGRITY:

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." Any suspected offenses may be referred to the Department Chair for appropriate action.

All tests taken must represent your individual, unaided efforts. To receive or offer information during an examination is cheating. The use of unauthorized supplementary materials during tests is also cheating. All laboratory work performed during this course must reflect your individual effort. Only original data obtained by your own laboratory experimentation are to be used, except when specifically authorized by your laboratory professor. Data from supplementary sources (handbooks, reference literature, etc.) must be clearly referenced (title, author, volume, page(s), etc.). Falsification or destruction of data constitutes cheating.

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

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

FERPA

In keeping with USG and university policy, this course website will make every effort to maintain the privacy and accuracy of your personal information. Specifically, unless otherwise noted, it will not actively share personal information gathered from the site with anyone except university employees whose responsibilities require access to said records. However, some information collected from the site may be subject to the Georgia Open Records Act. This means that while we do not actively share information, in some cases we may be compelled by law to release information gathered from the site. Also, the site will be managed in compliance with the Family Educational Rights and Privacy Act (FERPA), which prohibits the release of education records without student permission.

Special Needs

Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services 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. Students with special needs should then make an appointment with me during the first week of class to discuss any accommodations that need to be made.