Chemistry 2100 Syllabus Spring 2021

Organic Chemistry Lab I
Instructor: Dr. Jeremiah Harden jharden@gsu.edu
Class Meeting Time:
Synchronous Meeting Times: Thursday 4:00 PM – 5:00 PM & Wednesday 10:00 – 11:00 AM
Via WebEx for additional individual office hours see iCollege for times

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 will be familiar with basic organic lab techniques, such as liquid-liquid extraction, distillation, and recrystallization. You will also be familiar with IR spectroscopy and will be able to interpret an IR spectrum.

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

12 highest quizzes x 5 points (60 points) + 11 reports x 20 points (220 points) + Homework (20points) + Final Exam (80 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 1 lab modules every week. The reading and preparation material for the modules will always be available to you so you can plan as far ahead as you like. The lab reports for each module will only be available for 12 hours. The reports will open on at 8 AM close at 8 PM on the Monday of their respective week. Be aware that I will most likely not respond to emails on the weekend so if you would like to ask questions about a lab it is best to start the reading before Friday. Each module will take several hours to complete, so read plan ahead. This lab normally meets for 5 hours every Monday, so plan on spending about that much time on this course.

I will upload supplemental pre-lab lectures to iCollege and I will hold open office hours on Mondays from 12:30 - 1:45 PM to answer any question you have about the lab report.

Make up Policy

There is no lab make ups, you are 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.

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

SUN	MON	TUES	WED	THUR	FRI	SAT
10-Jan	*11-Jan*	*12-Jan*	*13-Jan*	*14-Jan* Lab Safety Quiz Open 3 PM Excel Plotting Report Open Thurs.–Sun.	*15-Jan* Quiz Closes 3 PM	*16-Jan*
17-Jan	*18-Jan*	*19-Jan*	*20-Jan*	*21-Jan* Melting Point Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*22-Jan* Melting Point Report Closes 4 PM	*23-Jan*
24-Jan	*25-Jan*	*26-Jan*	*27-Jan*	*28-Jan* Recrystallization Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*29-Jan* Recrystallization Report Closes 4 PM	*30-Jan*
31-Jan	*1-Feb*	*2-Feb*	*3-Feb*	*4-Feb* Separation Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*5-Feb* Separation Report Closes 4 PM	*6-Feb*
7-Feb	*8-Feb*	*9-Feb*	*10-Feb*	*11-Feb* Extraction Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*12-Feb* Extraction Report Closes 4 PM	*13-Feb*
14-Feb	*15-Feb*	*16-Feb*	*17-Feb*	*18-Feb* Esters Quiz Open Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*19-Feb* Esters Report Closes 4 PM	*20-Feb*
21-Feb	*22-Feb*	*23-Feb*	*24-Feb*	*25-Feb* Simple Distillation Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*26-Feb* Simple Dist. Report Closes 4 PM	*27-Feb*
28-Feb	*1-Mar*	*2-Mar*	*3-Mar*	*4-Mar* Frac. Distillation Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*5-Mar* Frac. Dist. Report Closes 4 PM	*6-Mar*
7-Mar	*8-Mar*	*9-Mar*	*10-Mar*	*11-Mar* Aldehydes and Ketones Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*12-Mar* Ald. And Ket. Report Closes 4 PM	*13-Mar*
14-Mar	*15-Mar*	*16-Mar*	*17-Mar*	*18-Mar*	*19-Mar*	*20-Mar*
Spring Break						
21-Mar	*22-Mar*	*23-Mar*	*24-Mar*	*25-Mar* Alcohol Quiz Open Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*26-Mar* Alcohol Report Closes 4 PM	*27-Mar*
28-Mar	*29-Mar*	*30-Mar*	*31-Mar*	*1-Apr* IR Identification Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*2-Apr* IR ID Report Closes 4 PM	*3-Apr*
4-Apr	*5-Apr*	*6-Apr*	*7-Apr*	*8-Apr* Dehydration of Alcohol Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*9-Apr* Dehydration Report Closes 4 PM	*10-Apr*
11-Apr	*12-Apr*	*13-Apr*	*14-Apr*	*15-Apr* SN2 Nerolin Quiz Open 3-4 PM Prelab 10 AM, Report Opens 4 PM	*16-Apr* SN2 Nerolin Report Closes 4 PMT	*17-Apr*
18-Apr	*19-Apr*	*20-Apr*	*21-Apr*	*22-Apr* **Final Exam Opens 9 AM**	*23-Apr* **Final Exam Closes 12 PM**	*24-Apr*
25-Apr	*26-Apr*	*27-Apr*	*28-Apr*	*29-Apr*	*30-Apr*	*1-May*

This schedule is tentative, and deviations may be necessary.

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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.