

Chemistry 2100 Syllabus Spring 2021

Organic Chemistry Lab I

Instructor: David Connors dconnors@gsu.edu

Class Meeting Time: Pre lab lecture Thursday 10:00-10:30 AM via Webex

Office Hours Thursday 12:45 PM- 1:45 PM Via WebEx for additional 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.

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

Course Overview

This course will be administered through Labflow and you will be responsible for completing a lab modules every week for the first 13 weeks. The modules have two parts, a prelab quiz that is only open from 9:00 AM – 10:00 AM on Thursdays and a report that opens at 10 AM Thursdays and closes 10 AM Friday. It is anticipated that you will complete the lab during the scheduled lab time. That is when I will have the most availability for you. I will have a Webex session every Thursday 10:00- 10:30 AM to give you a pre-lab lecture and to answer questions about that week's lab. I will then hold another class wide Webex session at 12:50 PM to answer any questions that have come up while you were working on the lab.

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. You are expected to complete the lab during the scheduled lab time this includes attending the pre-lab lectures each week and the office hours to answer any question you have about the 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.**

You are given access to all of the lab videos and all of the readings for the whole semester. It is assumed that prior to the Pre-lab meeting you have read and watched all the videos for the current lab module. I will be most available to help you during our scheduled lab time, so that is when I expect you to complete the lab.

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 is required, 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) + 12 reports x 20 points (240 points) + Homework (20 points) + 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%

Regrades

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

Make up Policy

There is no lab make ups, you are given 24 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. If a situation arises in which you need more time, then you will fill out a missed assignment form and put it into the Assignment folder on iCollege.

Withdrawals

The last day to withdraw from this class with a W is March 2nd.

GSU Policy Prohibiting Students from Posting Instructor-Generated Materials on External Sites

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.

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

This schedule is tentative, and deviations may be necessary.

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.