

DEPARTMENT OF CHEMISTRY

ONLINE Intermediate Organic Chemistry Lab II (CHEM 3110, CRN 12825, 2 credits)

Spring 2020

The changes/updates are highlighted in Yellow

Instructor: Dr. Joan Mutanyatta-Comar
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Office hours: **Online (via WebEx, iCollege) TTh: 10:00 am-1:00 pm.**
Any other time by appointment. Please email me.

Lecture: Tuesday/Thursday: 8:00 am - 10:00 am – ONLINE (iCollege)
Watch assigned YouTube videos uploaded on iCollege and write notes. Then do assigned homework

Required Text: **GSU CHEM 3110 Lab Manual**
(Included in the price of supply card).

Optional Text: **Experimental Organic Chemistry**, by Wilcox and Wilcox.
Organic Chemistry, by John McMurry (9th Edition)

Communication:

1. Please send emails to me from your GSU e-mail account, (e.g., jcole1@student.gsu.edu). Please put the course name in the subject of your email. **(Please do not email me from iCollege)**
2. **Please check iCollege daily for class announcements and updates**

Learning outcomes: Students in this class will:

- Demonstrate the ability to safely and effectively perform synthetic organic reactions, using proper glassware set-up, handling of hazardous chemicals, and following the prescribed experimental procedures.
- Demonstrate mastery of basic organic chemistry laboratory techniques, including recrystallization, filtration, and melting point determination.
- Gain an understanding of how to determine the structure of organic molecules using ¹H and ¹³C NMR spectroscopy.
- Learn how to search the scientific database for journal articles.
- Demonstrate their ability to effectively communicate scientific results by writing a final report.

Grading Scheme:	Final Exam	100 pts
	Final Report	100 pts
	Notebook	10 pts
	Quizzes/Homework	90 pts
	Total Pts	300

Tentative Letter Grades:

A+	=	95%
A	=	90%
A-	=	87%
B+	=	84%
B	=	80%
B-	=	77%
C+	=	74%
C	=	70%
C-	=	67%
D	=	60%
F	=	<60%

Notes:

- Final letter grades are only available on PAWS/GoSolar. They will not be posted on iCollege. Please note that grades cannot be given to students by phone, or email.
- There will be no make-up for Final Exam

Impt. Dates:

March.	3 rd	Lab begins
Mar.	16 th - 29 th	Extended Spring Break
Apr.	3 rd	Last day to withdraw with grade "W"
Apr.	21 st	Last day of lab
Apr.	21 st	ONLINE Final Exam (9:00 am - 11:00 am)
Apr.	27 th	Submission of final report-no later than 12:00 noon. Late reports will not be accepted

Class Preparation:

Students are **expected** to complete watching all assigned YouTube videos uploaded on iCollege and writing notes in a timely manner. Also, make sure all homework assignments are completed on time.

Chemistry Departments 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 taken must represent the student’s individual, unaided effort. Any suspected offense may be referred to the Department’s Chairman for appropriate action.

All tests taken must represent your individual, unaided efforts. To receive or offer information during any 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 permitted 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.

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 students who are on their rolls but are no longer taking the class and
2. Report the last day the student attended or turned in an assignment.
Students who are withdrawn may petition the Departmental Chair for reinstatement into their classes.

Tentative Online Teaching Schedule

KEYS for homework and quizzes will be uploaded immediately after the submission due date

Dates	Tentative YouTube Videos	Due Dates for Quizzes and Homework Assignments
	<ul style="list-style-type: none"> • Quiz 1 (10 points)-Done before Spring break • Notebook check (10 points) – Done before Spring break 	
March 31	<ul style="list-style-type: none"> • Calculating percentage yield of chalcone, dibromide and epoxide • Mechanisms-dibromide and epoxide • Naming chalcones and isoxazole (Common names and IUPAC) 	Homework 1 (10 points): Covers material on all the videos for March 31 st + preparation of chalcone, dibromide and epoxide: procedures + safety + melting point determination
April 2	<ul style="list-style-type: none"> • ¹H and ¹³C NMR-Introduction • ¹³C NMR 	Homework 1: Due by 12:00 noon.

April 7	<ul style="list-style-type: none"> ^1H NMR-Introduction ^1H NMR- chalcone, dibromide, epoxide and isoxazole 	<ul style="list-style-type: none"> Homework 2 (40 Points): ^1H & ^{13}C NMR.
April 9	<ul style="list-style-type: none"> ^{13}C NMR of Isoxazole The Hammett Equation 	<ul style="list-style-type: none"> Homework 2 Due by 12:00 noon Homework 3 (30 points): ^{13}C NMR of isoxazole + Hammett equation
April 14	<ul style="list-style-type: none"> Format of final report 	<ul style="list-style-type: none"> Homework 3 Due by 12:00 noon
April 16	<ul style="list-style-type: none"> Writing the final report 	
April 21	<ul style="list-style-type: none"> Final Exam (9:00-11:00 am) 	
April 27	<ul style="list-style-type: none"> Submit Final Report by 3:00 pm 	

NOTE:

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

***A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent for the observance of a religious holy day shall be allowed to take an exam or complete an assignment scheduled for that day within a reasonable time after the absence.**

***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.**

***Deviations from this syllabus may be required.**