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
Office: PSC381; Tel.# 404-413-6544
E-mail: jmutanyatta@gsu.edu
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.


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 \(^1\text{H}\) and \(^{13}\text{C}\) 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
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<tbody>
<tr>
<td>Final Exam</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final Report</td>
<td>100 pts</td>
</tr>
<tr>
<td>Notebook</td>
<td>10 pts</td>
</tr>
<tr>
<td>Quizzes/Homework</td>
<td>90 pts</td>
</tr>
</tbody>
</table>

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:

1. 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.
2. There will be no make-up for Final Exam

Impt. Dates:

- March 3rd: Lab begins
- Mar. 16th - 29th: Extended Spring Break
- April 3rd: Last day to withdraw with grade “W”
- April 21st: Last day of lab
- April 21st: ONLINE Final Exam (9:00 am - 11:00 am)
- April 27th: 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

<table>
<thead>
<tr>
<th>Dates</th>
<th>Tentative YouTube Videos</th>
<th>Due Dates for Quizzes and Homework Assignments</th>
</tr>
</thead>
</table>
| March 31 | • Quiz 1 (10 points)-Done before Spring break  
• Notebook check (10 points) – Done before Spring break | Homework 1 (10 points): Covers material on all the videos for March 31st + preparation of chalcone, dibromide and epoxide: procedures + safety + melting point determination |
| April 2  | • $^1$H and $^{13}$C NMR-Introduction  
• $^{13}$C NMR | Homework 1: Due by 12:00 noon. |
<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Assignments</th>
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| April 7    | 1H NMR-Introduction  
1H NMR- chalcone, dibromide, epoxide and isoxazole | Homework 2 (40 Points): 1H & 13C NMR.                                        |
| April 9    | 13C NMR of Isoxazole  
The Hammett Equation                        | Homework 2 Due by 12:00 noon  
Homework 3 (30 points): 13C NMR of isoxazole + Hammett equation |
| April 14   | Format of final report                                                 | Homework 3 Due by 12:00 noon                                                  |
| April 16   | Writing the final report                                               |                                                                              |
| April 21   | Final Exam (9:00-11:00 am)                                              |                                                                              |
| April 27   | 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.*