

# CHEM 2100 Lab I Syllabus (CRN 92490 & 93075) Fall 2020

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<b>Instructor:</b>	Dr. Jianmei Cui
<b>E-mail:</b>	<a href="mailto:jcui@gsu.edu">jcui@gsu.edu</a>
<b>Texts:</b>	Labflow ( <a href="http://www.labflow.com">www.labflow.com</a> )
<b>Optional Texts:</b>	1) Experimental Organic Chemistry by Wilcox and Wilcox, 2 <sup>nd</sup> edition 2) Organic Chemistry Lab Techniques by Lisa Nichols free download <a href="https://organiclabtechniques.weebly.com/download.html">https://organiclabtechniques.weebly.com/download.html</a>
<b>Class Meeting Time:</b>	Wednesday 10-11am via Webex, it's not mandatory but recommended
<b>Office Hours:</b>	Email me at <a href="mailto:jcui@gsu.edu">jcui@gsu.edu</a> for appointment

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## Grading:

Safety quiz	5 points
Lab Quizzes (5 points each, total 12)	60 points
Lab Reports (20 points each, total 12)	240 points
Homework	20 points
Final Exam	80 points
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Total Points	405 points
(drop one quiz among all quizzes -5pts) <b>Final Points</b>	<b>400 points</b>

A+: 96%, A: 92%; A-: 89%; B+: 86%; B: 82%; B-: 78%; C+: 76%; C: 72%; C-: 68%; D: 64%; D-: 60%; F<60%.

## Important Dates:

Aug. 26 <sup>th</sup>	Classes begin
Oct. 13 <sup>th</sup>	Last day to withdraw with grade "W"
Nov. 30 <sup>th</sup> – Dec. 3 <sup>rd</sup>	Final Exam

## Course Description:

This course CHEM 2100 is designed to introduce students to various chemistry projects including natural product extraction, simple/fractional distillation, gas chromatograph, IR, chemical test, synthesis and techniques and tools that are fundamental in organic chemistry labs. This course will be learned through Labflow and iCollege, more information will be posted on iCollege, including how to set up your labflow account at no cost to you.

## Course Organization and Structure:

1. This course will be taught through Labflow, including 13 lab modules.
2. You will be responsible for the timely completion of all assignment. We will have weekly learning contents including videos, prelab quizzes and lab reports.
3. Each lab module will have scheduled open/close time for lab report/quiz (Wednesday 8am - 8pm), however the learning contents (video, reading document) will be always available once students are enrolled.
4. Each module will take a few hours to finish, students are encouraged to finish all assignment during the scheduled time on GoSOLAR (9am-2pm Wednesdays). However, students can finish

their assignments before 8pm each Wednesday (not encouraged), please plan according your time and make sure you can finish on time. Email me during weekday for fast reply, I may not check/reply email during weekend.

### **Miscellaneous:**

1. Department of Chemistry Statement on Student Integrity applies to this course (see below).
2. **Course Learning Suggestions:** Starting assignments early on Wednesday morning so that you have time to study and discuss your questions with instructor, please do not wait until the last minutes; pay attention to any announcement made on iCollege in case you miss out important requirement;
3. **Make-up/Absence Policy:** It is the student's responsibility to finish all assignment on time, you have 12 hours on Wednesday to finish your assignments. Please do not try to finish your assignment at the last minutes, you may be out of time and lose points. Remember that there will be no make-up given. If a student is unable to finish due to extenuating circumstances, such as a family emergency, illness, or injury, then possible time extension may be offered to the student at the instructor's discretion, please email me as soon as possible.
4. **Disability Services:** 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.
5. **Grading Policy:** Please bring to my attention any discrepancies or an issue within one week after your grade is posted. No change will be made after this period.

### **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.

### **Tentative schedule:**

*Changes and deviations from this syllabus may come and will be announced on iCollege.*

<b>Week #</b>	<b>Date</b>	<b>Starting Time</b>	<b>Ending Time</b>	<b>Labflow Assignments</b>
1	08/26	8:00 am	8:00 pm	<b>Lab Safety</b>
2	09/02	8:00 am	8:00 pm	<b>Melting Point of Compounds and Mixtures</b>
3	09/09	8:00 am	8:00 pm	<b>Recrystallization</b>

4	09/16	8:00 am	8:00 pm	<b>Separation of Benzoic Acid</b>
5	09/23	8:00 am	8:00 pm	<b>Extraction of Caffeine</b>
6	09/30	8:00 am	8:00 pm	<b>Synthesis of Ester</b>
7	10/07	8:00 am	8:00 pm	<b>Simple Distillation</b>
<i>10/13/20</i>				<i>Last day to withdraw and receive a W</i>
8	10/14	8:00 am	8:00 pm	<b>Fractional Distillation</b>
9	10/21	8:00 am	8:00 pm	<b>Aldehyde and Ketones</b>
10	10/28	8:00 am	8:00 pm	<b>Classification of Alcohols</b>
11	11/04	8:00 am	8:00 pm	<b>Identification of Halides</b>
12	11/11	8:00 am	8:00 pm	<b>IR Identification</b>
13	11/18	8:00 am	8:00 pm	<b>SN2 Preparation of Nerolin</b>
14	11/30- 12/03	8:00 am 11/30	8:00 pm 12/03	<b>Final Exam</b>