

DEPARTMENT OF CHEMISTRY

CHEM 3110 (MMII) ORGANIC CHEMISTRY LAB II Fall 2018

Pre-Lab Lecture (mandatory): Tuesday/Thursday 5:00 to 5:50 pm, PSC 362

Lab: (mandatory): Tuesday/Thursday 6:00 to 9:45 pm, PSC 357

NOTE: You must attend lab lecture and understand the concepts before entering into the laboratory to perform any experiment.

TEXTBOOKS and LABORATORY MATERIALS

- Chem. 3110 Lab Manual (will be distributed during the first lab)
- Experimental Organic Chemistry by Wilcox and Wilcox, second edition, 1995 (Required first day of lab)
- Organic Chemistry, by John McMurry, 8th Edition
- Stitched notebook (mandatory and required first day of lab)
- Safety glasses/goggles (mandatory and required first day of lab)

Also **NOTE:** Absolutely No shorts, No sleeveless, No open toe/open top shoes, No untied long hair, No caps, No Crocs, will be allowed in the lab. Safety will be enforced in the lab.

Instructor: Dr. Thomas J. Robilotto

Office Location: 335 Petit Science Center

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Phone: 404-413-5531

Office Hours: Mondays and Wednesdays 2:00 pm – 4:00 pm
Any other time by appointment

Teaching Schedule

The lab/lecture schedule listed on **page 2** of the GSU laboratory manual will be adhered to as far as possible. To supplement this lab/lecture schedule, a detail schedule will be posted on iCollege/Desire2Learn. You would be informed of any changes made to the schedule. Note that these schedules are all tentative.

Students' preparedness/Important Notes

- Attendance to **lecture and lab** will be **recorded**. **Absences** can result in **loss of points** and **lower grades** (Sign - in/out of lab is required). Every effort should be made to arrive on time! Students should be responsible for the timely completion of all assignments, regardless of any reason of absence.
- **No make-up quizzes, Notebook checks, homework or final exam will be given!** If a student misses a quiz, notebook check or homework it will be counted as a zero.
- For each lab day, we will have a discussion on the procedure (method) for the lab expected to perform on the lab day, so ensure to read the lab from the text and any handouts given prior to coming to the lab.
- You are responsible for the material discussed in lectures and assignments from the textbooks to apply in all quizzes and final exam.

- Please bring to my attention any discrepancies or issues within one week after your grade is posted. No change will be made on iCollege/D2L after this period.
- **You are to adhere to the lab safety rules presented and follow instructions carefully.**
- Failure to follow safety procedures will result in expulsion from that lab session with no make - up allowed and loss of credit.
- **Bound lab notebooks are required on the first day of lab.** All entries MUST be made in ink at the time the experiment is being carried out. Notebooks must be submitted with the Final Report.

Lab policy

- Cleaning up is part of the lab session. Students should stop working and begin cleaning up their work area, including their hood space, at least 25 minutes before the conclusion of the lab session.

Quizzes and homework

- Quizzes to be taken will be announced one week in advance.
- Home work will be announced in advance, and must be submitted on the designated day. Failure to submit would result in deduction of points. Please check iCollege/Desire2Learn for information pertaining to this course.

GRADING SCHEME

Final Exam:	100 points
Final Report	100 points
Quizzes, homework, notebook, attendance, and preparation	<u>100 points</u>
	Total 300 points

- Lab notebooks must be submitted to receive a passing grade.
- Lab notebooks must be picked up within two weeks after final grade deadline (after which time they will be discarded)

Letter grades are assigned based on the following scale (which may be varied slightly):

A+	=	96%
A	=	90%
A-	=	87%
B+	=	84%
B	=	80%
B-	=	77%
C+	=	73%
C	=	70%
C-	=	66% etc.

The grade letter you earn will be assigned. You will have access to most of your grades in iCollege/Desire2Learn.

Important Dates

Oct	9 th	Labs begin
Oct	26 th	Last day to withdraw with grade "W"
Nov	19-23 th	Holiday: Thanksgiving Break (no lab)
Nov	26 th	Final exam (5:00 - 7:00 pm) followed by check out
Nov	30 th	Final report and Notebook due in my Office 358 Petit Science Center by 12:00 pm

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.

NOTE:

Students are requested NOT to bring cellular telephones and/or pagers to lectures and labs, or exams. Persons violating this request will be asked to leave the room.

Miscellaneous/Department Notes:

1. Department of Chemistry Statement on Student Integrity applies to this course (see below).
2. Attendance to **lecture** and **lab** will be recorded. Absences can result in loss of points and lower grades (Sign-in/out of lab required).
3. Lab books must be recorded **in ink** at the time the measurements are made. **They will be graded during the lab section without announcing! Lab notebooks must be bound.**
4. **Safety glasses* are required and must be worn at all times.** *The student must bring a pair of safety glasses/goggles to the first lab. These may be purchased at the GSU Bookstore, the Georgia Bookstore, and most hardware stores. Students who are unable or forget to bring their glasses may buy a pair from their lab Coordinator by filling out a breakage form in the lab. Students who obtain glasses in this manner will pay for them at the time they check out of the lab. Students will not be allowed into the lab without their glasses/goggles or properly attired.
5. **Gloves MUST be worn when handling chemicals.**
6. **SAFETY. Failure to follow safety procedures will result in EXPULSION from that lab session with no make-up allowed and loss of credit. SAFETY, NOTHING GOES INTO THE SINK, USE THE HOODS!!!** Please bring me a schedule of your RELIGIOUS HOLIDAYS OBSERVANCE the SECOND WEEK of class. If you fail to do so you might miss important quizzes for this course. Please check iCollege/ Desire2Learn regularly for announcements to include homework and quizzes.

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.

Very important: The following is a tentative schedule of procedures and activities for **Chem 3110 Fall of 2018**. Any changes and deviations from this syllabus will be announced during class (quizzes, homework, and others). Do not miss lectures otherwise you will not know what is going on.

Deviations from this syllabus may be required!

Laboratory Schedule

Lecture & Lab Dates	Tentative Lecture Emphasis (labwork)	Reading Assignments (Read before lecture) pp. Wilcox & Wilcox
October 9	Safety Video, Objectives of course (check-in; begin lab = chalcone preparation)	3-24
October 11	Recrystallization of chalcone, purity (m.p), Yield, Lit. Search	84-102 and lab manual HW1 issued
October 16	Overview of synthetic routes (Epoxide and/or dibromide preparation)	HW1 due
October 18	Overview continued; structure proof (Epoxide and/or dibromide preparation)	234-253 (IR) Quiz 1, HW2 issued
October 23	Structure proof continued (Isoxazole preparation)	263-288 (NMR) HW2 due
October 25	UV Spectroscopy (Complete preparations and purifications)	254-262 Quiz 2, HW3 issued
October 30	UV Spectroscopy continued; Optional procedures (Begin optional procedures)	HW3 due
November 1	Optional procedures continued	Quiz 3, HW4 issued
November 6	C-13 NMR (Synthesis of optional compounds continued)	263-288 HW4 due
November 8	C-13 NMR continued (Synthesis of optional compounds continued)	Quiz 4, HW5 issued
November 13	Synthesis of optional compounds continued	HW5 due
November 15	Format of Final Report; Format of Final Exam; (Clean –up, check-out)	Quiz 5
November 20-24	Thanksgiving Break	
November 26	Final Exam 5:00 pm – 7:00 pm	
November 30	Paper and Notebook DUE BY NOON	

*Deviations from this syllabus may be required.