

**DEPARTMENT OF CHEMISTRY**  
**CHEM 3110 (MMI) SYLLABUS Fall 2016**

**Lecture:** Monday/Wednesday - 8:00 am - 8:50 am, PCS 362  
**Lab:** Monday/Wednesday - 9:00 am - 12:45 pm, PSC 357  
**Texts:** **GSU CHEM 3110 Lab. Manual** (included in the price of supply card).  
**Experimental Organic Chemistry**, By Wilcox and Wilcox.

**Instructor:** Dr. Jianmei Cui (E-mail: jcui@gsu.edu)  
**Office:** Rm. PSC305  
**Office hours:** Making appointment by email in advance. (Tuesdays between 10 am - 12:00 pm)  
**Grading Scheme:**

Final Exam*	100 pts
Final Report*	100 pts
Homework, Notebook, quizzes, preprn. ***	<u>100 pts</u>
<b>Total Pts</b>	<b>300</b>

**Letter Grades:**

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

\*Must be submitted to receive a passing grade

\*\*Notebooks can be picked up within first **TWO** weeks after the following semester starts (after which time they will be discarded), also email me for picking up.

**Important Dates:**

Aug. 22 <sup>th</sup>	<b>Classes begin</b>
Sep. 9 <sup>th</sup>	<b>Last day to withdraw with grade "W"</b>
Oct. 3 <sup>th</sup>	<b>Last day of lab, checkout</b>
Oct. 5 <sup>th</sup>	<b>Final Exam (8:00 am - 10:00 am), submission of final report and notebook.</b>

**Important Notes:**

1. Attendance to lecture and lab will be recorded. Absences can result in loss of points and lower grades (Sign-in/out of lab 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.**
2. **No make-up quizzes, Notebook check, homework & final exam will be given! If a student misses a quiz, notebook check or homework will be counted as zero.**
3. **Please bring to my attention any discrepancies or issues within one week after your grade are posted. No change will be made on D2L after this period.**
4. **Bound lab notebooks are required at 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.
5. **Safety glasses/goggles: Students must bring safety glasses/goggles and wear long pants & closed toe shoes on the first day as synthesis will begin immediately after check-in.**
6. Failure to follow safety procedures will result in expulsion from that lab session with no make-up allowed and loss of credit.

## 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.

## Laboratory Schedule

<b>Lecture &amp; Lab Dates</b>	<b>Tentative Lecture Emphasis (labwork)</b>	<b>Reading Assignments (Read before lecture) pp. Wilcox &amp; Wilcox</b>
Aug. 22 <sup>th</sup>	Safety Video, Objectives of course (check-in; begin lab = chalcone preparation), Safety Exam	3-24
Aug. 24 <sup>th</sup>	Recrystallization of chalcone, purity (m.p), Yield, Lit. Search	<b><u>HW1 Issue &amp; Notebook Check 1</u></b> ; 84-102 and lab manual
Aug. 29 <sup>th</sup>	Overview of synthetic routes (Epoxide and/or dibromide preparation)	<b><u>HW2 Issue &amp; HW1 Due.</u></b>
Aug. 31 <sup>th</sup>	Overview continued; structure proof (Epoxide and/or dibromide preparation)	<b><u>Quiz 1 &amp; HW2 Due</u></b> ; 234-253 (IR)
Sep. 7 <sup>th</sup>	Structure proof continued (Isoxazole preparation)	<b><u>HW3 Issue</u></b> , 263-288 (NMR)
Sep. 12 <sup>th</sup>	UV Spectroscopy (Complete preparations and purifications)	<b><u>Quiz 2 &amp; HW3 Due</u></b> ; 254-262
Sep. 14 <sup>th</sup>	UV Spectroscopy continued; Optional procedures ( Begin optional procedures)	<b>Notebook Check 2.</b>
Sep. 19 <sup>th</sup>	Optional procedures continued	<b><u>Quiz 3</u></b>
Sep. 21 <sup>th</sup>	<sup>13</sup> C NMR (Synthesis of optional compounds continued)	263-288
Sep. 26 <sup>th</sup>	<sup>13</sup> C NMR continued (Synthesis of optional compounds continued)	<b><u>Quiz 4</u></b>
Sep. 28 <sup>th</sup>	Format of Final Exam (Last day to begin a new synthesis)	<b><u>Quiz 5</u></b>
Oct. 3 <sup>th</sup>	Format of Final Report Miscellaneous topics (Complete additional procedures and lab work)	7-8 (lab manual) <b>(Clean –up, check-out)</b>
Oct. 5 <sup>th</sup>	<b>Final Exam (8:00 AM-10:00 AM)</b> Submit Final Report and Notebook( <b><u>Due 12:00 PM</u></b> )	

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