

Chemistry 3110/  
Summer 2014

LECTURES: MW 9:00-9:50 a.m., 362 PSC; Read assignments before lecture  
LAB: MW 10:00-1:45 p.m., 3574 PSC, Note: lab meets after the lecture  
TEXTS: 1. GSU Chem 3110 lab manual; supplied during 1<sup>st</sup> lecture/lab (included in lab fee)  
2. Experimental Organic Chemistry, Wilcox and Wilcox, Prentice Hall  
(Background text also used in Chem 3100)

PROFESSOR: Al Baumstark, 386 PSC, 404-413-5516, [abaumstark@gsu.edu](mailto:abaumstark@gsu.edu)

OFFICE HOURS: After lab or by appointment

GRADING:

Final Exam*	100 points (July 23)
Final Formal Report*	100 points (Due July 25, 9:00 a.m.; notebook must be included)
Preparation, Quizzes (1-5) and Lab Book*,**	(No makeup quizzes will be given) <u>100 points</u> 300 points - maximum

\*Must be submitted to receive a passing grade.

\*\*Notebooks must be picked up within one week after final grade deadline (after which time they will be discarded)

Tentative Cutoffs:

A+	95%	B-	77%
A	90%	C+	74%
A-	87%	C	70%
B+	84%	C-	65%
B	80%		

NOTES:

1. Final Exam on Wednesday, July 23
2. July 7 is the last day to drop with a W.
3. Department of Chemistry Statement on Student Integrity applies to this course (see below).
4. Attendance to **lecture** and **lab** will be recorded. Absences can result in loss of points and lower grades (Sign-in/out of lab required).
5. Lab books must be recorded in ink at the time the measurements are made to be graded! Lab books must be bound.
6. Safety glasses\* are required and must be worn at all times. Proper attire including proper closed toed shoes must be worn in the lab.
7. Failure to follow safety procedures will result in expulsion from that lab session with no make-up allowed and loss of credit.
8. No chemicals in the sinks; work in hoods; proper disposal/handling procedures.

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 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.

<u>Lecture &amp; Lab Dates (Quiz)</u>	<u>Tentative Lecture Emphasis (labwork)</u>	<u>Reading assignments pp. Wilcox &amp; Wilcox</u>
June 9	Safety, Objectives of course (check-in; begin lab = chalcone preparation, pick card with chalcone starting materials)	
June 11 (Q1)	Safety Exam, Recrystallization, purity Lit. Search (recryst of chalcone)	3-24 Lab Manual and 84-102 (read before lecture)
June 16	Overview of synthetic routes (Epoxide and/or dibromide prep)	Lab Manual
June 18 (Q2)	Overview continued; structure proof (Epoxide and/or dibromide prep)	234-253 (IR)
June 23	Structure proof continued (Isoxazole preparation)	263-288 NMR
June 25 (Q3)	Methods of UV spectroscopy (Finish preparations and purifications)	254-262
June 30	UV continued; optional procedures (Begin additional procedures)	Lab Manual
July 2 (Q4)	Optional procedures (Continue additional preparations)	
July 7	<sup>13</sup> C NMR; last day to drop with a W (Continue additional preparations)	263-288
July 9	<sup>13</sup> C NMR Continued (additional procedures)	Lab Manual
July 14 (Q5)	Topic (last day to begin a new synthesis)	36-39
July 16	Form of Final Exam (finish additional procedures, complete lab work)	
July 21	Form of Final Report (Clean-up; proper disposal techniques, check-out)	
July 23	Final Exam	

#### POLICY FOR WORKING IN THE LABORATORY:

Students in 3110 lab classes have permission to be in the laboratory other than their regularly scheduled lab period only when the lab is officially open and only to perform IR or Melting Point Determinations. No experiments are to be done outside of the scheduled lab time. Experiments which require over-night heating may be turned off, allowed to cool and then secured [work-up (lab work) will not be allowed].

\*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. Students lacking proper shoes or attire may purchase disposable items in the lab to leave lab to change clothes, etc.