

Chemistry 3110
Summer 2016

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LECTURE: Tu, Th 9:00-9:50 am., 362 PSC; Read assignments before lecture

OFFICE HOURS: after lecture or by appointment

LAB: Tu, Th, 10:00-1:45 pm. 357 Petit Science Center (PSC) Note: lab meets after the lecture

- TEXTS:
1. GSU Chem 3110 lab manual; supplied during 1st lecture/lab
 2. Experimental Organic Chemistry, Wilcox and Wilcox, Prentice Hall (Background text also used in Chem 3100)
 3. The Organic Chem Lab Survival manual by Zubrick (optional)

GRADING:

Final Exam*	100 points (July 21, 2016)
Final Formal Report*	100 points (Due July 21, 2016)
Preparation, Quizzes and Lab Book*,**	<u>100 points</u> 300 points - maximum

TENTATIVE CUTOFFS:

A+ > 95
A 90% or above
A- 87%
B+ 84%
B 80%
B- 77%
C+ 73%
C 70%
C- 66%
etc.

*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)

- NOTES:
1. Final Exam on Thursday, July 21st, 2016.
 2. July 1st, 2016 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.
 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 Make UP Quizzes or Final EXAM.**

*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.

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.

Reading assignments Lecture & Lab Dates	Tentative Lecture Emphasis (labwork)	pp. Wilcox & Wilcox
June 7	Safety, Objectives of course (check-in; begin lab = chalcone preparation)	3-24 (read before lecture)
June 9	Safety Exam, Recrystallization, purity Lit. Search (recryst. of chalcone)	84-102 and <u>lab manual</u>
June 14	Overview of synthetic routes (Epoxide and/or dibromide prep)	
June 16	Overview continued; structure proof (Epoxide and/or dibromide prep)	234-253 (IR)
June 21	Structure proof continued (Isoxazole preparation)	263-288 NMR
June 23	Methods of UV spectroscopy (Finish preparations and purifications)	254-262
June 28	UV continued; optional procedures (Begin additional procedures)	
July 30	Optional procedures (Continue additional preparations) Note: July 1 st --- Last Day to Drop with a "W"	
July 05	¹³ C NMR (Continue additional preparations)	263-288
July 07	¹³ C NMR continued (Additional procedures)	
July 12	Form of Final Exam (Additional procedures)	
July 14	Form of Final Report (Last day to begin a new synthesis)	36-39
July 19	Evaluation; Miscellaneous topics (Finish additional procedures, complete lab work)	
July 21	Final Exam (Clean-up; proper disposal techniques, check-out)	

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 schedule 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].