LECTURES: Tu-Th 8:00-8:50 a.m., 362 PSC; Read assignments before lecture
LAB: TuTh 9:00-12:45 p.m., 357 PSC, Note: lab meets after the lecture
TEXTS: 1. GSU Chem 3110 lab manual; supplied during 1st 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, abbaumstark@gsu.edu
OFFICE HOURS: After lab or by appointment (email to set-up time)

GRADING:

Final Exam* 100 points (Feb 24)
Final Formal Report* 100 points (Due February 26, 10:00 a.m.) *hard copy only
Preparation, Quizzes (No makeup quizzes will be given)
and Lab Book*,** 100 points
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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>B</td>
<td>80%</td>
</tr>
<tr>
<td>B-</td>
<td>77%</td>
</tr>
<tr>
<td>C+</td>
<td>74%</td>
</tr>
<tr>
<td>C</td>
<td>70%</td>
</tr>
<tr>
<td>C-</td>
<td>65%</td>
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# Honors Section: Select 7 required syntheses (vs. 6 for non-honors section) and select a difficult series of new compounds to synthesize as the project. It is expected that honors students develop a significant scientific question that can be addressed as optional syntheses that will be an integral part of the final report.

NOTES:

1. Final Exam on Tuesday, Feb. 24
2. January 30 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. All final reports must be original and written by the student (no copying).
<table>
<thead>
<tr>
<th>Lecture &amp; Lab Dates</th>
<th>Tentative Lecture Emphasis (labwork)</th>
<th>Reading assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 13</td>
<td>Safety, Objectives of course (check-in; begin lab = chalcone preparation, pick card with chalcone starting materials)</td>
<td>pp. Wilcox &amp; Wilcox 3-24</td>
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<tr>
<td>Jan 15</td>
<td>Safety Exam, Isolation, Recrystallization, Purity, Lit. Search (recryst of chalcone)</td>
<td>84-102 and lab manual (read before lecture)</td>
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<tr>
<td>Jan 20</td>
<td>Overview of synthetic routes (Epoxide and/or dibromide prep)</td>
<td>Lab Manual</td>
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<tr>
<td>Jan 22</td>
<td>Overview continued; structure proof (Epoxide and/or dibromide prep) (IR)</td>
<td>234-253</td>
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<tr>
<td>Jan 27</td>
<td>Structure proof continued (Isoxazole preparation)</td>
<td>263-288; Lab Manual NMR</td>
</tr>
<tr>
<td>Jan 29</td>
<td>Methods of UV spectroscopy (Finish preparations and purifications) Last Day to Drop with a “W”</td>
<td>254-262</td>
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<tr>
<td>Feb 3</td>
<td>UV continued; optional procedures (Begin additional procedures)</td>
<td>Lab Manual</td>
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<tr>
<td>Feb 5</td>
<td>Optional procedures (Continue additional preparations)</td>
<td>Lab Manual</td>
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<tr>
<td>Feb 10</td>
<td>$^{13}$C NMR (Continue additional preparations)</td>
<td>263-288</td>
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<tr>
<td>Feb 12</td>
<td>Form of Final Report and Final Exam (Additional procedures)</td>
<td>36-39</td>
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<td>Feb 16</td>
<td>Form of Final Exam (Last day to begin a new synthesis)</td>
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<td>Feb 19</td>
<td>Miscellaneous topics (Finish additional procedures, complete lab works, begin clean-up)</td>
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<tr>
<td>Feb 24</td>
<td>Final Exam (Clean-up; proper disposal, check-out)</td>
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**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 in the lab without their glasses/goggles. Students lacking proper shoes or attire may purchase disposable items in the lab or leave lab to change clothes, etc.*