Information and Policies

Instructor: Michael W. Giuliano
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Office Phone: (843) 953-8099

Student hours: To be posted during the first week of classes. Student hours will be online via Zoom meetings at their scheduled time or by appointment – they are for you! Please take advantage of them. Bring problems you’ve been working on, ask questions about lectures and in-class exercises, and we’ll go over it all.

Meeting Time and Location: Chemistry 232S, Section 01. CRN: 13551. Class meets Fridays from 2:00pm - 2:50pm in School of Science and Mathematics Building (SSMB), Room 138. See you there!

Important dates during the semester: Monday, August 30th, 2021 – last day to drop/add; Saturday, September 25th–Sunday, September 26th, 2021 – storm makeup days; Monday, October 18th through Tuesday, October 19th, 2021 – no class due to Fall Break; Friday, October 29th, 2021 – last day for students to Withdraw with a grade of “W”; Saturday, November 6th-Sunday, November 7th, 2021 – storm makeup days; Wednesday November 24th, 2021 through Friday November 16th, 2021 – no class due to Thanksgiving; Monday, December 6th, 2021 – last day of classes; Tuesday, December 7th, 2021 – Reading Day. Exam dates: In lieu of a sit-down exam, the final assignment in this course is a reaction guide that you will prepare from your notes and text throughout the semester.

Required text:


Optional texts:


Co-requisite: You must be concurrently registered in Chem 232.

Attendance: Required. Attendance is incorporated into your grade and you may miss no more than two sessions. Missing a third session will set your highest possible grade at 75% and your grade will drop a full letter for each absence thereafter. Excused absences outside of the two allowed (illness with appropriate notification via doctor’s note/health center notice, official representation of the College, e.g. conference) will require make-up assignments.

Students with Disabilities: Please consult the Student Guide to SNAP Services:

Academic Integrity: Many instances of academic dishonesty arise from students feeling overwhelmed in a course or by external pressures. College can be an overwhelming time, and if you are feeling this way about my class, please contact me! I would much rather work with a student at office hours and/or by appointment than see them compromise their academic values. The results are upsetting for all involved. As such, I will strictly enforce academic honesty and integrity in all facets of this course. The course is conducted under the Honor Code of the College of Charleston. You are responsible for reading, understanding, and strictly adhering to this policy, as am I. For more information, please see the College’s policy information at [http://studentaffairs.cofc.edu/honor-system/](http://studentaffairs.cofc.edu/honor-system/) and the Department of Chemistry and Biochemistry’s policy at [http://chemistry.cofc.edu/documents/Scientific_Integrity_2011.pdf](http://chemistry.cofc.edu/documents/Scientific_Integrity_2011.pdf).

Email and contact: As stated, my office hours are open-door times. I may need to email the class list should changes to the course be required or other circumstances arise. Email is considered an official communication method at the College of Charleston, and all students are expected to frequently if not daily check their official CofC email account to ensure that no announcements or messages regarding this course (or any other for that matter) are not missed.

Electronic devices in the classroom: Please be respectful and keep your phones turned off. So long as they are not a distraction to others in the class, using a laptop or tablet to assist you via electronic course materials during problem solving sessions is fine – this policy is subject to change should circumstances require it.

Grading and Evaluation

- **Attendance and Participation:** 25% of grade. You must attend sessions and sign in each day. No more than two sessions may be missed. Please refer to the attendance policy written above.

- **Worksheets:** 35% of grade. You must work with peers to complete each day’s worksheet and hand in your completed work at the end of the session. Show your work to your instructor as you leave. Participation in discussing the answers is expected.

- **Presenting a Problem:** 30% of grade. You must, twice during the course of the semester, present a problem from the text. The key here is not whether you got it right or wrong, but rather to 1) learn to communicate organic chemistry concepts with technical precision and 2) stimulate discussion of organic chemistry topics by leading the class through your specific problem-solving methods. A basic rubric for how this will be evaluated is shown below:

  **PRESENTATION GRADE:**

  ![Rubric](http://example.com/rubric.png)

  I. Student followed directions of assignment
  Comments: __________________________
  2 4 6 8 10

  II. Student’s writing was legible.
  Comments: __________________________
  2 4 6 8 10

  III. Student used appropriate terminology.
  Comments: __________________________
  2 4 6 8 10

  IV. Student responded to questions thoughtfully.
  Comments: __________________________
  2 4 6 8 10

  V. All aspects of the assignment were thoroughly covered.
  2 4 6 8 10

- **Final Reaction Guide:** 10% of grade. A Cumulative final assignment will be turned in at the end of the semester and assigned early on. It entails deriving a topical and reaction guide to second-semester organic chemistry from your notes, referencing to your text, and will be assigned/discussed at a later date.

Grading Scheme:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100 %</td>
</tr>
<tr>
<td>A-</td>
<td>90-92 %</td>
</tr>
<tr>
<td>B+</td>
<td>87-89 %</td>
</tr>
<tr>
<td>B</td>
<td>83-86 %</td>
</tr>
<tr>
<td>D+</td>
<td>67-69 %</td>
</tr>
<tr>
<td>D-</td>
<td>60-62 %</td>
</tr>
</tbody>
</table>
Student Learning Outcomes:

- Students will be able to logically discuss and explain organic chemistry principles, mechanisms, and reactions.

Course Outline: *(subject to change pending lecture course progress and student needs)*

Session 1: Cumulative Problem Solving

Session 2: Spectroscopy with reactions

Session 2: Use of organometallic reactions in synthesis

Session 4: Organic oxidations/reductions

Session 5: Stereo- and regiochemistry in epoxide opening

Session 6: Acetals as protecting groups, synthesis

Session 7: Reactions of aldehydes and carboxylic acids

Session 8: Acids, bases, esters, and equilibria

Session 9: Mechanistic steps in acyl transfer

Session 10: Acyl transfer review and synthesis

Session 11: enolates and aldol disconnections

Session 12: enolates beyond aldol reactions

Session 13: amines in organic synthesis

Session 14: open review of second-semester topics