

**Course Instructor** Brenton DeBoef bdeboef@chm.uri.edu  
312A Pastore Laboratory 401-874-9480

Office hours may be arranged by appointment.

**Course Meetings** Monday (recitation), Wednesday (quiz and lecture) and Friday (lecture) at 11:00 am in Pastore Laboratory, Room 122. One additional lecture per week will be posted as a web video on the course website.

**Recitation** The goals of the recitation are twofold: 1) providing extra time to work course-related problems with the professors (including group-oriented problems), and 2) facilitate discussions of problems at the interface of chemistry and biomedical science taken from the current biomedical literature. Examples of potential discussion topics include biomedical imaging agents, the mechanisms of anti-retroviral drugs and the chemical synthesis of glycopeptides and their potential as synthetic vaccines.

**Textbook** McMurray, John, Organic Chemistry with Biological applications, 2e Ed., Brooks/Cole Cengage Learning; Belmont, CA, 2011.

**Webpage** [http://www.chm.uri.edu/show\\_content.php?topic=chm292\\_S11](http://www.chm.uri.edu/show_content.php?topic=chm292_S11)

**Absentee Policy** Daily attendance will not be recorded, but attendance is strongly encouraged. Students must attend all exams. There will be no exceptions.

**Grading Scheme** There will be weekly quizzes and two final exams. Homework problems will be posted on the course website, but will not be collected or graded. The answers to these problems will also be posted on the website. Quizzes will be distributed promptly at 11:00 on Wednesdays, and should last 15 minutes. The two lowest quiz scores will be dropped. Quizzes cannot be made up. If the University is closed for snow or any other reason, the weekly quiz will be given on the next class day the University is open.

<u>Weekly Quizzes</u>	<u>60%</u>
<u>Standardized Exam</u>	<u>20%</u>
<u>Final Exam</u>	<u>20%</u>

The standardized exam will cover both semesters of organic chemistry and will be used to gauge a student's preparation for graduate/medical school entrance exams. The second final exam will be specific to material taught in this course. Both exams will be administered at the end of the course.

**Course Goals** This course covers the theoretical study of some of the most important reactions in the field of synthetic organic chemistry and relates them to contemporary biomedical science. The overarching goal of this course and its associated laboratory is the enabling of students towards careers in the chemical and biomedical sciences, particularly in preparing students for future studies in medical or graduate school.

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**Textbook** A carbon copy notebook must be used to record all data. All experiments will be distributed on the course website.

**Webpage** Login to the 2121-CHM292 & CHM228H page at <https://sakai.uri.edu>.

**Other Required Materials** RAM account and card to purchase items through the Pastore 210 stockroom.  
Safety goggles/glasses, lab coat, purple nitrile protective gloves.  
Padlock for equipment drawer (can be purchased from stockroom for \$6.00).  
ChemDraw and MNova software (to be discussed on the first day of class).  
Any equipment not issued by the stockroom must be approved by the stockroom.

**Absentee Policy** Attendance is required. If a laboratory class is missed and the missed day is a technique, that quiz and worksheet will count as the dropped quiz and worksheet. There is no make up option for a missed technique. If a laboratory class is missed and the missed day is an experiment, the student will have to attend the make up experiment at the end of the semester. The experiment used as the make up experiment is more difficult than the other experiments conducted throughout the semester.

<b>Grading Scheme</b>	<u>Quizzes</u>	10%
	<u>Worksheets</u>	20%
	<u>Lab Reports</u>	40%
	<u>Practical Exam</u>	15%
	<u>Final Lab Report</u>	20%

Each experimental lab will start with a closed book/open notes quiz. Some of the labs require worksheets, while others require written laboratory reports. The worksheets will be graded out of 30 points, with 20 points assigned to the questions and 10 points assigned to the datasheet. Lab reports will be graded out of 100 points, and a detailed grading rubric can be found on the course website. The lowest quiz grade and lowest worksheet grade will be dropped. If a student misses one of these days, it will count as the dropped grades. No lab report grades will be dropped. If a student misses one of these days, the student must do the make up experiment and lab report at the end of the semester. The final synthesis project cannot be dropped and must be completed to earn a passing grade in the course. An exam during finals week (the Practical Exam) will be administered.

**Late Policy** All assignments are due at the beginning of the lab period. Students will have at least a full week to complete an assignment. If an assignment is handed in after the first 15 minutes of lab, the corresponding grade will receive a 50 percent deduction. No assignments will be accepted beyond 15 minutes after the start of the subsequent lab period after the assignment was due. For example, an assignment due on a Wednesday must be received that day before 8:15 a.m. for full credit. Anytime between 8:15 a.m. on Wednesday and 8:15 a.m. on Friday

will result in a 50 percent deduction. The assignment would receive no credit after 11:15 a.m. on Thursday.

**Equipment and Check Out**

Students are responsible for the equipment in their drawers. The drawer assigned to the student on the first day of classes is his/her responsibility. Any broken equipment must be replaced at the student's expense. Any student who has an unpaid bill with the chemistry stockroom will have a sanction placed on his/her e-campus account. This sanction will prevent the student from registering in future. Also, drawers must be checked out at the end of the semester or if a student chooses to drop the course. Improper check out will result in a \$10.00 charge and a sanction on the student's e-campus account.

**Academic Integrity**

Academic dishonesty will not be tolerated. Students who cheat or misrepresent their work will be subject to the disciplinary actions contained in the URI University Manual, including a grade of "zero points" on the assignment/exam and potentially culminating with expulsion from the University. All students will sign the Department of Chemistry's policy on plagiarism and academic dishonesty prior to beginning work in this course.