CHEMISTRY 232, Summer 2017, SECTION 01, POSTED July, 2017 (SUBJECT TO CHANGE)

Instructor: F.J. Heldrich (FJH)  
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Office Hours: Available by email, by appointment or during designated period, as indicated below

FJH Summer I Schedule:  
M-F, 8:00-9:45 am, CHEM 232 Lecture, Room 129 SSMB  
T-R, 10:00 am - 1:00 pm; CHEM 232 Lab, Room 105 SSMB  
Office Hours: T-F, 2:00 – 3:30 pm.

Final Exam: We will be using a timed nationally standardized American Chemical Society examination for the year-long 231/232 lecture/laboratory course sequence. The lecture examination is scheduled for Wednesday, August 2nd, at 8 am.

Required Text: Carey & Giuliano, Organic Chemistry, McGraw Hill, 10e. The link to the publisher’s e-access for this course is: https://connect.mheducation.com/class/heldrich-july-2017

Content: The goal of this course is to help you learn fundamental principles of organic chemistry to serve as the basis for further study in Chemistry and Biochemistry. The topical coverage will include materials and concepts as described in Chapters 14-23 of the required text and it is assumed you will enhance and build on your knowledge in the prerequisite 231 lecture and laboratory courses; and the co- or prerequisite 232 laboratory course. The course is intentionally cumulative.

Student Learning Outcomes:

- Demonstrate intermediate communication skills within organic chemistry for example structure, nomenclature, mechanisms, reaction schemes
- Draw and interpret mechanisms for organic reactions of increased sophistication
- Integrate knowledge and principles of organic reactions and reactivities to make reasonable predictions about likely outcomes when presented with related chemistry or retrosynthetic schemes

Co-Pre-requisite Policy: Chemistry 232L is a co- or pre-requisite of this course. If you are taking the lecture and have previously passed the laboratory course, you do not need to retake the laboratory.

Attendance Policy: Attendance is required. Grades of 0 will be recorded for all missed evaluations (quizzes, tests, exam) in this course.

Grade Scale:

A, 100-93;  A-, 92-90;  B+, 89-87;  B, 86-83;  B-, 82-80;  C+, 79-77;  
C, 76-73;  C-, 72-70;  D+, 69-67;  D, 66-63;  D-, 62-60;  F, <60
Grade Scheme: There will be four in class tests, and a final examination. The final exam will be the nationally standardized ACS examination for the year-long introductory organic chemistry lecture/lab sequence. Tentative test dates, which are subject to change, are listed on the schedule. Each test and the final exam will constitute 20% of the course grade. No make-up tests will be given. In the event of an absence from a test you will receive a grade of 0. Your final exam grade will replace your lowest test grade if doing so will improve your overall course grade. It is recommended that you immediately acquire the ACS study guide if you are interested in using it to prepare for the final examination (http://www.examsinstitute.com/).

Testing Policy: The tests and the final examination will be timed and lack of time may be a factor for some individuals. Students who qualify for extra time through the SNAP office must follow the SNAP office procedures. The tests may include multiple choice, short answer, matching, transformation, mechanism and synthesis type questions. It is highly recommended that students work problems from old tests (posted on OAKS) and problems from the end of chapter in the text to prepare for tests. No electronic devices will be allowed when taking the tests or the final examination. Please use a PENCIL when taking the tests.

Honor Code: The standards of the College of Charleston Student Honor Code and Code of Conduct apply to this course. The Departmental Policy on Scientific Integrity, which each student is required to sign in the CHEM 232L course, also applies to this course. For Honor Code and Student Handbook: http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php
For the Departmental Policy on Scientific Integrity: http://www.cofc.edu/~chem (see link on resources page of departmental website)

Tips for Success: You must challenge yourself to be successful in this course. Work is required before you can begin to study. The work (see more about this in On Doing the Work below) involves three stages: reading the appropriate sections of the text before the lecture on that material; attending class and paying attention to what is presented during the class; reviewing what occurred in class and rectifying that with what is in the text. For each chapter, an average person can expect this initial work to take 3x the hours spent in lecture. For summer organic that means 5-6 hours for each day. But doing that work is not sufficient for passing the course. After that work, you are prepared to study. An average person should expect to spend anywhere from 5 to 15 hours of study for each chapter. (Taking organic in the summer is like having a full-time job that requires overtime during the week and both days of the weekend.) Studying is done by attempting to use the knowledge acquired to solve problems. Solving problems is initially hard, frustrating, and more time consuming than the work needed to prepare to study. But the more problems you solve, the easier it will become to solve problems; and the less time you will need to invest in doing the work needed to prepare to solve problems in the future. As a general rule of thumb is that you should challenge your understanding of an idea or concept, by solving related problems, at least seven times in order to master the material. Images are derived from: https://styluspub.presswarehouse.com/Titles/TeachStudentsHowtoLearn.aspx
On Doing the Work: Your purpose in taking notes (while reading or in class) should be to help you to pay attention and to focus. If by taking notes you miss what is being said or drawn or you stop thinking about what you are reading, then stop taking notes. Study the topical outline and course syllabus before each class to gauge how far ahead to read the text before each class. If you are seeing, hearing or thinking about something that is in the text during lecture for the first time; you are not adequately preparing for class. The better prepared you are for a lecture, the more you will get out of it. It is up to you to make time spent in lecture effective for your own learning. Reaching the level of comprehension is your goal for doing work. Your study should be focused on lifting you up to a higher level of learning so you can do well in the course.

It does take a lot of work, effort and time to learn organic chemistry. But you need to know and believe that you are fully capable of doing well in the course and you need to remember that it is not your effort that is being evaluated. If you do not think you are doing as well as you can, please come in for assistance.

Electronic Devices: The use of electronic devices (iPads, laptops, cell phones, calculators, pages, etc.) is not allowed during tests or the final exam. Please put your electronic devices on silent/vibrate during lecture. Please turn them OFF during exams.

OAKS: The syllabus, supplemental study guides, review material, answer keys, assignments, old tests (warning: tests prior to Spring 2017 are based on the use of a different text), lecture handouts and other material for this course are all posted on OAKS. You can post or respond to questions on the course OAKS discussion page, and send email questions to the instructor or other students in the class through OAKS. Suggestions for OAKS content are always welcome.

Schedule (Subject to change as announced in class.)

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