**Organic Chemistry II**

**CHEM 2452**

**Summer 2016**

**Instructor** Dr. Teresa Cowger

**Office:** SGM. Location Pending.

**Contact info:** teresa.cowger@du.edu

**Class Lectures:** MTWRF 9:20-11:20; Olin Hall 103

**Final Exam:** August 11, 9:20-11:20; Olin Hall 103

**REQUIRED COURSE ITEMS**

**Textbook:** Marc Loudon, *Organic Chemistry*, 6th ed. (required). A molecular modeling kit and the solutions manual for the Loudon book are recommended.

**Pre/Corequisites:** To enroll in this course, you must have received a passing grade in General Chemistry and its lab as well as Organic Chemistry I and its lab. Students without this prerequisite wishing to enroll must contact Dr. Cowger. CHEM 2652 is a 1-credit laboratory course that is graded independently from CHEM 2452. Students missing the first lab session may be dropped from both the lecture and laboratory courses.

**CLASS MEETINGS.** I will highlight important concepts from your readings during lectures. I will stop periodically and ask you to answer questions. I will be using lecture to both provide explanation for the concepts and examples of how to solve the chemical problems related to those concepts. The pace will be approximately 3 chapters per week. While there is no strict policy regarding attendance, it is DEEPLY in your interest to attend every class. I will occasionally pass out worksheets for credit which are not able to be made up on days not attended.

**EXAMS.** There will be two 50 minute exams and a two-hour, cumulative final exam. Dates for these exams are every Friday and the Final Exam is August 11. . **NO MAKE-UP EXAMS WILL BE OFFERED**. There is one exception to this policy. If you will be out of town for a University-sanctioned function (e.g., athletic team or music group), you are responsible for making arrangements with Dr. Cowger at least one week in advance to complete the exam prior to the scheduled date. If you miss an exam, then your final exam will be counted twice to replace the missed exam.For all students, your worst exam grade will be replaced by the final exam grade, provided that the final exam is higher.

**GRADES.** At the end of the quarter, your final grade will be determined according to your performance on the exams and online homework. Your final grade will be determined on a maximum of 500 points with the following components:

Component Points

Hour Exams (100 points each) 45%

Final Exam 35%

In class assignments 20%

Your final grade will be determined by the following scale:

**Letter**

**A**

**A-**

**B+**

**B**

**B-**

**C+**

**C**

**C-**

**D+**

**D**

**D-**

**Percentage**

**minimum**

**94**

**90**

**87**

**84**

**80**

**74**

**70**

**65**

**61**

**57**

**55**

**A**

**B**

**D**

**C**

The values listed in the table are the guaranteed minimum values. So, if your average is 90, you will receive an A- for the course. Complaints on grading and/or recording errors should be made within two weeks of each exam or assignment, so it is advisable to check on the course website (canvas.du.edu) frequently for grading accuracy.

**CELLULAR PHONE AND LAPTOP POLICY.** I respect the need for each individual to stay in contact with family and friends. The use of cellular phones and pagers, however, is disrupting to the learning environment. Thus, I request that the ringers of all cellular phones (or any devices) be muted during class. If an emergency arises and you need to make a call on your phone, I request that you quietly leave the room and conduct your conversation out in the hallway. Laptops can also be quite disrupting in class; therefore, ONLY laptops used for taking notes will be allowed. If you use your laptop, I might request that a copy of your notes be emailed to me at the end of class.

Pro-tip: Organic chemistry requires the understanding of STRUCTURE and MECHANISMS. Hand-drawing is the optimal way learn these ideas and record notes.

**LECTURE AND TESTING ACCOMODATIONS.** I will make every effort to accommodate students diagnosed with a learning disability. I will do this in complete confidence. I do, however, request that any student requiring these accommodations inform me the first week of class either in person or via email. For further information, please see the University Disability Services’ website at <http://www.du.edu/disability/dsp/index.html>.

**RELIGIOUS ACCOMODATIONS.** It is University policy to grant students excused absences from class or other organized activities for the observance of religious holy days, unless the accommodation would create an undue hardship.  I will do my best to accommodate your requests if you make arrangement with me *in advance* of your absence. Please examine the course syllabus, including the tentative schedule, for any potential conflicts with holy days and notify me prior to the end of the second week of classes of conflicts that may require your absence from class and/or prevent you from completing an assignment. I have included the link to the Religious Accommodations Policy for your reference. More information can be found at <http://www.du.edu/studentlife/religiouslife/DU_religious_accommodations_policy.html>.

**ACADEMIC DISHONESTY.** While I advocate collaborative learning and teamwork, I also firmly believe that each individual should maintain the highest ethical standards in all of life’s endeavors. As such, I support and will strictly enforce the Honor Code of the University of Denver. For your reference, I have included the link to the Honor Code Student Conduct Policy and Procedures at <http://www.du.edu/studentlife/studentconduct/honor_code_2013-2014.pdf>. If a student is caught cheating, the student will receive a grade of zero for that assignment/quiz/exam and a report will be filed with the Student Conduct Office. A repeat offence will result in failure of the course.

**\*\*Please note\*\*** This class moves VERY rapidly in the summer. There are no omissions in material compared to the regular quarters, so attendance in lecture is in your best interest. Please turn off all cell phones (or other noisy devices) in lectures and exams. I will expect you to be engaged during class and to participate in discussion. Doing so will maximize your understanding of the material and performance on the assignments and exams.

**Tentative Schedule**

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| **Reading  Sections** | **Problems  All from lecture, within sections plus…** |
| **Week 1** | **Chapter 10: Alcohol/Thiol Chemistry** | 1-6, 8, 9 | 35, 36, 39, 43, 45, 54 |
| **Chapter 11: Ethers, Epoxides, Glycols, Sulfides** | 1-5, 7, 9 | 45, 46, 60-62 |
| **Chapter 14: Alkynes** | 1-8 | 26-34, 36, 37, 43 |
| **Week 2** | **Chapter 12: IR/MS** | 1-6 | 26, 27, 32, 33-37 |
| **Chapter 13: NMR** | 1-7, 9, 10 | 39-41, 44-45, 49-50 |
| **Chapter 15: Dienes, Resonance, and Aromaticity** | 1-4, 6, 7 | 38, 38, 42, 43, 69, 73 |
| **Week 3** | **Chapter 16: Benzene Chemistry** | 1-6 | 32-33, 40, 45, 57 |
| **Chapter 17: Allylic and Benzylic Chemistry** | 1-5 | 18, 19, 22, 24, 26, 37, 38 |
| **Chapter 18: Aryl/Vinyl Halides, Phenols, and Transition Metal Catalysis** | 1-10 | 44-46, 64, 65 |