COURSE TITLE Organic Chemistry I

DATES, TIMES, AND LOCATION OF COURSE MEETING
MWF 10-10:50am, Rita Liddy Hollings Science Center 317 (Section 1, 10312)
MWF 11-11:50am, Rita Liddy Hollings Science Center 317 (Section 2, 10313)

NAME OF INSTRUCTOR
Dr. Timothy Barker
Office: 312 School of Science and Math Building (SSMB)
Phone: (843)953-7182
Email: barkertj@cofc.edu (this is the best way to contact me)

OFFICE HOURS
(in 312 SSMB) Monday 12-1 PM, Tuesday 11-noon, Friday 1:30-2:30 PM or by appointment

TEXTS

Optional:

COURSE OUTLINE
Chapter 1: A review of General Chemistry: Electrons, Bonds and Molecular Properties
Chapter 2: Molecular Representations
Chapter 3: Acids and Bases
Chapter 4: Alkanes and Cycloalkanes
Chapter 5: Stereoisomerism
Chapter 6: Chemical Reactivity and Mechanisms
Chapter 7: Substitution Reactions
Chapter 8: Alkenes Structure and Preparation via Elimination Reactions
Chapter 9: Addition Reactions of Alkenes
Chapter 10: Alkynes
Chapter 11: Radical Reactions
Chapter 12: Synthesis
Chapter 13: Alcohols and Phenols

STUDENT LEARNING OUTCOMES
By the end of this course, students will be able to:

- Interpret and analyze structural formula and resonance characteristics of common functional groups
- Draw and interpret general features of curved arrow notations that illustrate mechanistic processes for common organic reactions
Use IUPAC and common nomenclature for alkanes, alkenes, alkynes, alkyl halides and alcohols
Draw and interpret three dimensional structures for all types of isomers of organic compounds
Define and use fundamental concepts associated with acid-base, thermodynamic, kinetic and structural theories as they relate to processes associated with organic chemistry
Evaluate knowledge and principles about organic reactions and reactivities to make reasonable predictions about likely outcomes when presented with related chemistry
Deduce, design and evaluate retrosynthetic schemes including functional group transformations

TESTS AND QUIZZES
Exams:
Midterm 1  Wednesday September 11th
Midterm 2  Wednesday October 2nd
Midterm 3  Friday October 25th
Midterm 4  Wednesday November 20th
No late or make-up exams will be given.

Quizzes:
There are no scheduled quizzes, but I reserve the right to give pop quizzes if attendance is poor or I feel more regular feedback and evaluation is needed after the first midterm exam. If quizzes are given their score will become 10% of the grade for the upcoming midterm exam.

Final Exam:
The ACS standardized final exam is cumulative and will be held on Wednesday December 11th from 8-11 AM for the 10 AM class.
The ACS standardized final exam is cumulative and will be held on Wednesday December 4th from 8-11 AM for the 11 AM class.

Homework:
All homework assignments are due at the beginning of class on Monday. You are encouraged to freely discuss and compare your homework answers with your peers. Homework will be graded based on completion using the check minus, check system. A check minus designation indicates 2 or more problems were not attempted and will receive ½ credit, assuming at least ½ of the assigned problems were attempted. A check designation means all problems were attempted and will receive full credit for the assignment. Assignments will be posted on Tuesday afternoon the week prior to when they are due. No late homework will be accepted.

Reading the course textbook is encouraged to supplement material discussed in class.

GRADING  Final course grades will be assigned based on the following distribution:
Midterms – 17.5% each ( quizzes, if applicable will be 10% of the midterm grade for the following midterm)
Final Exam – 20%
Homework – 10% (1% each)

Your score on the ACS final can replace your lowest midterm grade if this adjustment will be beneficial to your overall grade if the class has a response rate of greater than 75% for the Online Course Evaluations.

Tentative Grading Scale:
A  91-100
A- 89-90.99
B+ 87-88.99
B  78-86.99
B- 76-77.99
C+ 74-75.99
C  66-73.99
C- 64-65.99
D  60-63.99
F below 60

POLICY ON:
Attendance: Students will work in small groups during portions of the lecture to provide students an opportunity to work together solving problems and discussing the class material. Material will be covered in class that may not be presented in the textbook so attendance is encouraged and mandatory.
Late Work: Homework assignments are due the day assigned. Late homework assignments will receive no credit.
Extensions: Extensions will only be granted when the student has contacted the Dean’s office because of extenuating circumstances that prevent the student from attending class or completing assignments on time.
Electronic Devices in Class: You are expected to turn off or silence your cellphone before the beginning of class. Please be courteous of your fellow classmates and use any other electronic devices responsibly during class so as not to distract other students and degrade the classroom experience for everyone.
SNAP: If you are in need of any special accommodations for this course, please see the Student Guide to SNAP Services for more information: http://disabilityservices.cofc.edu/documents/student-guide.pdf
The Center for Disability Services should provide you with a Professor Notification Letter that should be shared with me during office hours, preferably early in the semester and at least one week before the first exam.
Academic Dishonesty and Plagiarism: Academic honesty is strictly enforced on quizzes and exams. You are responsible for reading, understanding and adhering to the College of Charleston Student Honor Code Policy, please see: http://studentaffairs.cofc.edu/honor-system/index.php
All incidents of suspected academic dishonesty will be reported to the Honor Board. Students found responsible by the Honor Board for academic dishonesty will receive a XF grade.

The Department of Chemistry and Biochemistry has a Facebook page (Chem and BioChem at the College of Charleston) to announce opportunities for Chemistry and Biochemistry students that you may want to check out (but not during class).

The syllabus is subject to change with appropriate notice.