

Organic Chemistry I – Course Overview

Course Instructor	Jonathan R. Scheerer Integrated Science Center 2045 (office)	jrscheerer@wm.edu (757) 221-2551								
Meetings, Review workshops	Class Lecture time: MWF 10AM (ISC1127) Office hours: Wednesday 11:30AM–12:30PM; Friday 1:30–2:45PM Evening review sessions: 8:30–~10PM preceding exam or quiz. Office hours may also be arranged by appointment. <i>Don't hesitate to contact me to schedule a time to meet!</i>									
Course Objectives	The objective of the first semester organic chemistry (Chemistry 206) is to understand the structure, bonding, and reactivity of carbon (the essential element of living systems) and carbon-containing molecules. The involvement of other elements (<i>e.g.</i> , N, O, H) of particular significance are necessarily included. Bonding and structure will enable exploration of the chemistry and reactivity (reactions) of different functional groups. Organic spectroscopy, or how to analyze and visualize organic molecules, is additional topic that will be explored.									
Course Evaluation: Exams	<table> <tr> <td>Hour exams (3 x 125 pts):*</td> <td>375 pts (39–59%)</td> </tr> <tr> <td>Final exam:*</td> <td>250 pts (20–39%)</td> </tr> <tr> <td>Problem Sets / Quizzes:</td> <td>135 pts (21%)</td> </tr> <tr> <td>Total Points*</td> <td>635 points</td> </tr> </table> <p>*Weighting Scheme: I want to grade you on your best effort. Accordingly, I will adhere to the following plan: at the completion of the course, your lowest mean-relative exam performance (125 points) will be dropped. This dropped exam grade may be one of your hour exams or one-half of your final. You cannot drop problem sets or quizzes. This plan provides you the opportunity to have the final exam count between ~20% and ~40% of your final grade. Approximate grade distributions for each exam will be announced in class.</p> <p>There will be three in-class hour-long exams, one administered roughly every four weeks. Exams will focus on recent topics. With advanced notice, you may reschedule a mid-term exam for a school-related absence. Contact me early. If you miss an exam for another reason (<i>e.g.</i>, illness), the missed exam can serve as your dropped exam. There will also be a three-hour comprehensive final exam.</p>		Hour exams (3 x 125 pts):*	375 pts (39–59%)	Final exam:*	250 pts (20–39%)	Problem Sets / Quizzes:	135 pts (21%)	Total Points*	635 points
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Problem Sets / Quizzes:	Problem sets will be available one week in advance and will be due by the start of class on the indicated day, generally Fridays. Problem sets will be completed online through <i>Sapling Learning</i> (<i>see more info below</i>). I will post additional practice problems on Sapling. Each problem set will be worth 15 points. No late problem sets will be accepted. In class 10-minute quizzes (3) will be given periodically throughout the term. There are no makeup quizzes. Each quiz will be scaled to 15 points . In total, 7 PS (7 x 15 = 105 pts), 3 quizzes (45 pts) = 10 assignments. You can drop your lowest homework or quiz score; PS/quiz total is 135 pts (21% of your grade).									

Chemistry 206

Spring Term 2019

Grading

Final grades will be determined by the sum of your points throughout the semester by the following scale:

A-/A	87–100% (>90 A)
B-/B/B+	75–86.9% (>78 B; >84 B+)
C-/C/C+	63–74.9% (>66 C; >72 C+)

Class Attendance

Due to exam curving these thresholds may go down; they will not go up. In accord with College policy, class attendance is expected. See undergraduate catalog for more information. Please notify me of any absences by email.

Disability Services

Students with disabilities must contact disability services in the dean of students office.

Honor Code

All students are bound by the Honor Code. Incidences of cheating will be reported to the Honor System. See the student handbook for more information on the Honor Code.

Textbooks:

Strongly Recommended: Organic Chemistry as a second language. (First semester topics) Klein. 4th edition is current. It is hard to find earlier Eds.
Strongly Recommended: Organic Chemistry 8th Edition. Brown, Foote, Iverson, Anslyn. *Student Study Guide and Solutions Manual for Organic Chemistry, 8th Ed.* Brown, Foote, Iverson, Anslyn.
You may also use the older 6th or 7th Ed, which is virtually unchanged in content (but graphics are somewhat altered).

Online Homework

Homework and additional practice problems will be completed Sapling learning (<http://www.saplinglearning.com>). You can try this out for ~14 days (until add/drop) and you will then need to pay the access fee (~\$42).

- 1 Go to www.saplinglearning.com/login to create an account. If you already have a Macmillan Learning account you can log in with your existing credentials and skip to step 3.
 - Create your password and set all three security questions.
 - Start typing in your institution to select from the options that appears in the Primary Institution or School name field. If you institution does not appear you can add it by typing in the full name.
 - Accept the terms of use and click "Sign Up".
 - Check your email for the confirmation link to complete your registration and return to the login page.
- 2 Set your institution by searching using your institution's full name and selecting the appropriate option from the menu that appears.
- 3 Under Enroll in a new course, you should see Courses at [Your College]. Click to expand this list and see courses arranged by subject. Click on a subject to see the terms that courses are available.
- 4 Click on the term to expand the menu further (note that Semester 1 refers to the first course in a sequence and not necessarily the first term of the school year).
- 5 Once the menus are fully expanded, you'll see a link to a specific course. If this is indeed the course you'd like to register for, click the link.
- 6 Review the [system requirements](#) and confirm that Flash is updated and enabled in your browser.

Model Kits:

Model kits are *strongly* recommended and may be used on exams.

Extra Credit Opportunities

Several opportunities exist for extra credit (and you should take full advantage of them). First, you may turn in the info sheet (+3). You can attend any organic departmental seminar (which occur on Fridays at 3 pm). I will announce these lecture opportunities in class and/or on blackboard. You will earn 3 pts for attending these. Other opportunities may be possible throughout the semester.

Everybody likes
BACON,
another extra credit
opportunity
(see handout/bb)

What does BACON stand for? **B**iology **A**nd **C**hemistry **O**nline **N**otes
What does BACON teach? BACON illustrates that organic chemistry is all
around them. BACON connects organic chemistry to things like biology,
real world applications, and even pop culture. Watch the video embedded
here to learn more about BACON: <https://learnbacon.com/>
Is BACON difficult for students? BACON is designed to be a low stress and
fun way for students to gain a greater appreciation for organic chemistry
and the remarkable impact it has on our everyday lives. I will be advising
the class (see Bacon info sheet) when a BACON tutorial aligns with what
we are learning in class. Signing up for BACON and completion of each
tutorial (6 for orgo I) will give you insight and 2 pt EC each. There is a
small cost (\$5) for administration of the program.

Pin# **WM206JRS2019**

Extra Credit summary:

Info + seminars (1 or 2) + 6 Bacon = 18-21 points = ~3% of grade.