

Organic chemistry I – CHEM340 – summer 2018

June 4th – 29th, 2018

MTWRF 9:00am – 11:30am

SH 3107

Instructor:

Dr. Lawrence Hill

Office: STTr 10

Phone: 270-745-2136

Email: lawrence.hill@wku.edu (I generally respond by close of the following business day)

Office hours: Monday and Friday from 12:30 – 1:30 pm and by appointment

Course materials:

Required: Solomons Organic Chemistry, 11th Edition; Sapling subscription

Recommended: ACS Organic Chemistry Exam Study Guide; portable model kit

Prerequisites: CHEM 222-223 (C or better); **Corequisite:** CHEM 341

Course description:

The general principles of organic chemistry including chapters 1 – 9 of Solomons Organic Chemistry, 11th Edition. Students will learn to predict the structure of organic molecules and suggest reasonable reaction mechanisms. We will emphasize the language of organic chemistry including organic nomenclature, drawing structural representations, and curved arrow notation.

Course learning objectives:

By the end of this course, students will learn to:

1. Use the vocabulary of organic chemistry. (nomenclature)
2. Draw correct structural representations of organic molecules. (structure)
3. Write reasonable mechanisms and predict products with correct stereochemistry. (reactions)

Grading:

Your grade will be determined based on 500 possible points in this course. See below about dropped grades.

- **Exams: keep only your best three regular exams (100 points each) = 300 points.**
- You will have four regular exams during the semester at your regularly scheduled class time. Each exam is worth 100 points, and you keep your best three exam grades. If you miss an exam, then you earn a zero for that exam. Exam questions come from the learning objectives posted to Blackboard. Many exam questions are similar to end-of-chapter textbook problems, in-chapter textbook problems, and Sapling problems.
- **Final exam = 100 points.**
We will use a standardized ACS exam designed for the first semester of organic chemistry. You are required to take the final exam and it cannot be dropped from your grade.
- **Quizzes: keep only your best five quizzes (10 points each) = 50 points.**
- You will have a minimum of seven quizzes throughout the semester, and you keep your best five quiz grades. Each quiz is worth 10 points. Quizzes will take place in class and questions will be *very similar to the in-chapter problems* in the text.
- **Sapling practice = 50 points.**
Each chapter will have assigned Sapling problems with an assigned due date for completion. You will have unlimited attempts to answer the homework problems. Use these problems and the associated feedback to reinforce concepts learned from your reading. Additional, ungraded, practice problems will be available in Sapling for your use.
- **Letter grade scale:**
You should plan on the following assignment of letter grades. I reserve the right to change the grading scale, but I will never make the grading scale more difficult than shown below.

A = (100 – 88%), B = (76 – 87%), C = (64 – 75%), D = (50 – 63%), F = (0 – 49%)

There are **NO MAKE-UP EXAMS** in this class without **prior** agreement from the instructor. If you miss an exam you will earn a zero for that exam, and you keep only your best three regular exam grades. If you miss more than one regular exam for university-approved reasons, then you may take an incomplete for this course. **Both** missed exams must be properly documented for the grade of incomplete to be approved. The final exam is weighted equally with regular exams. All exams are cumulative.

There are **NO MAKE-UP QUIZZES** in this class without **prior** agreement from the instructor. If you miss a quiz you will earn a zero for that quiz, and you keep only your best five quiz grades. A minimum of seven quizzes will be given during the course. You can only benefit from taking more quizzes, since each quiz is another chance to improve your grade.

There are **NO EXTENSIONS FOR SAPLING DUE DATES**.

Some tips for succeeding in this course:

- *Use the study guides* posted on Blackboard to help focus your assigned reading. Lectures and exam questions come from these guides. These study guides are too long to be helpful if you only use them right before the exam, so use them to guide your routine studying.
- *Allot regular time* for studying the material. Immersion in the subject is important for success. Cramming will not work for this course. Remember that everything is cumulative in this course; review previous chapters when you recognize that you don't remember how to do something used in the current chapter.
- *Prepare for class* by keeping up with the assigned reading and working Sapling or in-chapter problems. Lectures will be much more beneficial to you if you have some familiarity with the material and are ready to ask questions in class.
- *Ace the quizzes!* Read the chapter and work the in-chapter problems. Set aside time later in the day to re-work any problems you answer incorrectly, even if you understand what you did wrong. Repeat until you can solve each problem without any mistakes. It is important to keep revisiting problems until you can solve them on a blank sheet of paper since this simulates testing conditions.
- *Probably the most important – make an effort to enjoy the material.* Being calm or happy facilitates learning. Search for the following phrase online if you have any doubts: “how stress affects memory and learning.” Read about how stress affects learning.
- *Ask questions* and speak up if you are confused. Your peers will thank you for helping them understand.

Students with disabilities:

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX Discrimination and Harassment

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at

<https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf>

and Discrimination and Harassment Policy (#0.2040) at

https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf.

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and **MUST** report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's [Counseling and Testing Center](#) at 270-745-3159.

Attendance:

Please show up on time, stay the entire class period, and wait until class is dismissed to pack your belongings. Please leave quietly and respectfully if necessary. Attendance is not graded, but there are no make-up quizzes or exams without prior instructor approval. I strongly recommend attending every lecture.

Technology (e.g., phones, computers, tablets)

Use of technology must be approved by the instructor **prior to the start of class**. For example: if you are expecting a truly urgent phone call, you must approach me in person before class and tell me that you may need to leave to take an important call. I will ask you to put your phone on vibrate and sit near the door in case you need to leave. Otherwise, phones must be off before coming to class. Computers and tablets are generally not allowed. Texting, typing, or other distractions are not allowed during class.

Acceptable behavior:

You are expected to prepare for class, interact with your peers, attend class, ask relevant questions, participate in the guided discussion, and be a good citizen. Any other behavior is likely to be unacceptable.

Academic dishonesty (<https://www.wku.edu/handbook/academic-dishonesty.php/>):

*“Students who commit any act of academic dishonesty may receive from the instructor a failing grade in that portion of the course work in which the act is detected or **a failing grade in a course without possibility of withdrawal.**”*

Changes to the syllabus

I reserve the right to modify the syllabus throughout the semester. I will inform you of any changes.

Tentative class schedule. Updates to this schedule will be posted on Blackboard during the semester.

Date	Day	Chapter	Graded assignments	Reading before class
4-Jun	Monday	1	---	Through 1.12
5-Jun	Tuesday	1/2	---	Through 2.6
6-Jun	Wednesday	2	Quiz 1	Finish chapter 2
7-Jun	Thursday	3	Quiz 2	Through 3.10
8-Jun	Friday	3	---	Finish chapter 3
11-Jun	Monday	recap	Exam 1 (chapters 1 & 2)	---
12-Jun	Tuesday	4	Quiz 3	Through 4.12
13-Jun	Wednesday	4/5	---	Through 5.7
14-Jun	Thursday	5	Quiz 4	Through 5.12
15-Jun	Friday	5/6	---	Through 6.8
18-Jun	Monday	recap	Exam 2 (chapters 3 & 4)	---
19-Jun	Tuesday	6	Quiz 5	Through 6.14
20-Jun	Wednesday	6	---	Finish chapter 6
21-Jun	Thursday	7	Quiz 6	Through 7.9
22-Jun	Friday	7	---	Finish chapter 7
25-Jun	Monday	recap	Exam 3 (chapters 5 & 6)	---
26-Jun	Tuesday	8	Quiz 7	Through 8.10
27-Jun	Wednesday	8	Quiz 8	Finish chapter 8
28-Jun	Thursday	recap	Exam 4 (chapters 7 & 8)	---
29-Jun	Friday	---	Cumulative final exam	---