

CHEM 272 – ORGANIC CHEMISTRY I - SYLLABUS

Instructor: Dr. Jakub Hyvl

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Office: Bilger Addition 404

Office hours: M, W 10:30am-11:00am, or by appointment

Catalog info: Organic Chemistry I (CHEM 272) is a 3-credit hour course

CRN: 73926 CHEM 272 Section 001 (in-person mode)

Prerequisite: a grade of "C" (not "C-") or better in CHEM 162 is required

Time: Lecture: MWF 9:30-10:20 am – in-person

Recitations: Tu 05:30-07:20pm – in-person; recitations are mandatory and it will be used for practice and exams

Room: Bilger Hall 152 (in-person)

COVID-related modifications in Syllabus:

Syllabus or schedule might be modified/updated due to COVID-related events/policies (campus closure, stay-at-home order, update of UH policies etc.)

Student learning outcomes

Student learning outcomes can be found on the Chemistry Department website: <http://manoa.hawaii.edu/chem/academics/courses/>

Course goals: The course is designed so that the student can develop a basic understanding of organic chemistry reactions and spectroscopy thereby laying a foundation for further study in the field and closely related disciplines.

Learning Emporium:

Look online for specific Chemistry Tutoring Schedule (online over Zoom):

<http://uhnatsci.org/emporium/tutorschedules.php>

Learning Assistants:

Kauai Paule <kpaule20@hawaii.edu>

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Brandon Fong <bfong32@hawaii.edu> ,

Ian Fatzinger <ianmf@hawaii.edu> ,

Required Materials:

- 1) **online access** (for online mode also if applicable: primary device: desktop/laptop, secondary device: laptop/tablet/iPad)
- 2) **textbook:** Organic Chemistry, 4th Edition, David Klein; hardcopy or online

3) **access code** to WileyPLUS

for 2) & 3) you have **two options** (both available at UH Manoa Bookstore):

- a) printed version & access code (to WileyPLUS)
Single term access code with FULL print loose-leaf: ISBN 9781119761105
- b) access code (to WileyPLUS) only
Single term access code: ISBN 9781119760986
Multi-semester access code: ISBN 9781119659532

Wiley PLUS includes e-textbook and online homework system (follow instructions in the Wiley PLUS flyer at Laulima>Resources)

4) **iClicker for in-class participation credit.** PLEASE REFER TO iCLICKER REGISTRATION INSTRUCTIONS FOR MORE DETAILS.5) *Recommended:* A Molecular Model Kit for OChem: ISBN: 9785138210002

Lectures: Lectures will be in-person. In exceptional cases, the lecture can be in online synchronous mode (over Zoom). Lecture handouts (slides) will be available in Laulima>resources.

Point

Breakdown:

Exams/HW	Points
2 nd week exam/quiz (prerequisite classes – Gen Chem)	35
2 midterm exams (200 pts each)	400
Online Homework (HW for each chapter, 2x3=6pts, 11 chapters) (60pts is maximum, allowed to miss 2 HWs)	60
Participation with iClicker in Recitation (2pts per recitation except exams, 20pts is maximum)	20
Participation with iClicker in Class (1p per class, except 08/21(M), iClicker will be tested on 08/21), 30 pts is maximum)	30
Comprehensive Final Exam	300
Total (base points)	845

Homework: We will be using the WileyPLUS system for our online assignments. To access the homework on-line, follow instructions in the Wiley PLUS flyer at Laulima>Resources. You will need an access code from Wiley to access WileyPLUS; the code comes with new book, or can be purchased separately in UHM Bookstore (*vide supra*). In WileyPlus, you need to register with your **full name as it appears in Laulima, otherwise you will not receive your pts.** Homework is due on various days and times; you are responsible for submitting your homework on time. **No late homework will be accepted and NO EXTENSIONS ON DUE DATES WILL**

BE GIVEN! Points will be **normalized** to the corresponding values (e.g., 3pts for a ½ of chapter) since Wiley Plus's setting is limited. There is an abundance of homework problems to practice for each chapter.

Exams

All exams (except Final) will be taken during the recitation. The exams will be given only on the assigned day and time (see the schedule attached for the exact dates of exams). **There will be only one makeup exam for each midterm. Only excused medical or other relevant (military, athletes, school-related trips etc.) absences will allow students to take this makeup midterm the following week (during recitation, the same time).** These students will need to send a request via email and will need to provide some sort of note (doctor's note, court's note, etc.). The approval is always at the discretion of the professor, regardless of the excuse. Otherwise, no credit will be given. You are allowed to use molecular model kits, non-programable calculators and the periodic table. Have your UH ID available. Instructor reserve the right to take a copy of the exam after grading. To correct any grading errors and claim points, the exams need to be written by **non-erasable pens**. Also, the right to regrade the entire exam is reserved, which may result in either an increase or a decrease of the points. The corrections need to be done **within two weeks** after the exam was taken. The instructor reserves the right to change seating order of the students during the exam.

Online mode (relevant only in case that UHM would switch to online instruction):

Please check your time zone if you are off the islands, Hawaii use HST (Hawaii standard time). The exams will be proctored over Zoom. You will need to use two devices with cameras capable of joining Zoom meeting. Without the web cameras and participation in Zoom during the exam, you won't be allowed to take the exam and it will result in zero points from the exam. The Zoom meeting might or might not be recorded. The first device will be laptop/desktop where you will take your exam (camera recording you from the front, also you will share your screen). The second device (smartphone, iPad, tablet or another computer) will be recording you from the side covering your desk, hands, etc. You are not allowed to look at your secondary device. Detailed instructions will be emailed before the exam; failure to comply with the provided instructions will result in zero points from the exam. Exams will be in the form of a written test, typically you will need to draw a structure/scheme as your answer. The instructor reserves the right to select students for an oral examination if there is a reasonable doubt about the academic integrity of the written exam(s). Any corrections need to be done **within two weeks** after the exam was taken.

2nd week exam This exam/quiz will be worth of 35pts and it will cover General Chemistry, which is a prerequisite class to Organic Chemistry I. It will be multiple-choice exam. Time limit is 110min.

Midterms

There will be two 200-point midterm exams. The exams will cover everything from the first day of class with an emphasis on the material covered since the previous

exam (usually, but not limited to 3-4 chapters). This will not be a multiple-choice exam. Time limit is 50min.

Final Exam: There will be a 300-point cumulative final exam given at the end of the course (for day and time check the schedule). Make-up exams will not be given and the final exam will be given only on the assigned day and time. The final exam will not be given back after grading. This will not be a multiple-choice exam. Time limit is 100min.

Participation with iClicker:

The points will be given for participation, not attendance. Participation credit will be assessed starting the first week except the first day (iClicker will be just tested on the first day). You are allowed to miss ~3 recitations and ~13 classes (excluding the first day) without point penalty. The iClicker, iClicker 2, or any personal device such as a cell phone, laptop, or tablet will be used to assess in class attendance and participation during lectures and recitations. Questions answered in lecture will not be graded for accuracy but rather for participation and engagement in the course. Please see the registration instructions on Lualima for how to correctly register your iClicker and sync your account to Lualima. In online mode, the camera needs to be turned on.

Grading: The tentative grading scale for the class is as follows*:

Overall %	Grade Earned
95.0% or above	A+
94.99-90.00%	A
89.99-85.00%	A-
84.99-80.00%	B+
79.99-75.00%	B
74.99-70.00%	B-
69.99-65.00%	C+
64.99-60.00%	C
59.99-55.00%	C-
54.99-50.00%	D+
49.99-35.00%	D
34.99-30.00%	D-
29.99% or below	F

*The scale **may or may not** be adjusted at the end of the semester, and is up to the discretion of the professor.

Instructor Methods & Course Policies:

Students should **read the textbook** for the upcoming lecture material prior to coming to class, **as well as take many hand-written notes in lecture to enhance learning**. Learning Emporium has knowledgeable people willing to help with CHEM 272/3 as well as other math and science courses.

Students are responsible for keeping track of their own points along with the instructor. It is essential that students retain all returned assignments and course information. Late work will not be accepted; students must turn in assignments at assigned dates and times only. Every student is accountable for all work missed. Instructors are under no obligation to make special arrangements for students who are absent.

Attendance: You are required to attend the lecture section for which you are enrolled. The instructor reserves the right to request student ID verification at any time during this course. You may be reported as 'no show' if you miss the first week of the semester. **Your attendance will be primarily monitored through iClicker and Weekly Engagement in Lulima.**

Misconduct: Any act of plagiarism, or any other attempt to defraud the academic process will meet with reprimand and possible dismissal from the course without credit. **Cheating** in any form on an assignment/exam, at a minimum, result in a zero grade on that assignment/exam and the filing of an Academic Dishonesty Report Form describing the incident with the Vice President of Student Affairs. Prior or future cheating incidents anywhere in the university could result in expulsion. **Cheating includes:** the copying or exchanging or sharing of information during exams or quizzes, using banned materials, information, or devices during exams/quizzes, plagiarism. Altering the graded exam and claiming points will result in zero points from the exam which will be part of the final grade. Exact reproduction of written materials from other students on any lab report will result in all parties receiving a zero. An on-line version of the Academic Honesty Policy for the university can be found at:

http://www.studentaffairs.manoa.hawaii.edu/policies/conduct_code/

Special accommodations policy - KOKUA program:

If you have a disability and related access needs, please contact the KOKUA program (UH Disabled Student Services Office) at 956-7511, KOKUA@hawaii.edu, or go to Room 013 in the Queen Lili'uokalani Center for Student Services. Please know that I will work with you and KOKUA to meet your access needs based on disability documentation.

Title IX <https://manoa.hawaii.edu/titleix/>

ADA ADA compliance, please contact me if you require any material in an alternate format

Basic Needs "Basic needs include food and housing, childcare, mental health, financial resources and transportation, among others. Student basic needs security is critical

for ensuring strong academic performance, persistence and graduation and overall student well-being. If you or someone you know are experiencing basic needs insecurity, please see the following resources: [UH System Basic Needs](#).

Useful Tips: Organic chemistry is not hard, but it does require a lot of work on the student's behalf. The most important thing you can do to be successful in this course is to attend every class, stay current and keep up with the material. Unfortunately, organic chemistry is a broad field with a lot of new concepts for you to learn. The material comes very fast and there is really not much I can do other than try to explain the material in a simple and understandable fashion. It just isn't possible to cram for organic chemistry on the night before the exam. It is much better to study for one or two hours every day rather than 12 hours over a weekend. It is not easy to absorb all the material in one sitting, and a daily study routine will make comprehension much easier. It will take effort on your part to learn organic chemistry.

Learning organic chemistry is very much like learning a foreign language. You need to learn the vocabulary in terms of names, structures and types of functional groups. You also need to learn the rules of grammar. For example, how an alcohol will react with a halide, etc. Once you learn certain rules, they can be applied to many different reactions. Thus, you can construct chemical sentences. There will be a certain amount of memorization required, however, because of the vastness of the subject, learning general trends and rules will be most helpful.

WORK ALL OF THE PROBLEMS IN THE TEXT AND ANY OTHERS THAT MAY BE ASSIGNED! You are strongly urged to work through the problems as many times as it takes to become proficient with the material. This will take a lot of work on your part, but it will be key to your success in this class.

Suggestions: Read the assigned chapter or sections before coming to class, ask questions, re-write your notes after every class, **DO THE PROBLEMS**, try to understand the problem before looking at the answer, working with partners or small groups can be useful, use your molecular models and utilize my office hours and open-door policy.

If you are having difficulty with this course, come to see me ASAP. If you do not know where to start asking questions, the question that needs answered is "When can I get in to see my instructor?"

Absences: The instructor cannot make accommodations for conflicting work schedules, vacation plans, or any other non-emergency situations. Any medical emergency must be documented by a hand-written doctor's note by a local doctor with a physical address and phone number on the heading of the note. Only excused medical or other relevant (military, athletes, school-related trips, etc.) absences will allow students to take an exam at a later date. Otherwise, no credit will be given.

Tentative Class Schedule:

Week	Dates	Tentative Plan	Notes
1	08/21-08/25	Ch. 1	
2	08/28-09/01	Ch. 1,2	2nd Week Quiz – 08/29 (Tu) 5:30pm
3	09/04-09/08	Ch. 2	Labor Day – 09/04 (M)*
4	09/11-09/15	Ch. 3	
5	09/18-09/22	Ch. 4	
6	09/25-09/29	Ch. 4,5	
7	10/02-10/06	Ch. 5	Exam 1 (Ch 1-4) – 10/03 (Tu) 5:30pm
8	10/09-10/13	Ch. 5,6	
9	10/16-10/20	Ch. 7	
10	10/23-10/27	Ch. 7	
11	10/30-11/03	Ch. 8	
12	11/06-11/10	Ch. 8,9	Veterans' Day - 11/10 (F)*
13	11/13-11/17	Ch. 9	Exam 2 (Ch 5-8) – 11/14 (Tu) 5:30pm
14	11/20-11/24	Ch. 10	Thanksgiving Day – 11/23(Th)*+11/24(F)*
15	11/27-12/01	Ch. 10,11	
16	12/04-12/08	Ch. 11	12/07 (Th) – Last Day of Instruction
17	12/11-12/15	Finals Week	Final Exam - 12/15 (F) 9:45-11:45 am

* non-instructional day