

**CHEM 273 – ORGANIC CHEMISTRY II - SYLLABUS**

Instructor: Dr. Jakub Hyvl

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Office: Bilger Addition 404

Office hours: by appointment and over Zoom; I will be mostly available during the 4<sup>th</sup> hour

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Catalog info: Organic Chemistry II (CHEM 273) is a 3-credit hour course

CRN: 85279 CHEM 273 Section 001

94309 CHEM 273 Section 002

94310 CHEM 273 Section 003

94311 CHEM 273 Section 004

Prerequisite: a grade of "C" (not "C-") or better in CHEM 272 is required

Time: Lecture: MWF 10:30-11:20 am – online synchronous

4<sup>th</sup> hours: Section 1 - T 0430-0520p – in-person (BIL 152) or online

Section 2 - W 0430-0520p – in-person (BIL 152) or online

Section 3 - R 0430-0520p – in-person (BIL 152) or online

Section 4 - F 0430-0520p – in-person (BIL 152) or online

Room: Bilger Hall 152 (only for 4<sup>th</sup> hour)

Hybrid vs Online:

You have two options:

1) hybrid class - MWF – online; 4<sup>th</sup> hour in-person

2) online class (MWF – online; 4<sup>th</sup> hour online; If you choose online format, email me your name and your section by Monday (01/11) (I am taking the course online, my name is ..., my section is...).

**4<sup>th</sup> hour is mandatory and it will be used for practice and exams.**

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>

Others: Teaching Assistant – Christopher Sahlen, [cjsahlen@hawaii.edu](mailto:cjsahlen@hawaii.edu)

Learning Assistant – Kosuke Tsuzuki, [ktsuzuki@hawaii.edu](mailto:ktsuzuki@hawaii.edu)

Wiley Plus Representative – Juliana Tomita, [jntomita@hawaii.edu](mailto:jntomita@hawaii.edu)

**Required Materials:**

- 1) online access, primary device: laptop/desktop, secondary device (if not attending in-person): smart phone/tablet/iPad
- 2) **textbook:** Organic Chemistry, 3<sup>rd</sup> Edition, David Klein; hardcopy or online
- 3) **access code** to WileyPLUS

for 1) & 2) you have **two options** (both available in UH Manoa Bookstore):

- a) printed version & access code (to WileyPLUS) ISBN: 9781119340577
- b) access code (to WileyPLUS) only ISBN: 9781119340515

Wiley PLUS includes e-textbook and online homework system:

[www.wileyplus.com/class/800196](http://www.wileyplus.com/class/800196)

*Recommended:* A Molecular Model Kit for OChem: ISBN: 9785138210002

**Lectures:** Lectures will be synchronous over Zoom. Lectures will also be available in a recorded mode (PowerPoint voice-over lecture) and in handouts. All files will be uploaded to Laulima>resources.

Point

Breakdown:

<b>Exams/HW</b>	<b>Points</b>
2 <sup>nd</sup> week exam	64
3 midterm exams (150 pts each)	450
Online Homework (HW for each chapter, 5pts; one HW is comprehensive, 20pts; other HWs 25pts)	100
4 <sup>th</sup> hour Participation (4p per class except exams, 36pts is max.)	36
<b>Total (base points)</b>	<b>650</b>

**Homework:** We will be using the WileyPLUS system for our online assignments. To access the homework on-line, go to:

[www.wileyplus.com/class/800196](http://www.wileyplus.com/class/800196)

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.**

Please see the flyer on Laulima>Resources for how to correctly register for WileyPLUS class. There is an abundance of homework problems to practice for

each chapter. Points will be **normalized** to the corresponding values (e.g., 5pts for chapter) since Wiley Plus's setting is limited.

**NO EXTENSIONS ON DUE DATES WILL BE GIVEN!**

Exams

All exams will be taken during the 4<sup>th</sup> hour of your section. Please check your time zone if you are off the islands. The exams will be held at 4:30pm HST (Hawaii standard time). 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 no makeups given in this course.** Only excused medical or other relevant (military, athletes, school-related trips etc.) absences will allow students to take the exam with different section. Students taking exam with a different section 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. Calculators are not allowed. Periodic table is allowed. Have your UH ID available. The exam questions and other conditions might not be the same between in-person and online exams. Instructor reserve the right to take a copy of the exam after grading.

In-person:

To correct any grading errors and claim points, the exams needs 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 your points. The corrections need to be done **within two weeks** after the exam was taken.

Online:

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 desktop). The second device (smartphone, iPad, tablet or another computer) will be recording you from the side covering your desk, hands, etc. **Exams will be either 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).—the right to assign an oral exam, which is up to professor's discretion.** Any corrections need to be done **within two weeks** after the exam was taken.

2<sup>nd</sup> week exam This exam will be worth of 64pts and it will cover Organic Chemistry I (roughly chapters 1-11 from the textbook).

**Midterms** There will be three 150-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).

**Final Exam:** There will be no final exam.

**In Class Participation during the 4<sup>th</sup> hour:**

The 4<sup>th</sup> hour class is mandatory. The 4pts will be given for participation, not attendance. Participation credit will be assessed starting the first week and it will exclude weeks with exams (~10 classes). However, the maximum is 36 pts (9 classes). You are allowed to miss one 4<sup>th</sup> hour class without point penalty.

**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 in the end of the semester, and is up to the discretion of the professor. **Since each section, including online and in-person modes, have different exams, I will grade students in their cohorts e.g., Section 1 - online, Section 1 - in-person, etc. This focuses mainly on the final grade and curving if necessary.**

**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 273 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 monitored through Zoom or in class.

**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, and altering the graded exam and claiming points. 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/](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](mailto: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

**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, rewrite 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	01/11-01/15	Ch. 12	
2	01/18-01/22	Ch. 13	01/18 (M) – MLK Day; <b>2<sup>nd</sup> Week Exam (OChem I)</b> <b>Section 1 (01/19), Section 2 (01/20),</b> <b>Section 3, (01/21), Section 4 (01/22)</b>
3	01/25-01/29	Ch. 13/14	
4	02/01-02/05	Ch. 14/15	
5	02/08-02/12	Ch. 15/16	<b>Exam 1 (Ch 12, 13, 14, 15)</b> <b>Section 1 (02/09), Section 2 (02/10),</b> <b>Section 3, (02/11), Section 4 (02/12)</b>
6	02/15-02/19	Ch. 16	02/15 (M) – President's Day
7	02/22-02/26	Ch. 17	
8	03/01-03/05	Ch. 18	
9	03/08-03/12	Ch. 18/19	<b>Exam 2 (Ch 16, 17, 18)</b> <b>Section 1 (03/09), Section 2 (03/10),</b> <b>Section 3, (03/11), Section 4 (03/12)</b>
10	03/15-03/19	-	SPRING RECESS
11	03/22-03/26	Ch. 19	03/26 (F) – Kuhio Day
12	03/29-04/02	Ch. 20	04/02 (F) – Good Friday
13	04/05-04/09	Ch. 21	
14	04/12-04/16	Ch. 21/22	<b>Exam 3 (Ch 19, 20, 21)</b> <b>Section 3, (04/15), Section 4 (04/16)</b>
15	04/19-04/23	Ch. 22	<b>Exam 3 (Ch 19, 20, 21)</b> <b>Section 1 (04/20), Section 2 (04/21)</b>
16	04/26-04/30	Review, Ch. 23+	
17	05/03-05/07	Review, Ch. 23+	05/05 (We) – Last Day of Instruction
18	05/10-05/14	Finals Week	<b>No Final Exam, only HWs, online assignments</b>