

# Introduction to Organic Chemistry

CHEM 42 | CRN: 10095

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Office: Innovation E337

Lecture: MWF 9:40-10:30 Innovation E102

Office Hours: MWF 11-12 or by appointment

Exams: W 6:40-9:40 Billings Ira Allen LH

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## Course Description

Material will include basic principles of organic chemistry including:

- bonding
  - hybridization
  - resonance theory
  - isomerism
  - conformations of cyclic and acyclic alkanes
  - stereoisomerism
  - chirality
  - optical properties of stereoisomers
  - nomenclature, reactions, and mechanisms of functional groups
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## Required Course Materials

### 1) Textbook & Online Component

→ Text

Organic Chemistry: A Short Course; Hart, *et al*; 13<sup>th</sup> Edition (ISBN: 978-1111425562)

→ Online Component

We will be using the Top Hat ([www.tophat.com](http://www.tophat.com)) learning platform for homework quizzes.

You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don't receive this email, you can register by simply visiting our course website: <https://app.tophat.com/e/613224>

\*Our Course Join Code is 613224.

Top Hat may require a paid subscription, and a full breakdown of all subscription options available can be found here: [www.tophat.com/pricing](http://www.tophat.com/pricing).

Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email ([support@tophat.com](mailto:support@tophat.com)), the in app support button, or by calling 1-888-663-5491.

## 2) Lab Materials

You will find all experiments as individual PDFs on your lab section's BB website. You are responsible for printing out each one and bringing it with you to lab.

A carbon-less copy notebook is required. You can find these in the UVM bookstore.

Everyone must wear OSHA approved safety glasses or goggles while in the lab. Students not observing this rule will receive a zero for the experiment, warnings will not be given. Safety eyewear can be purchased at the UVM bookstore or in Discovery's Stockroom.

### \* Recommended Course Materials

Organic Chemistry Molecular Model Kit (these help some people visualize molecules three dimensionally when they have trouble seeing 3D from 2D drawings)

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## Exams

Three mid-semester exams will be given this Spring. These exams will be given on Wednesday evenings during our scheduled exam time (see your lab schedule for this block). The dates for these exams, along with the material you can expect to see on them, are listed on the Lecture Schedule at the back of this document. Your attendance for these exams is mandatory and no make-ups will be given. A grade of zero will be assigned to any student who misses an exam.

If you have an emergency that keeps you from taking your exam on the day it is scheduled, you may use your final exam score to recover the points, percentage wise.

The final exam may only be used to backfill ONE midsemester exam. If you take your exams in the EPC, you

must schedule them for the date listed on this syllabus. Nobody will be allowed to take an exam before or after the scheduled date. Exam dates are announced on day one of the semester so please plan accordingly.

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## Reviews

Review sessions will be held the Sunday before each of the three exams. These sessions represent an opportunity for students to ask questions about homework and class topics in preparation for the exams. If you keep up with the course work on a daily basis you will be best prepared to benefit from these sessions. Attendance is optional but highly recommended for students having difficulty with the course. If you would like to be privy to our reviews, please attend or get notes from a classmate. If you choose to attend, please be courteous and mindful of those who are there for help. Videos, texting, social media, or otherwise distracting activities are not welcome.

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## Quizzes

There will be ten graded quizzes (best 10 out of 11) during the semester. These will occur once we finish a chapter and will be found online, on Top Hat.

Students have five days to complete each quiz. The quizzes take only about 20 min to complete so no extended time will be given, regardless of the excuse. Once the deadline passes, the quiz closes and you get the grade you get for the work you've completed. If you do not take the quiz or forget to submit your work, you will not be able to redo it.

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## Lab

Students enrolled in CHEM 042 must complete the laboratory component of the course. Attendance is mandatory and anyone missing more than two experiments will receive an F for the course. Only the academic dean of your college may assign an incomplete. Your TA will post a more detailed syllabus for lab on Blackboard.

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## Final Exam

Your final exam date/time will be announced in class and on Blackboard as soon as it is posted by the registrar. You will have 2 hrs 45 min to complete the exam and it will be in multiple choice format. This exam is comprehensive and will include Chapter 11 material. The final exam must be taken on the date/time it is scheduled and it must be completed in order to pass the course.

## Grading

Exams	3 @ 125 pts each	375pts.	37.5%
Online Quizzes	best 10 of 11 @ 12.5 points each	125pts.	12.5%
Final Exam	comprehensive	250pts.	25%
Lab	10 experiments	250pts.	25%

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Total Course 1,000pts 100%

\*CHEM044 students are graded out of 750 points total due to missing lab credit.

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## Expectations

Attendance at lecture is expected but not required. That said, if you choose to join us for lecture, please refrain from cruising social media, watching videos, texting, conversing with your neighbor, or otherwise distracting activities. I will appreciate your maturity and so will your classmates.

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## Accommodations

### Student Learning Accommodations Statement

*"In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact ACCESS, the office of Disability Services on campus. ACCESS works with students to create reasonable and appropriate accommodations via an accommodation letter to their professors as early as possible each semester." Contact ACCESS: A170 Living/Learning Center - 802-656-7753 - [access@uvm.edu](mailto:access@uvm.edu).*

Policy on disability certification and student support:

<http://www.uvm.edu/~uvmppg/ppg/student/disability.pdf>

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## Academic Integrity

This policy addresses plagiarism, fabrication, cheating, and collusion.

<http://www.uvm.edu/policies/student/acaintegrity.pdf>

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## Code of Student Rights & Responsibilities

<http://www.uvm.edu/policies/student/studentcode.pdf>

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Center For Health & Wellbeing

<http://www.uvm.edu/~chwb/>

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Counseling & Psychiatry Services (CAPS)

<http://www.uvm.edu/~chwb/psych/>

*If you are concerned about a UVM community member or a specific event, we encourage you to contact the Dean of Students Office at (802) 656-3380.*

If you would like to remain anonymous, you can report your concerns online by visiting the Dean of Students website at:

<http://www.uvm.edu/~saffair>

## Tentative Course Schedule Spring 2020

Dates	Chapter(s)	Assignments
1/13 – 1/22	1 – Bonding & Isomerism	Quiz 1 (Top Hat) Homework: CH 1 end of chapter problems
1/24 – 1/29	2 – Alkanes & Cycloalkanes	Quiz 2 (Top Hat) Homework: CH 2 end of chapter problems
1/31 – 2/7	3 – Alkenes & Alkynes	Quiz 3 (Top Hat) Homework: CH 3 end of chapter problems
<b>2/12</b>	<b>1 - 3</b>	<b>EXAM 1   6:40-9:40pm   Billings LH</b>
2/10 – 2/19	4 - Aromatics	Quiz 4 (Top Hat) Homework: CH 4 end of chapter problems
2/21 – 2/28	5 – Stereoisomerism	Quiz 5 (Top Hat) Homework: CH 5 end of chapter problems
3/2 – 3/16	6 – Nucleophilic Substitution & Elimination Reactions	Quiz 6 (Top Hat) Homework: CH 6 end of chapter problems
3/16 – 3/23	7 – Alcohols, Phenols, & Thiols	Quiz 7 (Top Hat) Homework: CH 7 end of chapter problems
<b>3/25</b>	<b>4 - 7</b>	<b>EXAM 2   6:40-9:40pm   Billings LH</b>
3/25 – 4/1	8 – Ethers & Epoxides	Quiz 8 (Top Hat) Homework: CH 8 end of chapter problems
4/3 – 4/10	9 – Ketones & Aldehydes	Quiz 9 (Top Hat) Homework: CH 9 end of chapter problems
4/13 – 4/20	10 – Carboxylic Acids & Derivatives	Quiz 10 (Top Hat) Homework: CH 10 end of chapter problems
4/22 – 4/29	11 – Amines, Amides, and other N-containing compounds	Quiz 11 (Top Hat) Homework: CH 11 end of chapter problems
<b>4/29</b>	<b>8 - 11</b>	<b>EXAM 3   6:40-9:40pm   Billings LH</b>