

# Organic Chemistry

## Chemistry 141

### Summer 2018

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Welcome to Organic Chemistry. The reactions and structures you learn throughout this semester are cumulative and will be applied to discussions later in the semester and into the spring.

**AIMS:** At the end of this course (and Chem142) a successful student will have developed skills and knowledge that allow them to answer the following questions:-

*I:- Recognize the atoms and bonding present in common functional groups, their resultant chemical properties and likely reactions.*

*II:- Be able to create rational curved-arrow mechanisms to predict the likely products of reactions.*

Students that can combine these skills will be most successful, as this skillset will allow them to communicate with scientists in many other fields.

**LECTURES:** 9AM-12PM M/T/W/Th/F, Billings LH

**EXAMS:** see below, Tuesday 5/29, Monday 6/4, 6/11, and Final Friday 6/15

**OFFICE HOURS:** by appt.

#### **COURSE SCHEDULE:**

| <b><u>May</u></b>                    |                            |                            |                            |                            |                            |
|--------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| <i>Mon 21<sup>st</sup></i>           | <i>Tue 22<sup>nd</sup></i> | <i>Wed 23<sup>rd</sup></i> | <i>Thu 24<sup>th</sup></i> | <i>Fri 25<sup>th</sup></i> | <i>Sat 26<sup>th</sup></i> |
|                                      |                            | <b>Lab 1</b>               | <b>Sapling Ex 1</b>        | <b>Lab 2</b>               | <b>Sapling Ex 2</b>        |
|                                      |                            |                            |                            |                            |                            |
| <i>Mon 28<sup>th</sup></i>           | <i>Tue 29<sup>th</sup></i> | <i>Wed 30<sup>th</sup></i> | <i>Thu 31<sup>st</sup></i> | <i>Fri 1<sup>st</sup></i>  | <i>Sat 1<sup>st</sup></i>  |
| <b><u>Holiday</u></b>                | <b><u>EXAM 1</u></b>       | <b>Lab 3</b>               | <b>Sapling Ex 3</b>        | <b>Lab 4</b>               | <b>Sapling Ex 4</b>        |
|                                      |                            |                            |                            |                            |                            |
| <i>Mon 4<sup>th</sup></i>            | <i>Tue 5<sup>th</sup></i>  | <i>Wed 6<sup>th</sup></i>  | <i>Thu 7<sup>th</sup></i>  | <i>Fri 8<sup>th</sup></i>  | <i>Sat 9<sup>th</sup></i>  |
| <b><u>EXAM 2</u></b><br><b>Lab 5</b> |                            | <b>Lab 6</b>               | <b>Sapling Ex 5</b>        | <b>Lab 7</b>               | <b>Sapling Ex 6</b>        |
|                                      |                            |                            |                            |                            |                            |
| <i>Mon 11<sup>th</sup></i>           | <i>Tue 12<sup>th</sup></i> | <i>Wed 13<sup>th</sup></i> | <i>Thu 14<sup>th</sup></i> | <i>Fri 15<sup>th</sup></i> |                            |
| <b><u>EXAM 3</u></b><br><b>Lab 8</b> |                            | <b>Lab 9</b>               | <b>Sapling Ex 7</b>        | <b><u>FINAL EXAM</u></b>   |                            |

**ONLINE HOMEWORK:** We will be using Sapling Learning for graded quizzes associated with the lectures. These must be completed by 11:55pm on the due date, no late quizzes for any reason.

Sign-up on saplinglearning.com (\$40 or \$60 for both Chem141/142)

**REQUIRED SUPPLIES:-** “*Organic Chemistry*”, Klein, 3rd edition, Wiley (study guide included from UVM bookstore \$145) or e-book (\$135) available from vitalsource.com

Online Access to Sapling Learning

Lab Notebook and SAFETY GLASSES

**RECOMMENDED:-** “*Organic Chemistry I*” As a Second Language, Klein, any edition  
Molecular Structure Model Kit, HGS

**COURSE GRADE:** The course grade will be based on three mid-semester exams and a compulsory, cumulative final exam. Of the three mid-terms the lowest grade will be dropped. No curves are applied to the mid-semester exams and the class average for the exams may vary depending on the complexity of the material. Try your best on all the exams. The final exam grade will not be dropped.

Each mid-semester exam will constitute 20% of your grade, the Final will constitute 25%, providing 65% of your course grade. The lab component of the course will deliver 25%. The final 10% will come from the Sapling Learning online homework.

|   |            |
|---|------------|
| 3 exams (best two mid-terms (20% each) and the final (25%)) | 65%        |
| Lab grade   | 25%        |
| Sapling Learning graded homework                            | <u>10%</u> |
|   | 100%       |

**COURSE ETIQUETTE:**

Organic chemistry has a scary reputation. It is best thought of as a new language or skill. As with any skill some people can become skillful faster than others. All of you are capable of successfully completing this course with the right attitude and determination.

Recommendations:-

1. Attend class with a clear and inquisitive attitude.
2. While in class FOCUS on understanding the material. Do NOT text, check Facebook or emails. This is a waste of your time, money, disrespectful to me and the other students around you who are trying to learn. I know everyone gets distracted at times.
3. After class review the material, read the sections in the textbook. Try the recommended problems, complete the graded online problems early so you can ask questions should you have any.
4. Speak respectfully to your fellow students, your TA and me. All the challenges presented to you are designed to encourage you to learn this valuable material.
5. Try to find answers to your own problems by checking the course syllabus, lab logistics or Blackboard. Then, if you still don't find the answer, after looking, check in with me or your TA. “Would you stand in-line to have this question answered?”
6. All course materials (both yours and mine) are protected by copyright. I cannot copy or post your written material and you cannot post any course materials such as blanks of the exam, reviews or notes online. Lectures may not be recorded without permission.
7. All students are expected to honor the UVM codes of conduct and academic integrity.
8. Post-bac premed students: do NOT solicit letters of recommendation. I will make offers as merited.
9. Work hard and have fun!! A.W.