

### COURSE INTRODUCTION, SCHEDULE, AND GENERAL INFORMATION

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#### Required Material

- ❑ **Lecture Text:** M. Loudon, *Organic Chemistry*, 5th ed., 2009, Roberts & Company Publishers
- ❑ **Sapling Learning Subscription**, described in more detail later
- ❑ **Model Kit:** You should buy an organic molecular model kit or check one out from the library. A small kit is sufficient and can be bought online for \$10-20. You will be able to use models during quizzes and exams.

#### Grading:

<u>Point Breakdown</u>		<u>Grade Breakdown</u>			
Problem Sets/Quizzes	300 points	A	675-750	C	525-580
Class Exams (3)	300 points	B+	656-674	D+	506-524
Cumulative Final	150 points	B	600-655	D	450-505
Total points	750 points	C+	581-599	F	<449

#### Course Information

- A weekly course outline with important tasks, dates and deliverables will be handed out at the beginning of each course week.
- This course will actively use the Moodle course software. All course materials will be posted on it. Any pre-made lecture material will be posted on Moodle the night before lecture and my lecture notes will be uploaded onto Moodle following lecture.
- A list of daily reading assignments and recommended problems from the book will be posted online for each exam. You will be responsible for material assigned in the book but not covered in lecture. None of the problems will be graded, but will serve as good practice for quizzes and exams. The answers for the purple problems are included in a study guide that you can buy from any online bookseller.
- Short problem-solving podcasts will be posted on Moodle for each major lecture topic as well as for the keys to all the quizzes and exams. The optional videos will not feature any new material, but will feature me working through a few end-of-chapter problems.
- A set of learning objectives for each exam will be posted online. All questions from the exams will cover topics listed in the objectives
- Homework assignments will be taken up as soon as class begins each Monday. If you must miss a class, assignment, etc. notify me [preferably] before the absence, but at the very least as soon as possible.
- The final is a standardized national organic field exam and will cover material from all of organic chemistry, especially material described in CHEM251 and CHEM252.
- Attendance is expected in all lecture sessions, but I will not take formal attendance at lecture. Please try to sit in the same seat every day.

## Use of Technology in the Classroom

Your computer will be used to run Spartan in some homework assignments. You will be trained in using the software during the first week of lab.

## Electronic Homework Assignments through Sapling Learning

We will be using Sapling Learning to do homework assignments. You will be invited to create an account at <http://saplinglearning.com/>. The homework system is designed to provide feedback as you answer the questions. For incorrect answers, a small percentage will be deducted and then hints will be given for you to answer again. We piloted this program last winter and the students strongly supported using it again. It seemed to increase student performance on homework problems by at least half a letter grade.

*Ground Rules:* Deadlines for required problems will be provided for each week. There will also be some recommended problems each week that you can do at your convenience. You must do your own work.

No faculty member at RHIT has financial interest in Sapling Systems. We use this solely because we think it is an excellent learning tool.

Here are the instructions for signing up:

1. Go to <http://saplinglearning.com>
2. If you already have a Sapling Learning account, log in then skip to step 3.
  - a. If you have Facebook account, you can use it to quickly create a SaplingLearning account. Click "create account" located under the username box, then click "Login with Facebook". The form will auto-fill with information from your Facebook account (you may need to log into Facebook in the popup window first). Choose a password and timezone, accept the site policy agreement, and click "Create my new account". You can then skip to step 3.
  - b. Otherwise, click "create account" located under the username box. Supply the requested information and click "Create my new account". Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
3. Find your course in the list (listed by school, course, and instructor) and click the link.
4. Select a payment option and follow the remaining instructions.

Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments. During sign up - and throughout the term - if you have any technical problems or grading issues, send an email to [support@saplinglearning.com](mailto:support@saplinglearning.com) explaining the issue. The Sapling support team is almost always more able (and faster) to resolve issues than your instructor and TAs.

To optimize your Sapling Learning experience, please keep your internet browser and Flash player up to date and minimize the use of RAM-intensive programs/websites while using Sapling Learning.

## Academic and Professional Integrity

The methods used in this course presuppose that students will uphold the highest standards of professional and academic integrity. Definitions and punishments for academic misconduct are described in the Student handbook

## Disability Accommodation

If you require disability accommodations, contact The Learning Center (contact by phone: (812) 877-8876, Campus mail: box # 82, and Email: [learningcenter@rose-hulman.edu](mailto:learningcenter@rose-hulman.edu)) to make initial arrangements and then contact the instructor. Exams taken in the Learning Center must be taken the same day as the exam or earlier.

## CHEM 253: Organic Chemistry III

### COURSE SCHEDULE FOR SPRING QUARTER 2014

Date	Week	Topic <sup>a</sup>
Mar 11		Chapter 19: Chemical of Aldehydes and Ketones
Mar 13	1	
Mar 14		
Mar 18		
Mar 20	2	Chapter 20: Chemistry of Carboxylic Acids
Mar 21		
Mar 25		Chapter 21: Carboxylic Acid Derivatives
Mar 27	3	
Mar 28		<b>EXAM 1 (Chapters 19 and 20)</b>
Apr 1		
Apr 3	4	
Apr 4		
April 8		Chapter 22: Chemistry of Enolates
April 10	5	
April 11		
April 15		
April 17	6	
April 18		<b>EXAM 2 (Chapters 21 and 22)</b>
April 29		Chapter 23: Chemistry of Amines
May 1	7	
May 2		Chapter 24: Carbohydrates
May 6		
May 8	8	
May 9		Chapter 25: Heterocycles
May 13		
May 15	9	
May 16		<b>EXAM III (Chapters 23-25)</b>
May 20		Chapter 26: Amino Acids
May 22	10	
May 23		Course Wrap-up
<b>May 26</b>		<b>FINAL EXAM WEEK</b>

<sup>a</sup>M. Loudon, *Organic Chemistry*, 5<sup>th</sup> Edition