

Organic Chemistry I

LECTURE: SCIENCE HALL 105
MWF 1:00PM – 1:50PM

INSTRUCTOR

Dr. Kathryn L. Haas (158 Science Hall, khaas@saintmarys.edu)

TEXTS, SUPPLIES

LECTURE SUPPLIES:

(1) Required: **Organic Chemistry, 9th Edition, Francis A. Carey and Robert M. Giuliano**, McGraw-Hill, New York, ©2011

(2) Highly Recommended: **Solutions Manual Organic Chemistry**, 9th Edition, Written by Neil Allison, the Solutions Manual provides step-by-step answers for all end-of-chapter problems, guiding students through the reasoning behind each solution.

McGraw-Hill, New York, ©2011

(3) Highly Recommended: **Sapling Learning Account for Online Homework and Quizzes** (see below)

(4) Recommended: Molecular Model Kit for organic chemistry

(4) Recommended: Pen with multiple colored inks

INTRODUCTION

Organic Chemistry I is the first of a two-course sequence of Organic Chemistry. In order for you to be successful in this course it is imperative that you stay current with, and even ahead of, the course material as it is covered in class. Falling behind by even a few topics could make it quite difficult to be successful in this class.

Suggested steps for staying ahead and succeeding are as follows:

- (1) **PRE-READ** the sections in the text *before* attending class and work through the chapter-imbedded problems; (and do the Sapling Extra Credit problems)
- (2) Attend class and **TAKE GOOD NOTES**;
- (3) **WORK PROBLEMS** (Complete problem sets as assigned. **DONT GET BEHIND**);
- (4) **WORK PROBLEMS** (Attend problem sessions as discussed below);
- (5) Repeat 1-4 until exam.

EXAMS/QUIZES/GRADING

Exam I:	Friday, September 19	100 points
Exam II:	Friday, October 17	100 points
Exam III:	Monday, November 24	100 point
Final Exam:	10:30 AM, Thursday, Dec. 18, 2014	200 points

There will be three exams (100 points each), several online quizzes (10 points each), and a final examination (200 points). The laboratory is approximately 20% of your final grade for this course. Quizzes will account for no more than 10% of your final grade. There will be no make up exams or dropped scores. Please note exam dates prior to making travel plans, etc.

Quizzes –Quizzes will be given Online and are designed to prevent you from getting behind and to encourage working of assigned problems. These quizzes will be easy if you have done the assigned reading and problems and have stayed current with the class material. “Fair game” for quizzes is any material already covered in class or any **assigned reading/ problems that have not been explicitly covered**. The quiz grades will account for 10% of your final grade.

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Quizzes will be distributed electronically outside of class using Sapling Learning's Website. You will get one quiz at the end of each chapter covered in class. **The quiz will be due before 12 PM** on the following class day (i.e. before you go to bed). Quiz deadlines are designed to help you stay on track! I do not wish to penalize you for accidentally missing a quiz, however, if you are missing deadlines, you are working against your success. The first 2 times a student misses the due date for a quiz, she may request a 24 hour extension for no penalty, after which the penalty will be a 50% reduction in points. Please take deadlines seriously in order to help yourself do well in this class.

Exams - Exams will be challenging. They will not just be a regurgitation of textbook or lecture material. Instead, you will be asked to apply the principles that you have learned to solve problems that you have probably not seen before. All exams (including the final) are cumulative. They will, however, focus on the material covered since the previous exam. You must retain a good working knowledge of the material from throughout the course in order to perform well on each of the exams.

In the event of an *excused* absence from an exam a normalized final exam score will be used to replace the score of the missed exam. For illnesses, injuries, disabilities or special personal circumstances (bereavement, etc.) that preclude normal sitting of a scheduled examination, students are required to obtain an Approved Excuse. It is your responsibility to notify me BEFORE you miss a test, even for an *excused* activity for which you will eventually receive an official excuse. Unexcused absence from an exam will result in a score of zero. Suspected cheating on exams or other assignments will result in referral to academic affairs and a consequence of a zero on the assignment in question. In severe cases of academic dishonesty, the guilty person(s) will be dismissed from the course with a failing grade.

LABORATORY

A laboratory session will accompany the course and will count for approximately 20% of your overall grade. **The first lab meetings will be Monday-Thursday, Aug 25-28.** Students are required to follow the prescribed laboratory safety rules contained in the laboratory syllabus. Safety glasses are provided and must be worn at all times while in lab; they can also be purchased in the Notre Dame bookstore. Further information regarding meeting times, course structure, and requirements can be obtained in the lab syllabus. You must pass the laboratory component independently in order to qualify for a passing grade in the lecture component of the course. Please take lab seriously!

HOMEWORK AND PRACTICE

Each student is responsible for all of the problems that are embedded in the text of the chapters corresponding to material covered in class, and I highly recommend doing the following: (1) do the in-text and Sapling beginner level problems while you read and before class each day. (2) Do the Lecture Review problems each day after class. (3) do all of the problems at the end of the chapters for more advanced practice (Difficult exams questions will look a LOT like the challenging problems in the text book). At the beginning of each lecture, a "Lecture Review" problem set will be handed out to you for more problems to practice. **I will be available each day after lecture to help you stay current by completing the Lecture Review problems.** Problem sets will *not* be turned in for grading, however, it is nonetheless a real assignment that must be completed in a timely manner so that you will do well on Exams.

BLACKBOARD

This course will use Blackboard (Bb) for posting relevant course information. If you are enrolled in the course you are automatically enrolled in the Blackboard site. General course information (this syllabus, for example), tutorials, recommended homework problems sets, class materials, exam keys, and lab procedures are all available at this site. In addition, grades for quizzes, tests, and lab work are posted to Blackboard. Check the site often. ** please note that the lab and lecture portions of this course have separate Bb sites.

SAPLING LEARNING ([HTTPS://WWW.SAPLINGLEARNING.COM/](https://www.saplinglearning.com/))

This course will use Sapling Learning's Online Homework and Testing system. On our Course's Sapling Website, you will find daily homework problem sets that will help you practice relevant problems every day. For each **homework set that is completed before 12 PM** on the day that the material is covered in class, you will receive extra credit points that will be applied to your final exam score. You may receive up to **30 extra credit points** (one for each assignment) that will be applied to the final exam score at the end of the semester. To illustrate: if you do all assignments ahead of class time and receive 30 total extra points, and you receive a 60/100 on one exam, this

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would take your 60% (~D) exam score and make it look like a 90% (~A-)!!! This extra credit is designed as an incentive for you to READ AHEAD and work ahead of class lectures. Not only will it add to exam points, but it will give you the practice needed to improve your performance on every exam and quiz. I want you to succeed, so please use this great option!!

You may choose not to use this system. If you chose to use Sapling Learning to enhance your experience in this class, your quiz grade will account for 10% of your final grade. If you prefer not to use Sapling Learning, then the 10% of your grade allotted for quizzes will be weighted onto your exam score. **It is really easy to fall behind in this class or to make small mistakes that can cost you big points on exams. For this reason, I encourage you to take advantage of Sapling** to help you work problems correctly and to stay ahead.

To create an Account:

1. Go to <http://saplinglearning.com> and click on your country ("US Higher Ed") at the top right.
- 2a. If you already have a Sapling Learning account, log in and skip to step 3.
- 2b. If you have Facebook account, you can use it to quickly create a SaplingLearning account. Click the blue button with the Facebook symbol on it (just to the left of the username field). 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.
- 2c. Otherwise, click "create account". 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 (you may need to expand the subject and term categories) and click the link.
4. If your course requires a key code, you will be prompted to enter it. Select a payment option and follow the remaining instructions.
5. Work on the Sapling Learning training materials. The activities, videos, and information pages will familiarize you with the Sapling Learning user environment and serve as tutorials for efficiently drawing molecules, stereochemistry, etc. within the Sapling Learning answer modules. These training materials are already accessible in your Sapling Learning course.

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 explaining the issue. The Sapling support team is almost always more able (and faster) to resolve issues than your instructor.

ATTENDANCE AND ETIQUETTE

Attendance will not be taken but it is requested that you arrive prior to the start of each lecture. Please turn all cell phones, mp3 players, and other electronic equipment off (not *vibrate*) before lecture begins each day. If you miss a lecture, you should seek out a classmate to provide you with notes or announcements from that class. **The course will be conducted according to the Saint Mary's Policy on Academic Honesty.** All students must familiarize themselves with the Policy on the College's website (<http://www3.saintmarys.edu/first-year-policies>) and pledge to observe its tenets in all written work, including exams and laboratory work.

EMAIL POLICY

Prior to sending an email to me, please take a moment to review this syllabus, the lab syllabus, or consult your classmates (if appropriate) as the answers to most administrative questions can usually be found with a short search. It is often difficult to answer questions regarding problem solving via email, so if you are able, please come to see me with such questions. That being said, I am happy to engage with students about course content, grades, or personal issues and do not wish to discourage open and frequent discussion via email. Please allow 24 hours while awaiting a reply.

EXTERNAL SUPPORT

Office Hours by Google Calendar. I will hold office hours in 158 Science Hall according to my Google Calendar that is available through the "Contact Kathryn Haas" link on Blackboard. My usual office hours are MW 1-5 pm, but are subject to change if an appointment is not made 24 hours in advance. If appointment slots are available, you may make an appointment within 2 hours of the allotted time. Each appointment time slot is 15 minutes. If you think you will need more than 15 minutes, please book accordingly. I will honor all appointments to the best of my ability.

Problem/Lecture Reviews. I will be in SH 132 from **5:00-6:00 PM on Mondays** for additional problem/lecture review sessions. Students will work problems on the board. Attendance is optional, but encouraged. I will be HAPPY to meet more often if there is demand for it. Please organize a group and ask me to attend if you would like more problem session-style meetings.

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Exam Review Sessions. We will spend the latter part of each lecture preceding an exam reviewing material if there is time. If extra review sessions are called for, the times and locations will be announced.

Private tutoring. If you are looking for additional private tutoring, let me know and I will refer you to interested upper level undergraduate or pre-doctoral students. You and your tutor will arrange fees for this service.

ACCOMODATIONS FOR STUDENTS WITH DISABILITIES

Any student who, because of a disability, is eligible for accommodations to complete the requirements and expectations of this course is invited to contact Iris Giamo, in the Disability Resource Office located in Madeleva Hall Room 103C (x4262) or e-mail igiamo@saintmarys.edu for an appointment to review documentation and arrange for appropriate and legal accommodations. Students who suspect they may have a disability are also encouraged to contact the Disabilities Resource Office.

A PERSONAL NOTE

Welcome to Organic Chemistry! This class has a reputation for being hard and may seem at first to be one of the most intimidating classes you have to take in your career. But I hope that you find in the weeks to come that it is rewarding and fun experience. I encourage you to feel relaxed and comfortable in my classroom. Please ask questions and feel free to speak up if you think you can offer insight that may help other students understand the material. At the same time, it is important to me that you please have courtesy not to carry on private conversations, use your telephone, or arrive to class late. I will do my best to always end class on time so that you do not have to disturb the class by leaving early to get to your next appointment.

I encourage you to come see me or to consult your other classmates immediately if you feel lost at any point. The most important thing for you to do this semester is to keep up with the pack. Please help your classmates and encourage each other to stay on top of assignments. It would please me greatly if we could all cross the finish line together with a class average of A+ (I'm sure you wouldn't mind either!). Lets stick together and see how far we can get! Now, lets get started! ☺

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TOPICS

A tentative schedule of topics is shown below. More specific pre-reading sections will be assigned at the end of each lecture. The instructor reserves the right to make changes to the syllabus and course schedule as the term proceeds.

Week	Date	#	Chapter and Topic	Assignment due before next class period.
1	M 8/25	1	Introduction	Read Syllabus. MAKE A STUDY PLAN. Reading and problems in Ch 1.1-1.7
	W 8/27	2	Chapter 1.1-1.8	LR1, Reading and problems in Ch 1.8-1.12
	F 8/29	3	Chapter 1.9-1.12	LR2, Reading and problems in Ch 1.13-1.17
2	M 9/1	4	Chapter 1.13-1.17	LR3, Chapter 1 quiz (Sapling) , Reading and problems in Ch 2.1-2.10
	W 9/3	5	Chapter 2.1-2.10	LR4, Reading an problems in Ch 2.11-2.18
	F 9/5	6	Chapter 2.11-2.18	LR5, Reading and problems in Ch 2.19-2.23
3	M 9/8	7	Chapter 2.19-2.23	LR6, Chapter 2 quiz (Sapling) , Reading and problems in Ch 3.1-3.5
	W 9/10	8	Chapter 3.1-3.5	LR7, Reading and problems is Ch 3.6-3.10
	F 9/12	9	Chapter 3.6-3.10	LR8, Reading and problems in Ch 3.10-3.16
4	M 9/15	10	Chapter 3.11-3.16	LR9, Chapter 3 quiz (Sapling) , Review material for exam
	W 9/17	11	Practice Exam Ch 1-3	Self-grade exam. Review session at 5pm. Get sleep for exam and relax!
	F 9/19	12	Exam 1	Reading and problems in 4.1-4.6
5	M 9/22	13	Chapter 4.1-4.6	LR10, Reading and problems in Ch 4.7-4.10
	W 9/24	14	Chapter 4.7-4.10	LR11, Reading and problems in Ch 4.11-4.12
	F 9/26	15	Chapter 4.11-4.12	LR12, Reading and problems in Ch 4.13-4.18
6	M 9/29	16	Chapter 4.13-4.18	LR13, Chapter 4 quiz (Sapling) , Reading and problems in Chapter 5.1-5.7
	W 10/1	17	Chapter 5.1-5.7	LR14, Reading and problems in Chapter 5.8-5.13
	F 10/3	18	Chapter 5.8-5.13	LR15, Reading and problems in Ch 5.14-5.19
7	M 10/6	19	Chapter 5.14-5.19	LR16, Chapter 5 quiz (Sapling) , Reading and problems in Ch 6.1-6.5
	W 10/8	20	Chapter 6.1-6.5	LR17, Reading and problems in Chapter 6.6-6.9 and on pg 258-259
	F 10/10	21	Chapter 6.6-6.9	LR18, Reading and problems in Chapter 6.10-6.15
8	M 10/13	22	Chapter 6.10-6.15	LR19, Chapter 6 quiz (Sapling) , Review material for exam
	W10/15	23	Practice exam for Ch 4-6	Self-grade exam. Review session at 5pm. Get sleep for exam and relax!
	F 10/17	24	Exam 2	Read AHEAD (here comes fall break!)
9	Fall Break! No class			Review and use this time wisely!
10	M 10/27	25	Review/ catch up	LR, Reading and problems in Ch 7.1-7.7
	W10/29	26	Chapter 7.1-7.7	LR, Reading and problems in Ch 7.8-7.14
	F 10/31	27	Chapter 7.8-7.14	LR, Reading and problems in Ch 7.15-7.18
11	M 11/3	28	Chapter 7.15-7.18	LR, Chapter 7 quiz (Sapling) , Reading and problems in Ch 8.1-8.5
	W11/5	29	Chapter 8.1-8.5	
	F 11/7	30	Chapter 8.1-8.5	LR, Reading and problems in Ch 8.6-8.10
12	M 11/10	31	Chapter 8.6-8.10	LR, Reading and problems in Ch 8.11-8.13
	W 11/12	32	Chapter 8.11-8.13	LR, Ch 8 quiz (Sapling) , review reactions
	F 11/14	33	Review reactions	LR, Reading & prob. in Ch 9.1-9.7
13	M 11/17	34	Chapter 9.1-9.7	LR, Reading and problems in Ch 9.7-9.14
	W11/19	35	Chapter 9.7-9.14	LR, Reading and problems in Ch 9.15-9.16
	F 11/21	36	Chapter 9.15-9.16 (video)	LR, Chapter 9 quiz (Sapling) , Review material for exam
14	M 11/24	37	Practice exam Ch 7-9***	Self-grade exam. Review session 5-7 PM
	W11/26 F 11/28	No Class! Thanksgiving		Review and use this time wisely!
15	M 12/1	40	Exam 3	Reading and problems Ch 10.1-10.6 (Alternate Exam Time 5-7 PM)
	W12/3	41	Chapter 10.1-10.6	LR, Reading and problems, Ch 10.7-10.11
	F 12/5	42	Chapter 10.7-10.11	LR, Reading and problems Ch 10.12-10.15
16	M 12/8	43	Chapter 10.12 – 10.15	LR, Chapter 10 quiz (Sapling)
	W 12/11	44	Review	Review notes and study for Final Exam.
FE	Th 12/18	FE	Final Exam: Thursday, December 18, 10:30 AM - 12:30 AM	

*** Dr. Haas will be out of town from 11/20-11/24.