

**Syllabus : CHM 234, General Organic Chemistry II : Spring 2018**  
**Onground Class SLN 10161    Hybrid Class SLN 13824**

Office:	PS D-109	Office Hours
Phone:	965-7278	Mon. 1:00 PM- 2:00 PM
Lectures:	Mon., Wed., Fri., 7:30 - 8:20 AM	Tues. 11:00 AM – Noon
Location:	LS-A191	Wed. 8:30 AM - 9:30 AM
Website:	<a href="https://www.asu.edu/courses/chm234/">https://www.asu.edu/courses/chm234/</a>	Online - Thurs. 5:00 PM – 6:00 AM
		Fri. 8:30 AM - 9:30 AM

**I do not use Blackboard Check the class website regularly for announcements, I will assume that you have read all announcements posted on the website**

**Textbook.** This class does NOT use a textbook. Textbooks are good for reference, but I strongly believe that they are not very good for teaching and learning. Your lecture notes should give you all of the information you need, and you can only learn organic chemistry by doing organic chemistry, not by reading it in a textbook. This class places a lot of emphasis the homework site, this is where you do organic chemistry and this is where you learn organic chemistry.

If you would like to have a textbook as a reference book, then by all means get one. A good textbook is Organic Chemistry by Paula Bruice, however, just about all organic textbooks are the same, you could use any of them as a reference, and used older editions of textbooks from Amazon are a fantastic deal. For example, I have see a 5th edition of the Bruice textbook on Amazon for just a few dollars. It should be fairly easy for you to find the appropriate reading and problems that relate to the material that we are covering in any textbook, although some textbooks do not cover pericyclic reactions, a second semester topic (the Bruice one does).

Many students will ask me if they should get a textbook. Unfortunately, I am not able to give a satisfactory answer, since different students have very different needs. Some students really like to study from a textbook and appreciate learning a topic from a different perspective. Some students want a permanent textbook to study for the MCAT, for example. You have to make your own decision on this I am afraid.

**Model Kit.** A Molecular Model Kit, IS SUGGESTED for CHM 234 (but you will not use it as much as you did in CHM 233). The best kit is the [HGS 1013/1013A Organic Chemistry Set for Students](#). The bookstore sells something that is similar to this. The 1013/1013A kit is available from [Amazon](#), for ca. \$20. Another kit is the [Prentice Hall Molecular Model Set For Organic Chemistry](#), but **DO NOT BUY IT**. It makes pretty models but is terrible for our courses.

**Examinations and Grading.** Three midterms will be given from **7:30 - 8:20 AM** on **Monday Feb. 12th, Monday Mar. 19th, and Monday Apr. 9th**. The final exam is on **Monday April 30th 7:30 - 9:20 AM**. I will not change an exam date for ANY reason since changes will merely result in new conflicts. Although the emphasis of the midterms will be on the most recent material, all exams are necessarily cumulative. The final exam will be on material from the entire course. No late or early exams will be given, you *must* be present for ALL exams, *none* are dropped!

**Weekly Quizzes/Homework.** There will be 14 multiple-choice online quizzes, roughly one each week. The deadline for submission of most of the quizzes will 6:00 PM each Sunday, so that the answer key can be posted on the Sunday before each Monday midterm as a study aid. No excuses will be accepted for missing quizzes, *you will not be able to make them up, please do not ask*. However, the lowest FOUR quiz scores *will* be dropped. If you are ill, have a job interview etc. just forgot to submit in time or missed the deadline or had computer/internet problems, that is what the dropped quizzes are for, that way I don't have to decide whether your excuse is legitimate or not. Note that there will NOT be any multiple-choice questions on any of the exams. You will be awarded credit up to a maximum of 50 points for using an online homework/practice problems website that accompanies this course, details will be given in class and on the website.

**I do not award grades in this class, you earn your grade.** It is my job to **help you earn** the highest grade that you are capable of. Grades are **earned** on the basis of 1000 total points:

Quizzes	10 x 5 pts.	=	50 pts.
Homework		=	50 pts.
Midterm Examinations	3 x 175 pts.	=	525 pts.
Final Examination	1 x 375 pts.	=	375 pts.
Total		=	1000 pts.

You will need to obtain the following points totals to earn the grades as shown.

Grade A : 890 points

Grade B : 780 points

Grade C : 620 points

Grade D : 500 points

**There are NO +/- grades for this class!**

**I reserve the right to change these point totals** (although I almost never do). Grades are earned based on the points totals *only*. For example, if your score on the first midterm is low but is high on the final, there is no way for you to earn a higher grade than you deserved based on your points *total*. In this way, no student will earn a higher grade than another even though his or her points total is lower. Note that you are NOT competing against anybody else in this class, in principle EVERYBODY **could** get an A, although this is unlikely to happen.

Once the final course grades have been posted there will be *no mechanism* for you to get a higher grade, no extra credit, nothing. Don't ask! If you missed a grade by a few points it will not have gone unnoticed by me. Your final exam will have been entirely regraded by me and I will not have been able to find enough points to raise your grade. You earn your grade by **EXCEEDING** the required number of points, **NOT by getting close!**

**Procedures.** This class uses "gapped" lecture notes, see the web site for details under "Lecture Material". These should be purchased at the bookstore, see class for details. Use the Gapped notes in class, completed versions of the notes will be posted on the web site at the end of each section.

**Homework.** Using the homework site is the **only way that you will actually learn organic chemistry**. There are roughly 1200 problems on the homework site, but you do not need to do them all in order to earn all of the homework credit. To earn all 50 points credit you will need to "attempt" 800 of these problems. An "attempt" means trying to answer the problem, and getting it correct OR incorrect, both of these earn the same credit. We don't punish you for trying to learn by doing work. The homework site counts the number of attempted problems throughout the semester. Studying a problem, does not count as an attempt, but any other way of using a problem does. Any number of problems less than 800 receive credit proportionally, and so 400 problems earns 25 points, etc. There are no deadlines, no number of problems you need to complete each week etc., except that the problems need to be attempted by the end of the day of the last day of classes, April 27<sup>th</sup>.

**Studying.** This course covers quite a lot of material. This isn't really because I want to cover a lot of material, in fact we tend to cover somewhat less in my courses compared to most organic chemistry courses, but I also really want you to understand the material in detail. Just getting just a superficial knowledge of facts isn't really what any of us wants, is it? The definition of real learning is that you are able to take something you learned in one context and use it in another context, this means problem solving. I hope that this class will help to develop your learning and problem-solving skills. Developing problem-solving skills in organic chemistry does require you to DO quite a lot of organic chemistry. study suggestions on the web site. By far the most important way that you will study is by **DOING PROBLEMS ON THE CLASS HOMEWORK WEBSITE!**

If you do not understand something, come and see me during office hours as soon as possible. I want to help you! To get help, you must come and see me **BEFORE** an exam, I can't help you after the exam is over. If you need to get a certain grade in this class to maintain a scholarship, or to graduate, you need to tell me about this at the *beginning* of the semester! I will do *whatever I can to help you*. However, do not come to me at the end of the semester, or after you have failed 2 midterms to ask for help. By then it is too late! I cannot give grades to "deserving" cases or out of sympathy, you have to earn your grade.

**Material Covered.** Exam material will be taken from your lecture notes, the website problems and any other materials distributed to the class.

**Voluntary Review Sessions.** Voluntary review sessions will be held at fairly regular intervals, particularly before the exams, look for announcements in class and on the web site for times and locations.

**Incomplete Policy.** An incomplete will *only* be given under exceptional or catastrophic circumstances, usually for medical reasons that force you to miss multiple classes or tests towards the end of the semester, i.e. for circumstances that prevent you from COMPLETING the class. I will not give you an incomplete because you do not want a W on your record. Please note the University withdrawal deadlines:

Course Withdrawal Deadline	Apr. 1st
Complete Withdrawal Deadline	Apr. 27th

If you have continuing medical issues that force you to miss or affect your performance on assignments or tests throughout the semester, an incomplete is not appropriate for you, you should take a medical Withdrawal.

**INFORMATION Specific to Hybrid/Online Class Students (SLN 13824).** Your class is a hybrid class. All lecture and other class materials are online, you are only required to come to class to take the 3 midterm and the final exams, dates and times given below.

The hybrid class runs in parallel with the regular on-ground CHM 233 class. The two classes will share the same website, lectures and all class materials. The two classes will have same midterm and final exams. Both classes will take the exams on the same dates at the same times, except that hybrid students take the tests in a different room. **All exams for the Hybrid class will be held in PS H-152**, do NOT come to LSA-191, only the regular/onground students take their tests in that room.

Each class period, the on-ground class lectures will be recorded and posted the same day on the class website for use by both the online and on-ground students. Online quizzes will be assigned each week (see above). The quizzes will be the same for the online and on-ground classes.

The regular on-ground classroom is unlikely to be full, and you are welcome to attend lecture if you like. These are held in LS-A191, 7:30 - 8:20 AM, Mon, Wed, Fri.

Office hours are scheduled online late Thursday afternoons to help those of you with complex schedules. In general, voluntary review sessions will be held on Saturday afternoons, and also Thursday evening before the midterm and the final exams.

A critical issue with any demanding online class is making sure that you have the discipline to keep up with the material and work. For most students this will not be a big issue in this class, since most of you will be motivated towards getting a good grade in organic chemistry anyway to help in your application to pre-professional school etc.

#### **Academic integrity**

Plagiarism, using unauthorized aids on an exam or altering an exam for regrading is obviously considered cheating. Exams will be photocopied for record-keeping purposes so it is not very smart to consider alteration. Academic honesty is expected of all students in all examinations, papers, and laboratory work, academic transactions and records. The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see <http://provost.asu.edu/academicintegrity>

#### **Students with disabilities**

Students who feel they will need disability accommodations in this class but have not registered with the Disability Resource Center (DRC) should contact DRC immediately. The DRC Tempe office is located on the first floor of the Matthews Center Building. DRC staff can also be reached at: (480) 965-1234 (V) or (480) 965-9000 (TTY). For additional information, visit: [www.asu.edu/studentaffairs/ed/drc](http://www.asu.edu/studentaffairs/ed/drc).

**Expected classroom behavior**

Be sure to arrive on time for class, arriving late disturbs your classmates. Do not allow your cell phone to ring during class. Disruptive behavior, which includes ringing cell phones, listening to music, text messaging, constant talking, eating food noisily, etc. is obviously disrespectful, please don't do it.

**Policy against threatening behavior**

All incidents and allegations of violent or threatening conduct by an ASU student (whether on-or off campus) must be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students. If either office determines that the behavior poses or has posed a serious threat to personal safety or to the welfare of the campus, the student will not be permitted to return to campus or reside in any ASU residence hall until an appropriate threat assessment has been completed and, if necessary, conditions for return are imposed. ASU PD, the Office of the Dean of Students, and other appropriate offices will coordinate the assessment in light of the relevant circumstances.

**CHM 234 > Spring 2018 : Ian R. Gould****Exam/Lecture Schedule***Subject to change as necessary!*

<b>Dates</b>	<b>Lectures</b>	<b>Subject</b>	<b>Section</b>
Jan 8 - Jan 12	1 - 3	Retrosynthesis	1
<i>Jan 15 No Class, MLK Day</i>			
Jan 17 - 26	4 - 8	Alkynes	2
Jan 29 - Feb 2	9 - 11	Alcohols	3
Feb 5 - 7	12 - 13	Organometals	4
<b>Feb 12</b>	<b>Midterm Exam #1: Emphasis on Sections 1 - 3 (but all exams are cumulative)</b>		
Feb 9 - 16	14 - 16	Ethers/Epoxides	5
Feb 19 - Feb 28	17 - 21	Conjugated Systems	6
Mar 2 - 14	22 - 24	Aromaticity	7
<i>Mar 5 - Mar 9 No Classes, Spring Break</i>			
Mar 16 - 23	25 - 27	Benzene Reactions	8
<b>Mar 19</b>	<b>Midterm Exam #2: Emphasis on Sections 4 - 7 (but all exams are cumulative)</b>		
Mar 26 - Apr 4	28 - 32	Aldehydes/Ketones	9
<i>Apr 1 Course Withdrawal Deadline</i>			
Apr 6 - Apr 13	33 - 35	Enols/Enolates	10
<b>Apr 9</b>	<b>Midterm Exam #3: Emphasis on Sections 8 - 9 , part of 10 (but all exams are cumulative)</b>		
Apr 16	36	Carboxylic Acids	11
Apr 18 - Apr 23	37 - 39	Acid Derivatives	12
Apr 25 - 27	40 - 41	Amines	13
<i>Apr 27 Complete Withdrawal Deadline</i>			
<b>Apr 30</b>	<b>Final Exam (7:30 - 9:20 AM)</b>		

## CHM 234, Spring 2018: Quiz Schedule

*Deadlines are always Sundays 6:00PM EXCEPT Quiz #1*

<b>TUESDAY Jan 16, 11:59PM</b>	<b>Quiz #1</b>
<b>Sunday Jan 21 6:00PM</b>	<b>Quiz #2</b>
<b>Sunday Jan 28 6:00PM</b>	<b>Quiz #3</b>
<b>Sunday Feb 4 6:00PM</b>	<b>Quiz #4</b>
<b>Sunday Feb 11 6:00PM</b>	<b>Quiz #5</b>
<b>Sunday Feb 18 6:00PM</b>	<b>Quiz #6</b>
<b>Sunday Feb 25 6:00PM</b>	<b>Quiz #7</b>
<b>Sunday Mar 4</b>	<b>No Quiz (Spring Break)</b>
<b>Sunday Mar 11</b>	<b>No Quiz (Spring Break)</b>
<b>Sunday Mar 18 6:00PM</b>	<b>Quiz #8</b>
<b>Sunday Mar 25 6:00PM</b>	<b>Quiz #9</b>
<b>Sunday Apr 1 6:00PM</b>	<b>Quiz #10</b>
<b>Sunday Apr 8 6:00PM</b>	<b>Quiz #11</b>
<b>Sunday Apr 15 6:00PM</b>	<b>Quiz #12</b>
<b>Sunday Apr 22 6:00PM</b>	<b>Quiz #13</b>
<b>Sunday Apr 29 6:00PM</b>	<b>Quiz #14</b>