CHEM 343: Introductory Organic Chemistry

Contact Information
Matt (Doc) Bowman
262-2519
Chemistry 5232
bowman@chem.wisc.edu
(Please include Chem 343 in the subject line).

3 credits: Lecture 50 min three times per week
Discussion 50 min once per week

Lecture 1:
MWF 9:55-10:45 AM
Room: Chem 1361

Office Hours
Starting February 2
Mondays 1:30-2:20 PM Noland 342
Wednesdays 2:30-5:20 PM Computer Sciences 1207
(or by appointment)

Teaching Assistants
Jordan Ho jordanho@chem.wisc.edu
James Jirak jjirak@wisc.edu
Evan Sherbrook sherbrook@wisc.edu

Piled Higher and Deeper by Jorge Cham www.phdcomics.com

IT'S IN THE SYLLABUS

This message brought to you by every instructor that ever lived.

www.phdcomics.com

title: "It's in the syllabus" - originally published 5/10/2013
**TA Office Hours**

TA office hours on the day following exams will be cancelled as the TA’s will be grading then.

TA office hours are held in Chemistry B317 (Organic TA Office)

Jordan Ho  
Wednesdays 11:00-11:50  
Thursdays 8:50-9:40  
Fridays 11:00-11:50

James Jirak  
Wednesdays 4:35-6:50

Evan Sherbrook  
Tuesdays to be announced  
Wednesdays 8:50-9:40  
Fridays 8:50-9:40

**Matt’s Schedule:**

Matt Bowman this spring is lecturing for two courses Chem 343 and Chem 345. There are 220 students in 343 and 200 students in 345. Matt will try to keep everything straight, but will not remember necessarily which student is in which lecture. These lectures are are back to back in the same lecture hall. Because he has to split his mind to deal with each class, he might not be completely there. There will be weeks in which there will be an exam happening for both classes. At which point, any vestiges of his sanity will disappear and there will be drool, *lots and lots of drool.* (His sanity is not being helped much right now as Matt Bowman is writing in the third person). Please state in any email correspondence with him whether you are in 343 or 345. The answer to your questions may differ significantly. Please be patient. If he does not respond within 12 hours, try again. There will be separate office hours for 343 and 345. Please come to the correct one.
**Textbook**: *Organic Chemistry, 5th Ed.*, Marc Loudon

Quite a few of my course evaluations in the past stated that they never read or opened the book. I do not recommend this course of action, but I do understand it. I follow a different order than the textbook, but the material from Chapters 1-11 and 14-15 will be covered. The course schedule has page numbers containing relevant information from the text along with key words that you can use in an index of any organic textbook for other explanations. Copies of the textbook are on reserve in the chemistry library for you to read. Instructors of Chem 344 and 345 may expect you to have this textbook for these future courses. Exams and quizzes are based on the material from lectures, power point tutorials, video lectures, discussion sections, and problem sets. The book is there to provide alternative explanations/approaches to help you understand the material covered.

**Powerpoint tutorials**
There is some subject matter that can be best explained by the book or a simple powerpoint tutorial. These tutorials are available at Learn@UW. Please go through them by the indicated date on the course schedule. If you do not have access to powerpoint, there is a computer lab in Chemistry 1375. These computers have powerpoint. The lab is open from 8:30 am to 6:30 pm Monday through Thursday and is open from 8:30 am to 4:30 pm on Friday.

**Video lectures**
Learn@UW will host a variety of video lectures. These are typically 5-10 minutes long. They are there to highlight important concepts or clarify points in organic chemistry.

**Problem sets**
There will be a problem set for each lecture day except for the day of an exam or the day preceding an exam. These problem sets will not be graded and are there to help you out. Keys will be available by the next lecture day on Learn@UW.

**Practice exams**
I will make at least three practice exams available for each exam. The exams will be very similar to the practice exams in terms of directions. Answer keys for these exams will also be available. **DO NOT SIMPLY LOOK AT THE KEY. ATTEMPT THE PRACTICE EXAM FIRST. HAVE ANOTHER STUDENT IN THE CLASS GRADE IT AS YOU GRADE THEIRS. DISCUSS DISCREPANCIES AND ONLY THEN LOOK AT THE KEY.**
Grading (As transparent as I can be):
The grade will be based on exams participation points.
The maximum number of points possible will be **630 points**.
(There will be more than that available).

**ABCDF SIMPLY STATED**
If you earn 90% of the total points, you will receive an A.
If you earn 77% of the total points, you will receive *at least* a B.
If you earn 57% of the total points, you will receive *at least* a C.
If you earn 40% of the total points, you will receive *at least* a D.

So if you receive an 88%, this can be an A, AB, or B depending on the final distribution. 89.5% is considered to be 90%.
89.499999999999999999999999999999999999% is considered to be 89%. That is just how it is.

The actual lines are determined by a mixture of factors: final distribution (point gaps between student scores), the historical grade history of all of the sections of Chem 343, the phase of the moon, where the darts end up on the board, improvement in the course, etc...
There are a few things that I can say with certainty:
The 40% line is a hard line. Any score below that will be an F. *Regardless what exam averages are.*
The C line will never be lowered below 50%. A 52% may be a C or D. Confusion about curves and AB’s and BC’s. The AB range and BC range is very small. Historically for organic chemistry it is small. For my classes, it has typically been one or two percentage points.

The cutoffs represented above are the curve. This is based on several semesters of organic chemistry, so you know how you are doing throughout the semester. The lines may dip a little, but not much. Especially the A line. The last few times I’ve taught, it has barely budged. Please do not be surprised if your total points are 85% and your letter grade is a B. If the lines are lowered, they will be lowered so that **25% of the class will receive at least an AB and at least 55% of the class will receive at least a BC.** The DF line will not move and the C line will never dip below 50%.

The Final Cutoffs will not be released. There will always be someone with the highest AB, highest B, and so on. That is the way of the world. It is conceivable that someone will miss a cutoff by one point. We will try to choose the cutoffs so that does not happen. **There will not be any extra credit offered.**
Exams:
There are four regular exams plus the final exam. Each regular exam will be worth 100 points. The regular exams will be Wednesday evening exams held from 7:15 to 8:45 pm in a lecture hall to be posted on learn@UW on a handout called Exam Information Sheet. Please check your schedules for potential conflicts. The dates are February 11, March 11, March 25, and April 22. Please notify me ASAP by email of any conflicts so alternative arrangements can be made. Notifying me the week of an exam is NOT ADVISABLE as I will be cranky.

You may not drop any exam.
The final exam is worth 200 points and cannot be dropped. It will take place on Friday, May 15 from 5:05 pm to 7:05 pm. Unfortunately, this date is set by the University and I can only grant makeup exams in a VERY limited manner such as two exams within a 24 hour period. Please do not ask for a makeup exam due to airline tickets going home for the summer. I’m afraid that is not listed as a valid reason.

Exams will be graded and returned at the next lecture. PLEASE, PLEASE, PLEASE PICK THEM UP. LOOK AT THEM. MAKE SURE THE SCORES WERE ENTERED CORRECTLY AND THAT YOU UNDERSTAND WHAT YOU MISSED.

Exam regrade policy: Mistakes in exam grading will occasionally be made. You will have one week after exams are returned to submit the entire exam for regrading. Keep in mind, since mistakes may or may not be in your favor, the exam grade can actually be lowered. All decisions on the regrades are final. DO NOT UNDER ANY CIRCUMSTANCES CHANGE AN ANSWER AND SUBMIT IT FOR A REGRADE. THIS IS ACADEMIC MISCONDUCT AND WILL BE DEALT WITH HARSHLY.

Regrade submittal procedure: Email Matt Bowman that you are submitting an exam for a regrade. Write on the exam score sheet which problem needs to be regraded and why. DO NOT CHANGE ANYTHING ELSE. Place the exam in Matt Bowman’s mailbox in Chemistry 1146.

Any student that falls just below a cutoff will have their final exam automatically regraded.
Exam Penalties:
Though technically, the regular exams are worth 100 points apiece and
the final exam is worth 200 points, it is possible to score a negative
value on the exam. There are four exam penalties that you should be
aware of and AVOID at all costs. CONSIDER YOURSELF WARNED.

Texas Carbon Penalty (TCP): If one of your answers has a carbon
drawn that has five bonds to it, that is an affront to organic chemistry.
Such a blasphemous creation will result in a five point penalty in
addition to missing any points on that question.

Acid-Base Arrow Question (ABAQ): To describe what is happening
in a reaction, chemists used the curved arrow notation. This shows
the movement of electrons. The most important example of this is in
acid-base reactions. I will show you the answer to this question along
with examples of wrong answers. THIS IS THE ONE OF THE MOST
FUNDAMENTAL CONCEPTS IN ORGANIC CHEMISTRY. It is used in
343, 345, 344, biochemistry, etc... If you cannot answer this question,
then -5 points.

Name Penalty: The most important question on any exam is the one
that has you fill in the following blank:
Name:____________
Yet, the number of people that do not do this are staggering. (8% of
the exams last semester left this blank or missed it).
EIGHT PERCENT!!!!!!!! There is no excuse for this. So, this will be an
escalating penalty that CANNOT be appealed.

1.) You will need to write your name (First and Last) on the name
line appearing on the scoresheet and the page with problem
one.
2.) You will need to circle your TA’s name on the scoresheet.
3.) You will need to write the first two letters of your last name
(legibly) in a box. (NOT INITIALS)

You must do all three of these to avoid the Name penalty. This
penalty will be -2 pts for the first exam, -4 pts for the second, -6 pts
for the third, -8 pts for the fourth, and -10 pts for the final exam.

Time Penalty: Writing on the exam before the TA’s say start or after
time is called can be a five point penalty.
After that whole exam penalty rant, here is a photo of a cat.
Participation Points:
Part of your grade will be determined by participation. You can have a maximum of 30 participation points. With that said, there will be more than that many possible. I estimate about 60 participation points will be available, but again only 30 will count. There are a couple of ways that you can earn a participation point. The participation points will only be tallied on May 13 and not before then. Last semester, when the tally reached 30 points, people stopped participating. Hence, no tallying until the end of the semester.

iClickers: From time to time, there will be iclicker questions in lecture. If you get it right, you will receive a participation point. If you get it wrong then you will receive a half point. **You must register your iclicker on learn@UW. I will send you an email if your iclicker is not registered.**

Turn-In Problems: From time to time in the problem set, there will be a turn in problem. You will get a point if you attempt it and turn it in to Matt’s mailbox in Chem 1146 by the specified date and time. I will not announce a head of time if a turn in problem is in the problem set. So, it may be in your best interest to thumb through them when they are handed out. After removing names, some of these answers will be selected, scanned and posted. Later on, I will post why these were chosen and point out the common mistakes and misconceptions.

Electronic Homework: If you are a fan of electronic homework, then this option will be available to you, but it is not required. There will be a series of problems each week. You need to get at least half of them correct (you can attempt these problems multiple times) to get the participation points. Each weekly problem set will be worth one participation point (provided it is accomplished by the deadline). It costs $38, but I want to stress that it is not required. There will be plenty of other opportunities for participation points.

Discussion Attendance: Attending your **registered** discussion section is worth one point each day you attend. Going to a different section does not count. This is to discourage squatters.

Discussion Pop Quizzes: The TA’s will from time to time give a pop quiz without any warning. These can be worth 0,1, and 2 participation points. Please do not abuse the participation point system. Going to an earlier section seeing the quiz and then taking it in a later session or sharing the quiz questions with another student is academic misconduct.
Academic Misconduct

You are all adults. There is no reason to cheat, but plenty of reasons not to. An F in the course is one of many reasons. Cheat sheets, notes, textbooks, someone else's paper, iPods, cell phones, a crystal ball bearing the disembodied spirit of the Great Organic Chemist R. B. Woodward, etc... are prohibited from the exam. Use of these prohibited materials during an exam will result in a zero for the exam score. You will only be allowed pencils/pens and model kits for the exams.

A percentage of the exams will be photocopied. Should an answer be changed and submitted for a regrading, academic misconduct has occurred and the perpetrator will receive an F in the course and be reported to the Dean’s office.

I have been advised by the staff (some of them legal staff) that I cannot use pepper spray in dealing with wandering eyes. I will try to remember to remind the TAs proctoring the exams of that advice. If the TAs suspect anyone of this condition, they will announce for everyone to keep their eyes on their paper. If the problem persists, the TAs have the discretionary power to move any student suspected during an exam. **You must be above reproach.** Exams of adjacent students will be examined, and should there be ample evidence, lower exam scores including zeroes will be given to the perpetrator. Please fight against wandering eyes. Please shield your paper the best you can to remove any temptation from others.

Since it is possible that not all students will take the exam at the same time, it is theoretically possible for some students to receive advance knowledge of a quiz/exam. Students leaking test/quiz questions to other students that have not taken the exam is also regarded as academic misconduct and shall be dealt with accordingly.

Since iclickers will be used for points, there is the potential for academic misconduct there as well. Having someone click for you or using two or more iclickers during a single lecture is another example of academic misconduct. It will similarly be dealt with accordingly.

**THERE ARE NO ACCEPTABLE EXCUSES FOR ACADEMIC MISCONDUCT. I HAVE CAUGHT SEVERAL STUDENTS AND THEY NOW HAVE A DARK MARK ON THEIR PERMANENT RECORD. I HAVE NO SYMPATHY FOR THOSE THAT CHOOSE TO CHEAT.**
Study tips

Organic chemistry is very cumulative. Once you start, you cannot stop. (Oh and you need to start right away). Material on exam I will be tested again on exams II, III, IV, and the Final. Likewise, with subsequent topics. The problem sets will not only cover current material but past material as well.

Between 1-4 hours after each lecture, start the problem set. **Do not wait for the answer key to be posted to start the problem set.** Between 4-8 hours after each lecture, recopy your notes for that lecture. Look for the patterns.

In the course schedule, the relevant page numbers from the text are listed. The exams are going to be based on the material from the lectures, lecture notes, problem sets, and discussions. The text is there to help you understand the material. I strongly suggest that you read the relevant pages either before or after lecture.

Make flash cards. Carry these with you wherever you go. Flip through them throughout each day.

A very good way to study is to study in groups. Multiple problem sets will be available to work on along with several practice exams. I suggest you form groups to study in. You can go about this talking to classmates in discussion, lecture, etc... The sooner you set up these groups the better off you will be. If you wish a classroom to meet in, I can see about reserving one for you.

The best way to understand organic chemistry is constant practice. The TA's and I will do our best to provide quite a bit of practice in the form of problem sets and practice exams. Should you desire more practice, there are the problems at the end of each chapter in the book as well as multiple websites. Should you find a discrepancy in what the TA's, book, internet, or myself, please bring it to our attention immediately. It may be a case of a subtlety, an outright error, or an over generalization. Regardless, we'll try to explain the discrepancy.
**Discussion Sections:**
Due to the generous funding by the Madison Initiative for Undergraduates and the College of Letters and Science, we are able to offer discussion sections. There is a lot of material to cover, and little time to cover it. Sometimes, what I can briefly cover in the lecture will be better covered in your discussion section. The TAs in this course have experience in teaching organic chemistry, through labs, discussion sections, and tutoring. They may have a different way of looking at a topic. As a result, if you do not understand something from me, you may understand it from them. All discussion sections are held in the chemistry building.

Section 301 Mondays 2:25-3:15 B351 Evan Sherbrook
Section 302 Mondays 2:25-3:15 B357 James Jirak
Section 303 Mondays 3:30-4:20 2311 James Jirak
Section 304 Mondays 3:30-4:20 B357 Jordan Ho
Section 305 Mondays 3:30-4:20 2373 Evan Sherbrook
Section 306 Mondays 4:35-5:25 2311 James Jirak
Section 307 Mondays 4:35-5:25 B379 Jordan Ho
Section 308 Mondays 4:35-5:25 2373 Evan Sherbrook
Section 309 Mondays 5:40-6:30 2311 James Jirak
Section 310 Mondays 5:40-6:30 2307 Jordan Ho

**Proper use of discussion sections:**
Make mistakes. People learn from mistakes. Be vocal. Go to the front of the board and write your answers. If they are correct, congratulations. If they are incorrect, *all the better* as it gives an opportunity to learn something and help out your fellow classmates. Remember, you are only really judged by your exams. Not your peers. Do not be afraid making mistakes. Better to make them in discussion than on an exam. There are many correct answers in organic chemistry (and many more incorrect ones). The TA’s are there to give insight on the nuances of organic chemistry.

Get to know your fellow students. Set up study sessions with them. Try problems from problem sets independently and then consult on the answers before looking at the answer key. Try teaching each other.

**Improper use of discussion sections:**
Just sitting there.
**Additional Help**

In addition to the TA's and my office hours, there are a couple of places where you can find assistance.

The Organic TA Office is in room B317. There is a schedule posted outside the door of various TA's and when they will be available to help you. Feel free to ask any of them for help even if they are not a TA for Chem 343.

Alpha Chi Sigma Chemistry Fraternity has offered tutoring for chemistry classes in the past. Please contact them about their current help sessions.

GUTS offers tutors as well. They can be contacted at:
Student Activity Center
Office #4413
333 E Campus Mall
Madison, WI 53715-1380
Phone: 608-263-5666
E-mail: guts@rso.wisc.edu
http://guts.studentorg.wisc.edu/

There are also private tutors available. The General Chemistry Office (Room 1328) has a list of tutors and prices.

There are also private tutors available. The General Chemistry Office (Room 1328) has a list of tutors and prices. If you do work with a tutor, please let them know that I post notes, problem sets, practice exams, and tutorials on Learn@UW. Anyone can access the Learn@UW Chem 343 site by using the visitor login. They should go to learnuw.wisc.edu and click on visitor login.

**USER NAME:** orgchem.pseudo
**PASSWORD:** orgchem.pseudo

They will be able to access any handouts using that login.
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**Notes:**

- Lectures are from 9:55-10:45 44 days
- Discussions are on Mondays
### FEBRUARY 2015

#### Chem 343

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<td>Alkanes Conformations Pages 46-86</td>
<td>Cyclic alkanes Pages 268-297</td>
<td>Bronsted-Lowry Acid/Base Chemistry Pages 87-121 and 355-360</td>
<td>Spot Checks Union South 4-7 PM</td>
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#### NOTES:

Spot Checks are a chance to bring in completed practice exams for Matt to look over. There are many correct answers (and many more incorrect ones). We cannot put every correct answer on an answer key, so this is a chance to see if your idea is right or why it is not.
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<td>Carbocation Rearrangements Pages 439-441</td>
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<td>SN2 vs. E2 Ether Synthesis Pages 482-483</td>
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<td>Alkynes C-C Bond Forming Reaction Pages 644-649, 662-668</td>
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**NOTES:**
Drop Date is March 20  
After Exam II, the pace of the course accelerates. If you do not have 100 exam points at this time, please consider dropping. It is rare for students to pass the class without having 100 points between the first two exams.
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**NOTES:**

Final Exams will be graded on May 16. The scores will be posted on May 17. Grades will be posted on May 18.
Add these numbers together:

946251.074373

0.43358
Chem 343: Survey

Please answer the following questions so I can adapt Chem 343 to better suit your needs. Please turn this page in to Matt Bowman's mailbox in Chemistry 1146 by January 31.

What is your year? (Freshman, Grad Student, Returning Adult, etc...)

What is your major?

What do you hope to get out of this class? (Besides a good grade)

When is the ideal time for office hours (day and time)?

Do you learn a lot from textbooks?

What other classes are you currently enrolled in?

Have you found electronic homework to be helpful in your other classes?