Chemistry 112A Organic Chemistry, Section 1 (Simocko)
Spring 2018

Contact Information

Instructor: Dr. Chester Simocko
Office Location: Duncan Hall 1 (basement)
Telephone: (408) (924-5496)
Email: chester.simocko@sjsu.edu
Office Hours: TR 10:30am – 12:00pm
Class Days/Time: Lecture TR 9:00am - 10:15am
Classroom: YUH 124
Prerequisites: CHEM 1B (with a grade of "C" or better; "C-") not accepted. Chem 1B may not be taken concurrently with Chem 112A.

Faculty Web Page and MYSJSU Messaging
Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on the Canvas and Top Hat site associated with Chemistry 112A. I will also use the email address listed on your mySJSU account regularly to send information on Chem 112A. You are responsible for checking for messages on this email and the Chem 112A Canvas site on a regular basis to learn of any updates.

Course Description
Chemistry 112A is intended for students who are interested in a profession in science, engineering, forensics, and related fields. This one-year course sequence (along with Chemistry 112B) will introduce you to the concepts that will lead to a comprehensive understanding of organic chemistry. This course will stress an understanding of these concepts as well as their applications to solve problems. While some memorization of the course material will be required, you will also be expected to apply the underlying principles in the context of problem solving. An emphasis will be placed on a thorough conceptual and mechanistic understanding of organic reactions. Note that all exams are cumulative for prior material, thus in lecture and exams it is important to recall information that was covered earlier. The final exam will be comprehensive for all material covered this semester. The Course and Program Learning Objectives below give a comprehensive list of topics covered in Chem 112A.
Course Goals and Learning Objectives

• Appreciation for the nature and scope of organic chemistry.
• Application of key concepts from general chemistry including electronegativity, bonding (ionic and covalent), hybridization of atomic orbitals, and molecular orbital theory to organic systems.
• Draw valence bond and Lewis dot structures for organic species, including formal charges.
• Draw skeletal structures for organic compounds, show stereochemistry clearly.
• Apply acid-base concepts to organic systems; predict ordering of acid or base strength.
• Name alkanes, alkenes, polyenes, alkynes, alkyl halides, aromatic compounds and their various derivatives using systematic (IUPAC) nomenclature.
• Learn common names for some key chemicals.
• Use bond dissociation energies (BDE’s) to calculate reaction energetics.
• Determine oxidation states of organic chemicals.
• Draw reaction mechanisms for polar and radical processes.
• Recognize stereochemistry and be able to apply the Cahn-Ingold-Prelog system to designation of stereochemistry (E/Z or R/S).
• Apply stereochemistry to determination of reaction mechanism.
• Understand the fundamentals of reaction kinetics and be able to apply to the determination of reaction mechanism.
• Learn many of the reactions of alkanes, alkenes, polyenes, alkynes, aromatic compounds, and closely related species. Be able to both predict products and, in many cases, provide probable reaction mechanisms.
• Employ the reactions learned in designing multistep organic synthesis.
• Learn and be able to apply the material presented in Chapters 1-13 and 18-21 in the text as well as additional topics introduced in lecture.

Program Learning Outcome (PLO)
Chemistry 112A satisfies the following Program Learning Outcomes for the Chemistry Department:
#2 Demonstrate understanding of core concepts and to effectively solve problems in organic chemistry

Required* Texts/Readings
The text book that we will be using is called Organic I&II by Steven Forsey. You will have to purchase the electronic textbook and a one semester subscription (although a one year subscription is a better value and you will need it for CHEM 112B). You can purchase this directly from the Top Hat website below. I have included the ISBN numbers below.
Top Hat Textbook ISBN: 978-0-9948021-7-0
Top Hat 1 Semester Subscription ISBN: 978-0-9866151-0-8

We will be using the Top Hat (www.tophat.com) classroom response system in class. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message.

You can visit the Top Hat Overview (https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.
An email invitation will be sent to you by email, but if don’t receive this email, you can register
by simply visiting our course website: https://app.tophat.com/e/889063
Note: our Course Join Code is 889063

Top Hat will require a paid subscription, and a full breakdown of all subscription options
available can be found here: www.tophat.com/pricing.

Should you require assistance with Top Hat at any time, due to the fact that they require specific
user information to troubleshoot these issues, please contact their Support Team directly by way
of email (support@tophat.com), the in app support button, or by calling 1-888-663-5491.

Optional: A set of molecular models for organic chemistry (a kit by Maruzen is sold by the
SJSU Bookstore; other versions may be available from other sources).

A CHEAP organic chemistry textbook from amazon for additional practice problems (does not
need to be the latest of addition, this strongly recommended for chemistry/biochemistry majors).

Library Liaison
The King Library Liaison for Chemistry is Yen Tran (yen.tran@sjsu.edu).

Course Requirements and Assignments
Catalog Description Chemistry of the carbon compounds, both aliphatic and aromatic,
emphasizing underlying concepts. Prerequisite: CHEM 1B (with a grade of "C" or better;
"C-" not accepted).

->You must have completed Chem 1B with a grade of "C" or better; you may not take
Chem 1B concurrently with Chem 112A! If you are found to not have completed the
prerequisite, I may drop you from this course at any time during the semester.

The scheduled time for this course is TR 9:00am to 10:15am in Science 142.

Tentative Course Calendar:
A tentative schedule for the semester appears at the end of this document. It is likely that the
dates on which specific topics are covered may change depending on the pace of the lectures. If
so, this will affect the material covered on each exam. The only way to know what will be on an
exam is to be present for all lectures. Note in particular the dates for the Hour Exams and the
Final Exam, which are firm dates.

SJSU classes are designed such that in order to be successful, it is expected that students will
spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per
week), including preparing for class, participating in course activities, completing assignments,
and so on. More details about student workload can be found in University Policy S12-3 at

Course Attendance Policy
You are required to attend every class meeting of Chem 112A. DO NOT enroll in this class if
work or other issues prevent you from attending every class meeting. Lectures will go over key
points and supplement information from the textbook. Additionally, a significant amount of information that I will cover is not found in the textbook and will only be covered in lecture. In my experience, students who do not come to class regularly do poorly on exams and in this course. Please arrive in time for the 9:00am start of Chem 112A.

Dates for all exams are firm - enter these dates on your calendars now. In particular, note the final exam date: **Wednesday, May 16, 2018 @ 0715-0930** – do not make any other plans that prevent you from being present on that day and time (e.g. purchase tickets). **I will not give the exam at a different time if you are not present** (except for a verifiable medical emergency).

University policy F69-24: “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.”

**Grading Policy**

There will be 3 "Hour" exams (each approx. 60min) given throughout the semester, each with a maximum score of 125 points. If you take all 3 Hour Exams, the two highest scores will be used in the calculation of your grade. If you do not take one of the Hour exams, for any reason, this will be the score which will not be used in the grade calculation. The Hour exams will be will be given at the start of the lecture period. Plan to arrive on time when an exam is scheduled, since all exams will be collected at the same time, no extra time is provided if you start late.

The final exam will be comprehensive for all material covered in Chem 112A, and will be worth 150 points. This exam is required for everyone.

Homework will be done online through Top Hat and due at midnight before the class indicated on the schedule. Late homework will not be accepted. It will be available online one week prior to the due date. There will be 16 homework assignments each worth 25 points. Your homework scores will be averaged together. Only the highest scored 13 homework assignments will count in the grade calculation. Homework for Chapter 21 is a bonus homework, if you do it, you can get extra points (above a 100% HW average).

Pre-class reading assignments will be done through Top Hat and due at midnight before the class indicated on the schedule. These assignments consist of reading the chapter AND answering the questions assigned in the chapter. With the exception of the first chapter, these assignments are due BEFORE that chapter is covered in class. This will give you basic foundation which I will build on in lecture. Each assignment is worth 50 points and your total grade for this will the average of all assignments. Only the highest scored 13 will be counted in the grade calculation.

Class participation grades will be based on answering questions presented during the class via the Top Hat system (see above for details). There will be a 25 points available per class during the semester. These are not graded on correctness, only on participation. Your participation grade is an average of all of your class. Three (non-exam day) absences will be excused and will not count against you. To get the points for a given class, you must answer all of the questions during that period.

Your final grade will be based on:
25 (5%) points for class participation
25 (5%) points for online homework
50 (10%) points for pre-class reading assignment
250 (50%) points for two Hour exams (2 exams at 125 points each)
150 (30%) points for the Final (you can't drop the final)

TOTAL 500 points

Grades will be assigned on a "+/-" system. The course grades will be assigned according the following ranges:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>100-97%</td>
</tr>
<tr>
<td>A</td>
<td>96-93%</td>
</tr>
<tr>
<td>A-</td>
<td>92-90%</td>
</tr>
<tr>
<td>B+</td>
<td>89-87%</td>
</tr>
<tr>
<td>B</td>
<td>86-83%</td>
</tr>
<tr>
<td>B-</td>
<td>82-80%</td>
</tr>
<tr>
<td>C+</td>
<td>79-77%</td>
</tr>
<tr>
<td>C</td>
<td>76-73%</td>
</tr>
<tr>
<td>C-</td>
<td>72-70%</td>
</tr>
<tr>
<td>D+</td>
<td>69-67%</td>
</tr>
<tr>
<td>D</td>
<td>66-63%</td>
</tr>
<tr>
<td>D-</td>
<td>62-60%</td>
</tr>
<tr>
<td>F</td>
<td>≤59% Unsatisfactory</td>
</tr>
</tbody>
</table>

In order to estimate your current grade in this course and progress towards your course grade, keep track of your hour exam scores as the semester progresses. Add the points you obtained and divide by the total points scored up until that time to determine your % of points to that date. Compare the % to the table to estimate your current grade standing. Remember that your two highest hour exam scores will be used in your final course grade calculation. Note that the "class average" for a given exam is not necessarily a "C" grade. Grades are assigned by these grade ranges, not by "curves."

When exams are returned to you, you will often find written comments on incorrect answers. Read these carefully since they not only provide feedback on those exam questions, but are intended to guide you for future exams. The keys for every exam will be posted shortly after the exam is given, and this is also a source of information. Use this information for a self-assessment of your progress in Chem 112A. Ask me questions if you need clarification. However, I cannot give any indication or guarantee of a course grade before the end of the semester.

At the end of the semester, any modifications from the grade ranges above will be in your favor, but you should not expect significant changes from the ranges above. In assigning course grades, only one set of criteria are applied equally to all students in the class - everyone has the same opportunity as everyone else to earn their grade.

Note that "incomplete" grades will only be considered if you have an unexpected situation or emergency that prevents you from finishing the semester. It is required that you have completed most of the course work with a passing grade until that point. A typical situation is a medical emergency that prevents you from taking the final exam - to be considered you must provide documentation and a means to verify the emergency. Poor performance in the class or inability to keep up with the material is not an acceptable reason for an incomplete or to drop the class.

Exam Policies:
• Roll may be taken during exams.
• IDs may be randomly checked so always bring a picture ID (SJSU ID or driver's license)
• Seats will be assigned at my discretion.
•Calculators, computers, cellphones, or any other electronic devices that can photograph, record, and/or transmit images of any kind are NOT allowed at your desk during exams. These must be left in the front of the room. No notes or other sources of information are allowed. Anyone found violating this rule will receive, at minimum, an automatic score of "0 points" for the exam and this exam will be counted as one of the 2 hour exam scores (the second highest score will be dropped). Additional judicial sanctions will apply. See Academic Integrity section below for more details.

Other Class Policies:
•Audio Recording: audio (only) recording is allowed. Note I do not allow video recording. See also University Policies below.
•Cell Phones: Out of courtesy, turn off ringers and alarms during lectures and exams.
•Computers: You may use your laptop during class lectures only for taking notes or accessing electronic Chem 112A course material as long as they are not distracting (no playing video games or watching videos); computers are not allowed during exams.
•Exam Makeup and Regrade Policy:
You are required to take any 2 of the 3 Hour exams given. If an Hour exam is not taken for any reason, that exam will be the one exam score that is not used in grade calculation. A makeup will only be considered if you miss a second Hour exam due to an unforeseen emergency and provide a documented and verifiable reason. In all cases, you must contact me as soon as reasonably possible. Before any action will be taken, you will be required to provide a verifiable document describing your emergency with the doctor’s name and phone number. Note this only applies if you miss a second hour exam.

Absence due to personal or work related issues is not a reason to miss an exam. See the course attendance policy.

Any request for a regrade or recalculation of any exam or quiz must be made within one week after the exam is returned in class (if you are not in class the day it is returned, it is your responsibility to obtain your exam from me). No regrades will be considered beyond this time. The exam must be left with me, and I will review the entire exam.

The Final Exam is not returned, but may be viewed in the Spring semester during my office hours. Exams are locked away, so please make arrangements with me a few days in advance. The exams are shredded after one year.

•Emergencies and Building Evacuations
If you hear a continuously sounding alarm, or are told to evacuate the building by an Emergency Coordinator, walk quickly to the nearest exit (facing Tower Lawn). Take your personal belongings as you may not be allowed to return. Follow the instructions of the Emergency Coordinators. Be quiet so you can hear instructions. Once outside, move away from the building. Do not return to the building unless the Police or the Emergency Coordinator announces that this is permissible.

University Policies
As a student at SJSU, you should review these University Policies which apply to ALL university courses.

http://www.sjsu.edu/gup/syllabusinfo/#GeneralExpectations
The topics include the following:

General Expectations, Rights and Responsibilities of the Student
Dropping and Adding
Consent for Recording of Class and Public Sharing of Instructor Material
Academic integrity
Campus Policy in Compliance with the American Disabilities Act
Student Technology Resources
SJSU Peer Connections
SJSU Writing Center
SJSU Counseling and Psychological Services

In addition to the university policies above, I have additional policies that apply specifically to Chem 112A. Please note the following:

Consent for Recording of Class and Public Sharing of Instructor Material
Audio recording of lectures is allowed. I do not allow video recording of lectures. Much of the material I prepare for Canvas is prepared by me and is considered my personal property. It may not be shared with anyone who is not enrolled in Chem 112A.

Academic Integrity
Your commitment as a student to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Instances of academic dishonesty will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person’s ideas without giving proper credit) will result in a failing grade and sanctions by the University. For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include your assignment or any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Integrity Policy S07-2 requires approval of instructors.

For Chem 112A, any form of cheating or unfair advantage will be dealt with seriously in this course, and will result in an appropriate penalty. At minimum, an infraction will result in "0" points for that exam and it will count as one of two Hour Exam Scores (meaning the second highest exam score will be dropped); a grade of "F" for the course may also be given. The SJSU "Policy on Academic Dishonesty" as described in detail in the SJSU Catalog will be the guideline for any action taken, and the case will be referred to the SJSU Office of Judicial Affairs. The instructor or the SJSU Office of Judicial Affairs may apply more serious penalties. An infraction may also result in a student's name being placed in a Chemistry Department file and other sanctions.

Campus Policy in Compliance with the American Disabilities Act
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment
with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec/ to establish a record of their disability.

Note that accommodations for exams should be made well in advance of the exam date, since both I and the AEC need to make arrangements.

Advice for Students Taking Chem 112A (FROM other students!):
Over the years, I have asked students who have done well in Chem 112A and 112B what their "secrets" are - here are the most common responses:

-keep up with the course, don't ever fall behind
-attend every lecture and take copious notes (listen for hints)
-read the text before and after each lecture
-copy (by hand) your lecture notes soon after the class
-work problems immediately after they are discussed in class (there is no way to catch up if you try to do this just before the exam); do ALL of the problems in the book, problem sets on Canvas, and problems given in class.
--don't memorize answers to specific problems; you need to understand how to determine the answer from principles since questions can be posed in different ways (you need to be able to answer questions that look different from ones in problem sets).
-DO NOT wait until just before the exam to start learning the material!

The common theme to these tips is that they all require you to take responsibility and keep up with Chem 112A in a timely and consistent manner. You will likely hear much griping about how "difficult" O-chem is, but you typically don't hear from the students who follow the advice above and do well in the class. I can't promise success for everyone, but you will very likely do much better if you follow all of these tips listed.

Throughout the semester I will post problem sets and other useful information on the Chem 112A Canvas site (see "Files") - check this site regularly.

MY BEST ADVICE TO YOU:
If you feel at any point in the semester that you are "lost" or not doing as well as you like, come see me or take advantage of the available Resources listed below immediately for assistance. If you wait until right before an exam or until the last few weeks of classes, it will be very difficult to catch up due to the volume of material. Keeping up with the material and working the problems is very important to succeed in Chem 112A. However, it is also true that spending many hours studying does not necessarily equate to doing well on the exam - what is important that you understand the underlying principles and know how to apply them, not just memorize information or know how to answer specific problems from the textbook or sample exams.

Office Hours and Email Questions:
The University requires me to post 2 hours of office a week, but I regularly schedule at least 3 hours/week. My office hours are times dedicated to assist you and students in all of my courses. They are usually quiet except immediately before exams, so if you have questions, see me well before an exam when my office is relatively open. Many students show up in office just before each exam - during these times I can only handle a limited number of questions. I will also
schedule additional problem or review sessions when I can fit them in to my schedule – watch for announcements in class.

The faculty-to-student ratio for Chem 112A is very high for an upper division organic chemistry course. To maximize the number of student questions, all office hours will be "group" sessions. During office hours, enter my office even if other students are already present (if space allows) - don't wait in the hallway. If a student has a private matter, I will handle this individually. Please also realize that office hours are for all of the courses I teach, not only Chem 112A.

I will not reply to emails regarding:
- exam scores, course grades or personal matters (see me in person)
- questions on the specific topics to be covered in an exam (this information is given in lecture, which you are required to attend)

OTHER RESOURCES:

-COSAC (College of Science Student Advisory Center) has student tutors who are available for walk-in or scheduled assistance with questions - http://www.science.sjsu.edu/cosac/ NOTE: they get very busy just before our exams!
- Academic Workshops are primarily problem-solving sessions
- Peer Connections Resource Center (http://peerconnections.sjsu.edu/)

All SJSU faculty have the ability to refer students who may need assistance in a specific course to Peer Connections, which has additional means of support besides tutoring. If you receive a message from Peer Connections, I recommend you follow up, as they may be able to assist you!

CHEMISTRY 112A - ORGANIC CHEMISTRY (Simocko)
Spring 2018

Tentative Schedule (topics subject to change)*
Changes will be announced only in class.

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter Title</th>
<th>Reading in Text</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 25</td>
<td>Structure and Bonding</td>
<td>Chapter 1</td>
<td></td>
</tr>
<tr>
<td>Jan 30</td>
<td>Structure and Bonding</td>
<td>Chapter 1</td>
<td>Chapter 1 pre-class reading</td>
</tr>
<tr>
<td>Feb 1</td>
<td>Nomenclature</td>
<td>Chapter 2</td>
<td>Chapter 2 pre-class reading</td>
</tr>
<tr>
<td>Feb 6</td>
<td>Nomenclature</td>
<td>Chapter 2</td>
<td>Chapter 1 HW</td>
</tr>
<tr>
<td>Feb 8</td>
<td>Chemical Reactivity and Mechanisms</td>
<td>Chapter 3</td>
<td>Chapter 3 pre-class reading</td>
</tr>
<tr>
<td>Feb 13</td>
<td>Chemical Reactivity and</td>
<td>Chapter 3</td>
<td>Chapter 2 HW</td>
</tr>
<tr>
<td>Date</td>
<td>Chapter Title</td>
<td>Reading in Text</td>
<td>Assignment</td>
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<tr>
<td>Feb 15</td>
<td>Mechanisms</td>
<td>Chapter 4</td>
<td>Chapter 4 Pre-class reading</td>
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<tr>
<td>Feb 20</td>
<td><strong>Hour Exam #1</strong></td>
<td></td>
<td>Chapter 3 HW</td>
</tr>
<tr>
<td>Feb 22</td>
<td>Conformations of Acyclic Alkanes and Cyclohexanes</td>
<td>Chapter 5</td>
<td>Chapter 5 pre-class reading</td>
</tr>
<tr>
<td>Feb 27</td>
<td>Conformations of Acyclic Alkanes and Cyclohexanes</td>
<td>Chapter 5</td>
<td>Chapter 4 HW</td>
</tr>
<tr>
<td>Mar 1</td>
<td>Stereochemistry</td>
<td>Chapter 6</td>
<td>Chapter 6 pre-class reading</td>
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<tr>
<td>Mar 6</td>
<td>Stereochemistry</td>
<td>Chapter 6</td>
<td>Chapter 5 HW</td>
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<tr>
<td>Mar 8</td>
<td>SN2 Reactions</td>
<td>Chapter 7</td>
<td>Chapter 7 pre-class reading</td>
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<tr>
<td>Mar 13</td>
<td>SN1 Reactions and Distinguishing the Difference</td>
<td>Chapter 8</td>
<td>Chapter 8 pre-class reading</td>
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<tr>
<td>Mar 15</td>
<td>E1 Reactions to form Alkenes</td>
<td>Chapter 9</td>
<td>Chapter 9 pre-class reading</td>
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<tr>
<td>Mar 20</td>
<td><strong>Hour Exam #2</strong></td>
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<td>Chapter 7 HW</td>
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<tr>
<td>Mar 22</td>
<td>E2 reactions to form Alkenes</td>
<td>Chapter 10</td>
<td>Chapter 10 pre-class reading</td>
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<tr>
<td>Apr 3</td>
<td>Substitution – Elimination: Discerning the Difference</td>
<td>Chapter 11</td>
<td>Chapter 11 pre-class reading</td>
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<td>Apr 5</td>
<td>Alkenes</td>
<td>Chapter 12</td>
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<td>Apr 10</td>
<td>Alkenes</td>
<td>Chapter 12</td>
<td>Chapter 11 HW</td>
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<td>Apr 12</td>
<td>Alkynes</td>
<td>Chapter 13</td>
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<td>Apr 17</td>
<td>Radicals</td>
<td>Chapter 18</td>
<td>Chapter 18 pre-class reading</td>
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<td>Apr 19</td>
<td><strong>Hour Exam #3</strong></td>
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<td>Chapter 13 HW</td>
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<td>Apr 24</td>
<td>Conjugated Systems</td>
<td>Chapter 19</td>
<td>Chapter 19 pre-class reading</td>
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<tr>
<td>Apr 26</td>
<td>Conjugated Systems</td>
<td>Chapter 19</td>
<td>Chapter 18 HW</td>
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<tr>
<td>May 1</td>
<td>Aromatic Compounds</td>
<td>Chapter 20</td>
<td>Chapter 20 pre-class reading</td>
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<tr>
<td>Date</td>
<td>Chapter Title</td>
<td>Reading in Text</td>
<td>Assignment</td>
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<tr>
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<tr>
<td>May 3</td>
<td>Reactions of Aromatic Compounds</td>
<td>Chapter 21</td>
<td>Chapter 21 pre-reading</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Chapter 19 HW</td>
</tr>
<tr>
<td>May 8</td>
<td>Reactions of Aromatic Compounds</td>
<td>Chapter 21</td>
<td>Chapter 20 HW</td>
</tr>
<tr>
<td>May 10</td>
<td>Reactions of Aromatic Compounds</td>
<td>Chapter 21</td>
<td>Chapter 21 HW (Due May 17)</td>
</tr>
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**May 16 (Wed), 2018  FINAL EXAM  0715 to 0930**

*It is highly likely the dates of coverage of topics may change, depending on the pace of lectures. Any changes from the schedule will only be announced in class.  Note attendance is mandatory for every lecture.

**Unless there is a serious calamity, ALL EXAM DATES ARE FIRM. Mark these dates and times on your calendars NOW!**