Chemistry 112B Organic Chemistry
Spring 2016

Contact Information

Instructor: Roy K. Okuda, PhD
Office Location: Duncan Hall 9A (basement)
Telephone: (408) (924-2525)
Email: roy.okuda@sjsu.edu
Office Hours: Tues 3:00 to 4:25pm; Wed 10:30 - Noon
Class Days/Time: Lecture TR 9:00am - 10:15am
Classroom: Science 142
Prerequisites: CHEM 112A (with a grade of "C" or better; "C-" not accepted).

Faculty Web Page and MYSJSU Messaging

Course materials such as syllabus, handouts, notes, assignment instructions, etc. can be found on my Canvas page for this course. I will also use the email address listed on your mySJSU account regularly to send information on Chem 112B (make sure your email is current). You are responsible for checking for messages on this email on a regular basis to learn of any updates. Many important files will be posted to Canvas, so be sure you can access Canvas from your computer. If not, ask me for information to gain access.

Course Description

Chemistry 112B is the second semester of the full-year sequence of Organic Chemistry, and may be taken only by students who have completed Chemistry 112A and received a grade of "C" or better. Chem 112B may not be taken concurrently with Chem 112A. While most of the basic concepts were introduced in Chemistry 112A, in this course we will spend a greater amount of time on the applications of those concepts while continuing to explore the classes and reactions of organic compounds. While some memorization of the course material will be required, you will also be expected to apply the underlying principles (especially in the context of exam questions). To a greater extent than in the first semester, an emphasis will be placed on a mechanistic understanding of organic reactions. It is also important to note that while the exams will emphasize the most recent topics covered in class, you will be expected to have a
thorough understanding of all material covered in Chemistry 112A, and may be asked questions on material from Chem 112A at any time. Note that the final exam will be a comprehensive exam that will include all material from both Chem 112A and Chem 112B. Information on the final exam will be provided prior to the final exam.

Course Goals and Learning Objectives

Course Learning Outcomes (CLOs)

• Demonstrate understanding of core concepts and to effectively solve problems in organic chemistry.
• An understanding and ability to apply all material covered in Chem 112A (McMurry Chapters 1 to 16)
• 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 and oxidation numbers.
• Draw structures for organic compounds in a variety of methods (including, but not limited to, line-bond, Lewis Dot, dash/wedge, Fisher, Haworth projections); show stereochemistry and regiochemistry accurately.
• Apply acid-base concepts to organic systems; predict ordering of acid or base strength; understand the roles of acids and bases in reaction mechanisms.
• Name the various forms of carbonyl-containing compounds, amines, carbohydrates, lipids, nucleic acids, amino acids and their various derivatives using systematic (IUPAC) nomenclature.
• Learn common names and acronyms for key chemicals and solvents.
• Understand the concept and definitions of aromaticity.
• Draw products and reaction mechanisms for many reactions including all reactions from Chem 112A, aromatic compounds, alcohols, phenols, thiols, ethers, sulfides carbonyl-containing compounds, amines, carbohydrates, amino acids, lipids. Nucleic acids.
• Recognize stereochemistry and be able to apply the Cahn-Ingold-Prelog system to designation of stereochemistry (E/Z, R/S, $re/si$).
• Apply stereochemical aspects to reaction mechanism.
• Understand the fundamentals of reaction kinetics and be able to apply to the determination of reaction mechanism.
• Employ the reactions learned in designing multistep organic synthesis.
• Learn and be able to apply the material presented in Chapters 17 - 28 in the text (McMurry, 9th edition) as well as additional topics presented in lecture. Knowledge and application of information presented in Chem 112A (Chapters 1 to 16) is also expected.

Program Learning Outcomes (PLOs)

Chemistry 112B 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**

**Textbook and Forms**

2. Three total Scantron 2020 forms (for hour exams) and one Scantron T&E 200 form for the final exam.

*Optional, but highly recommended:*

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

**Library Liaison**

The Chemistry Library Liaison is Ann Agee (ann.agee@sjsu.edu)

**Course Requirements and Assignments**

**Catalog Description** Continuation of CHEM 112A. Prerequisite: CHEM 112A (with a grade of "C" or better; "C-" not accepted).

*You must complete Chem 112A with a grade of "C" or better; you may not take Chem 112A concurrently with Chem 112B!*

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. Note in particular the dates for the three Hour Exams and Final Exam.

**FINAL EXAM  Thursday, May 19  0715-0930  in Science 142**

Mark these dates on your calendars now. Do not arrange any travel, personal, or business absences on these 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 http://www.sjsu.edu/senate/docs/S12-3.pdf.

**Attendance Policy**

*You are required to attend every class meeting for this section of Chem 112B. DO NOT enroll in this class if you cannot attend every class session due to work or other commitments. Lectures will supplement information from the textbook. Additionally, a significant amount of information is not from the textbook and will only be covered in lecture. Please arrive in time for the 9:00am start of Chem 112B.*
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

GRADING (see below for numerical breakdown and percentages)

There will be 3 "Hour" exams (each approx. 60min) given throughout the semester, each with a maximum score of 150 points. The Final exam will be worth a total of 200 points. You are required to take any two Hour Exams. 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 BOTH semesters Chem 112A and 112B, and will be worth 200 points.

Your final grade will be based on:
- 300 points for two Hour exams (2 x 150 points)
- 200 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>A+ = 100-97%</th>
<th>A = 96-93%</th>
<th>A- = 92-90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>B+ = 89-87%</td>
<td>B = 86-83%</td>
<td>B- = 82-80%</td>
</tr>
<tr>
<td>C+ = 79-77%</td>
<td>C = 76-73%</td>
<td>C- = 72-70%</td>
</tr>
<tr>
<td>D+ = 69-67%</td>
<td>D = 66-63%</td>
<td>D- = 62-60%</td>
</tr>
<tr>
<td>F = &lt;69%</td>
<td></td>
<td>Unsatisfactory</td>
</tr>
</tbody>
</table>

Any modifications will be in your favor, but you should not expect significant changes. 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."

It is possible to do poorly on one exam, but you may improve your overall grade by doing well in another exam, especially since one exam is not counted. In assigning 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 - to be considered you must provide information 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 at any time during exams.
•IDs may be randomly checked so always bring a picture ID.
•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.

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 these off during lectures.
•Computers: You may use your laptop during class lectures only for taking notes or accessing electronic Chem 112B course material (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 counted. A makeup will only be considered if you miss a second Hour exam due to an unforeseen emergency and provide a verifiable reason. In all cases, you must contact me as soon as reasonably possible. Before any action may 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 be excused from 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.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the
current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

**Consent for Recording of Class and Public Sharing of Instructor Material**

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course.

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor’s permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”
- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”

**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 112B, 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 should be made well in advance of an exam, since both I and the AEC need to make arrangements.

• 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.

Following are resources that are available to all students. They may apply to this course as well as other courses you are taking.

• General Expectations, Rights and Responsibilities of the Student Policy

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU’s policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See University Policy S90–5 at http://www.sjsu.edu/senate/docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog, at http://info.sjsu.edu/web-dbgen/narr/catalog/rec-12234.12506.html. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Student Technology Resources

Computer labs for student use are available in the Academic Success Center at http://www.sjsu.edu/at/asc/ located on the 1st floor of Clark Hall and in the Associated Students Lab on the 2nd floor of the Student Union. Additional computer labs may be available in your department/college. Computers are also available in the Martin Luther King Library.
A wide variety of audio-visual equipment is available for student checkout from Media Services located in IRC 112. These items include DV and HD digital camcorders; digital still cameras; video, slide and overhead projectors; DVD, CD, and audiotape players; sound systems, wireless microphones, projection screens and monitors.

**SJSU Peer Connections**

Peer Connections, a campus-wide resource for mentoring and tutoring, strives to inspire students to develop their potential as independent learners while they learn to successfully navigate through their university experience. You are encouraged to take advantage of their services which include course-content based tutoring, enhanced study and time management skills, more effective critical thinking strategies, decision making and problem-solving abilities, and campus resource referrals.

In addition to offering small group, individual, and drop-in tutoring for a number of undergraduate courses, consultation with mentors is available on a drop-in or by appointment basis. Workshops are offered on a wide variety of topics including preparing for the Writing Skills Test (WST), improving your learning and memory, alleviating procrastination, surviving your first semester at SJSU, and other related topics. A computer lab and study space are also available for student use in Room 600 of Student Services Center (SSC).

Peer Connections is located in three locations: SSC, Room 600 (10th Street Garage on the corner of 10th and San Fernando Street), at the 1st floor entrance of Clark Hall, and in the Living Learning Center (LLC) in Campus Village Housing Building B. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.

**SJSU Writing Center**

The SJSU Writing Center is located in Clark Hall, Suite 126. All Writing Specialists have gone through a rigorous hiring process, and they are well trained to assist all students at all levels within all disciplines to become better writers. In addition to one-on-one tutoring services, the Writing Center also offers workshops every semester on a variety of writing topics. To make an appointment or to refer to the numerous online resources offered through the Writing Center, visit the Writing Center website at http://www.sjsu.edu/writingcenter. For additional resources and updated information, follow the Writing Center on Twitter and become a fan of the SJSU Writing Center on Facebook. (Note: You need to have a QR Reader to scan this code.)

**SJSU Counseling Services**

The SJSU Counseling Services is located on the corner of 7th Street and San Fernando Street, in Room 201, Administration Building. Professional
psychologists, social workers, and counselors are available to provide consultations on issues of student mental health, campus climate or psychological and academic issues on an individual, couple, or group basis. To schedule an appointment or learn more information, visit Counseling Services website at http://www.sjsu.edu/counseling.

Advice for Students Taking Chem 112B (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 the 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 and provided problem sets and in-class problems
--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.
-what NOT to do is to wait until just before the exam to start learning the material!

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 items. [IMPORTANT: you have to follow all of the items, not just some!]

I will occasionally post problem sets and other information on the Chem 112B Canvas site (see "Files") - check this page periodically.

MY BEST ADVICE TO YOU:
If you feel at some 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 112B. 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 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 early and not wait until the pre-exam rush, when many students show up - I can answer only a limited number of questions from a large crowd.
I am also open to email questions at any time, so you do not have to wait until the next office hour. Unless I'm traveling, I try to answer emails 7 days a week, and usually reply within a day (understand that I usually answer these emails on my personal time - I do my best to reply in a timely manner but may not be available every evening or weekend). This service is there for you to use, but you have to take the initiative!

My email is roy.okuda@sjsu.edu (put "112B" in the subject line so I know it's not spam)

Some important points regarding email questions:

- If your question is related to a point in the textbook, include the page number or problem number. I don't carry the book with me at all times, so sometimes I may have to wait until I have a copy of the text in hand.
- This service is intended for a reasonable number of questions. If you need many questions answered, I will ask you to come to office hours.
- Note that I have a great deal of work to prepare each exam, so I may not get to questions in the day or two immediately before each exam.
- Email is only for questions about course material and problems. I do not reply to email messages regarding grades or personal matters - you must see me in person for such issues.
- Prior to each exam, in lecture (mandatory) I always will give you the limits of the topics to be covered in the exam - emails asking what topics will be included in an exam will not receive a response from me.

**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/
- Academic Workshops are primarily problem-solving sessions
- Peer Connections Resource Center

**Note I do not have any oversight on these resources.**
### CHEMISTRY 112B - ORGANIC CHEMISTRY (OKUDA)

**T/R Section - SPRING 2016**

*Tentative Schedule (subject to change)*

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading in McMurry</th>
</tr>
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<tbody>
<tr>
<td>Jan 28</td>
<td>Review of 112A Key Reactions</td>
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<tr>
<td>Feb 2</td>
<td>Benzene Reactions; Alcohols &amp; Phenols</td>
<td>16: 5-10; 17: 1 - 5</td>
</tr>
<tr>
<td>Feb 4</td>
<td>Alcohols &amp; Phenols</td>
<td>17: 6 - 10</td>
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<tr>
<td>Feb 9</td>
<td>Ethers, Epoxides, Thiols, Sulfides</td>
<td>18: 1 - 8</td>
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<tr>
<td>Feb 11</td>
<td>Carbonyl Preview: Aldehydes &amp; Ketones</td>
<td>pp. 595-603; 19: 1 - 3</td>
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<tr>
<td>Feb 16</td>
<td>Aldehydes &amp; Ketones</td>
<td>19: 5 - 9</td>
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<tr>
<td>Feb 18</td>
<td>Aldehydes &amp; Ketones</td>
<td>19: 11 -13</td>
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<tr>
<td>Feb 23</td>
<td>Carboxylic Acids &amp; Nitriles</td>
<td>20: 1 - 4</td>
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<tr>
<td>Feb 25</td>
<td>Hour Exam 1</td>
<td></td>
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<tr>
<td>Mar 1</td>
<td>Carboxylic Acids &amp; Nitriles</td>
<td>20: 5 - 7</td>
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<td>Mar 3</td>
<td>Carboxylic Acid Derivatives</td>
<td>21: 1 - 4</td>
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<td>Mar 8</td>
<td>Carboxylic Acid Derivatives</td>
<td>21: 5 - 7</td>
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<tr>
<td>Mar 10</td>
<td>Carboxylic Acid Derivatives</td>
<td>21: 8 - 9</td>
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<tr>
<td>Mar 15</td>
<td>Carboxyl α-substitution Rxns</td>
<td>22: 1 - 4</td>
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<td>Mar 17</td>
<td>Carboxyl α-substitution Rxns</td>
<td>22: 5 - 7</td>
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<tr>
<td>Mar 22</td>
<td>Carbonyl Condensation Rxns</td>
<td>23: 1 - 5</td>
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<tr>
<td>Mar 24</td>
<td>Hour Exam 2</td>
<td></td>
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<tr>
<td>Mar 28 -</td>
<td><strong>SPRING BREAK!!</strong></td>
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<td>Apr 1</td>
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<tr>
<td>Apr 5</td>
<td>Carbonyl Condensation Rxns</td>
<td>23: 6 - 9</td>
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<tr>
<td>Apr 7</td>
<td>Carbonyl Condensation Rxns</td>
<td>23: 10 - 13</td>
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<tr>
<td>Apr 12</td>
<td>Amines</td>
<td>24: 1 - 4</td>
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<tr>
<td>Apr 14</td>
<td>Amines</td>
<td>24: 5 - 9</td>
</tr>
<tr>
<td>Apr 19</td>
<td>Carbohydrates</td>
<td>25: 1 - 6</td>
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<tr>
<td>Apr 21</td>
<td>Carbohydrates</td>
<td>25: 7 - 11</td>
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<tr>
<td>Apr 26</td>
<td>Amino Acids &amp; Proteins</td>
<td>26: 1 - 11</td>
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<tr>
<td>Apr 28</td>
<td>Amino Acids &amp; Proteins</td>
<td>26: 1 - 11</td>
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<tr>
<td>May 3</td>
<td>Hour Exam 3</td>
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<tr>
<td>May 5</td>
<td>Lipids and Natural Products</td>
<td>27: 1 - 7</td>
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<tr>
<td>May 10</td>
<td>Biomolecules: Nucleic Acids</td>
<td>28: 1 - 8</td>
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<td>May 12</td>
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*any changes may be announced only in class. It is your responsibility to be aware of any changes!*

**May 19 (Thursday) 0715 - 0930**  
**FINAL EXAM**

Your Final Exam will be a standardized exam, and everyone in this section must take it at the same date and time. *Mark this date and time on your calendars NOW!*