San José State University  
Chemistry Department  
Chem 030B, Intro Chem., Section 01, Spring 2017

Course and Contact Information

Instructor: Melody Esfandiari, Ph.D.
Office Location: DH 517
Telephone: Email is preferred
Email: Via canvas
Office Hours: MW 10:00 am – 11:00 am, 2:30 pm – 3:30 pm
Class Days/Time: MW 8:30 – 9:20 am
Classroom: WSQ 109
Perquisite: Chem 30A or Chem 1A (with a grade of “C” or better)

Please check your canvas periodically as handouts/online quizzes will be uploaded or emailed via Canvas.

Faculty Web Page and MYSJSU Messaging
Course materials such as syllabus, handouts, notes, assignment instructions, etc. may be found by logging on to Canvas at https://sjsu.instructure.com/courses. You are responsible for regularly checking with the messaging system through MySJSU/canvas to learn any updates.

Course Format
This course has a lab component, which complements lecture. Lab meets once a week; lab attendance is mandatory.

Course Description
Organic compounds produced both in nature and artificially and the reactions they undergo, particularly in the human. Prerequisite: CHEM 030A or CHEM 001A (with a grade of "C" or better; "C-" not accepted). Misc/Lab: Lecture 2 hours/lab 3 hours. Notes: No credit toward Chemistry major or minor.

Learning Outcomes

Student Learning Outcomes (SLO)
Upon successful completion of this course, students will be able to:

1. SLO 1: gain a general understanding of nomenclature rules, chemical structure, and chemical properties of organic compounds.
2. SLO 2: extend the aforementioned principles to biochemistry; which is, for the most part, the organic chemistry of living systems.

3. SLO 3: understand the role that various biochemicals and their corresponding reactions play in living systems.

4. SLO 4: examine the interrelationships and interdependencies of organic and biochemistry with contemporary society.

5. SLO 5: The laboratory section will:
   a. enhance the lecture portion by providing visual examples of the chemical and physical properties of organic and biochemical compounds.
   b. allow the student to gain some fundamental basics of laboratory techniques.

Required Texts/Readings

Textbook

ISBN: 9780321750891

Other Materials

Lab Manual: "Chemistry 30B customized Lab Manual". Note this manual is a custom version available only at the SJSU Bookstore. Every student must have a lab manual. You cannot share one because you will be turning in pages from your manual for credit.

Course Requirements and Assignments

In-Class Lecture Exams (Closed book, closed notes)
There will be two in-class lecture exams and one in-class comprehensive final exam. The exams will focus on the (1) key concepts, (2) lecture notes, (3) textbook problems, and (4) lab reports. A simple scientific calculator may be used for all exams (programmable calculators are not allowed).

All exams are required and will count towards your grade. The final exam is mandatory and cannot be missed. Failure to take the final exam will result in a failing grade. Make-up exams will NOT be generally given. Accommodations will be made ONLY for VERIFIED illnesses or VERIFIED legitimate emergencies.

Exam Dates
Exam 1: Monday, March 6th    Exam 2: Monday, Apr. 17th   (100 points each)

Final Exam (200 points) Monday, May 22nd from 7:15 am to 9:30 am

Notes on Final Exam: You will need to bring your photo ID card, as well as a #2 pencil and a non-programmable calculator. Scantron, handouts and scratch paper will be distributed. The final exam (200 points) will be 2 hours long; it is a comprehensive multiple-choice exam. You must strictly follow the instructions given in the exam in order for your final exam to be graded properly. PLAN AHEAD FOR YOUR FINAL EXAM. CHECK YOUR SCHEDULE AND MAKE SURE THAT OTHER EXAMS, WORK SCHEDULE, ETC., DO NOT OVERLAP.
Laboratory work (280 points)
In addition to the Lecture section, you must also attend and complete the work in your lab section. Lab sections meet once a week for 2 hours and 50 minutes in DH 601. The Chemistry 30B Laboratory Greensheet will be on Canvas. To pass this course, all lab works must be completed and all lab reports must be submitted to your laboratory instructor. Please do not schedule appointments during your laboratory period. ONE excused lab absence can be made up by attending another section and completing the work within the same week of the absence. Missed laboratory periods may only be made up with permission of your laboratory instructor, and only during the week for that particular experiment. To make-up a lab, you must obtain a signed pink make-up slip. This slip must be signed by your lab instructor or by Dr. Esfandiari (Lab Coordinator). Since there are many lab sections and students, it would be difficult to keep track of your records if you do not attend your scheduled lab. So, lab switching is greatly discouraged and may be done only in the case you have a compelling excuse (a medical emergency with appropriate documentation). ALSO, ALL STUDENTS MUST RECEIVE SAFETY INSTRUCTIONS AND PASS A SAFETY QUIZ.

The lab point break-down is as follows:
A) Safety quiz (10 points): this will be given during the first or second lab period and you must pass it to remain in Chem 30B course.

B) Lab reports and worksheets (180 points): You will have 8 lab reports (20 points per lab report). To prepare for the laboratory, read the experiment before coming to your laboratory session. In most experiments, you will have the option to work individually or in small groups. All lab works and reports must be completed and submitted to your lab instructor at the end of the lab session. Generally, no late lab reports will be accepted. There will also be two work days, where no experiments will be conducted but there will be practice worksheets. Attendance is mandatory and the worksheets must be turned in to your lab instructor at the end of the lab session. Each worksheet will be worth 10 points.

C) Pre-lab reports (80 points): You will have 8 experiments during the semester. You must prepare a pre-lab for each experiment and submit it to your lab instructor at the beginning of the lab prior to the start of the experiment. The pre-lab will be a 1-2 page typed-up report. The pre-lab includes:

- Title of the experiment
- Abstract (brief summary that describes the main purpose of the experiment. A short description of the experimental techniques used and any pertinent mathematical and chemical equations should be included here).
- Answer to the pre-lab questions (the pre-lab questions for each lab can be found in your lab manual, usually after the lab procedure).

The pre-lab (including the answer to the pre-lab questions) must be typed up. If there are any calculations or structures, they can be hand-written.

Please note that you need to be on-time to lab. If you are late, the lab instructor has the right to deduct 5 points from the pre-lab. Be on time!

D) Subjective laboratory evaluation (10 points). See lab syllabus for more details.
NOTE that University policy F69-24 at http://www.sjsu.edu/senate/docs/F69-24.pdf states that “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**

*Your course grade will be determined as follows:*

- Two in-class lecture exams (100 points each) 200
- Comprehensive in-class final exam 200
- Pre-labs 80
- Lab reports/worksheets 180
- Safety quiz 10
- Lab evaluation 10

**Total: 680 points**

Your grades for all the assignments will be posted on canvas. You have only 9 days from the day a grade is posted to ask for a regrade. We will not do regrades after nine days have passed.

Missing three labs or more will result in an F for the FULL COURSE, irrelevant of how well you are doing in lecture. Do not miss labs!!

*A letter grade will be assigned according to the following percentage scale:*

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>97.0% - 96.9%</td>
<td>A+</td>
</tr>
<tr>
<td>96.9% - 92.0%</td>
<td>A</td>
</tr>
<tr>
<td>91.9% - 89.0%</td>
<td>A-</td>
</tr>
<tr>
<td>88.9% - 85.0%</td>
<td>B+</td>
</tr>
<tr>
<td>84.9% - 80.0%</td>
<td>B</td>
</tr>
<tr>
<td>79.9% - 77.0%</td>
<td>B-</td>
</tr>
<tr>
<td>76.9% - 72.0%</td>
<td>C+</td>
</tr>
<tr>
<td>71.9% - 65.0%</td>
<td>C</td>
</tr>
<tr>
<td>64.9% - 61.0%</td>
<td>C-</td>
</tr>
<tr>
<td>60.9% - 57.0%</td>
<td>D+</td>
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<tr>
<td>56.9% - 54.0%</td>
<td>D</td>
</tr>
<tr>
<td>52.9% - 50.0%</td>
<td>D-</td>
</tr>
<tr>
<td>Below 50.0%</td>
<td>F</td>
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</tbody>
</table>

**Incompletes:** An incomplete will only be given under the following circumstances: (1) you have completed at least two-thirds of the course work with a grade of C or better, and/or (2) the reason that you cannot complete the course is due to an extreme emergency with appropriate documentation. Students who wish to receive an incomplete and have not fulfilled the above requirements will receive a grade appropriate to their totals. If you decide to quit the class without taking the final exam, you will receive a WU grade, equivalent to an F with the option to repeat the class. Consult with your advisor and/or refer to SJSU Course Catalog for specific details.

PLEASE note we DO NOT provide extra credit work at the end of the semester for students who are doing poorly. You need to perform well in your tests, lab reports and quizzes.

PLEASE note that I provide bonus points throughout the tests/quizzes to push your grade up a bit just in case you feel some grading was harsh or uneven. This can amount to as much as an extra 2%. At the end of the semester I decide letter grades using the scale above without providing additional bonus.

**Classroom Protocol**

Regular attendance to lecture is essential for your success in this course. Please remember that skipping lecture of one class to study for another class is not an acceptable excuse. As you sign up for your course load, you are
responsible for fulfilling the obligations that come with that course load. You are expected to read each chapter in the textbook BEFORE the instructor begins to lecture on that material. Also you should read and plan for each lab experiment BEFORE coming to lab.

Please visit the instructor during office hours if you are having trouble with any of the concepts covered in lecture. It is recommended and encouraged that the office hours of any instructor involved in Chem 30B (Dr. Esfandiari, or any lab instructors) be used for individual help. Make sure that you know your lab instructor’s office hours. They will be announced in the lab meetings. Write this information into your lab manual or somewhere easily accessible to you.

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hour used for lecture) for instruction of preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structure will have equivalent workload expectations as described in the syllabus.

Safe and Respectful Community

We hope that the classroom and laboratory will serve as an environment that will promote learning and the development of new ideas, as well as be a safe and respectful community. Behavior that interferes with the normal academic function in a classroom or lab is unacceptable. Students exhibiting this behavior will be asked to leave the class. Examples of such behavior include:

a) Persistent interruptions or using disrespectful adjectives in response to the comments of others.
b) The use of obscene or profane language.
c) Yelling at classmates and/or faculty.
d) Persistent and disruptive late arrival to or early departure from class without permission.
e) Physical threats, harassing/bullying behavior, or personal insults (even when stated in a joking manner).
f) Use of personal electronic devices such as pagers, cell phones, PDAs in class, unless it is part of the instructional activity.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs’ Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/”

Resources for help

1) Dr. Esfandiari (Lab and Lecture)
2) Seminar instructors (Lab and, to some degree, lecture also)
3) Lab instructors (Lab predominantly, although some can also provide excellent help for lecture)
4) COSAC – The College of Science Advising Center is located in the second Floor of Duncan Hall, DH 213. They have peer advisors and tutors. Check their schedule.
5) Peer Connections – They have 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. Visit Peer Connections website at http://peerconnections.sjsu.edu for more information.
7) ASPIRE – Student Services Center – Services are limited to low income, first generation college students or students with disabilities.
8) SJSU Writing Center – The SJSU Writing Center is located in Clark Hall, Suite 126. 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.
9) **Counseling Services** - 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.

10) Private tutors – Cost $$\$. You might find ads in SAACS and in the hallways where Chemistry courses are taught (5th floor of DH, 1st floor of Sci) or you can post your ad in that room.

11) **Career Center**: http://www.sjsu.edu/careercenter/

12) **Accessible Education Center**. If you feel that you are unable to keep up with the class even though you have all the prerequisites; if you are spending ample time studying yet you never have time to finish exams and quizzes and/or if this class, for some reason, is testing your abilities to learn, you might consider paying a visit to the Accessible Education Center, ADM 110. They might be able to test you to determine whether you have a
## Chem 30B, Spring 2017, Course Schedule

**Tentative** schedule of lecture and lab:

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Schedule</th>
<th>Lab Schedule</th>
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</thead>
<tbody>
<tr>
<td>1/23-1/27</td>
<td>No lecture</td>
<td>Roll call</td>
</tr>
<tr>
<td>1/30-2/3</td>
<td>Intro, Chapter 11</td>
<td>attendance and safety discussion</td>
</tr>
<tr>
<td>2/6-2/10</td>
<td>Chapter 11,12</td>
<td>check in and safety quiz (practice nomenclature)</td>
</tr>
<tr>
<td>2/20-2/24</td>
<td>Chapter 12</td>
<td>Exp: Reactions of Unsaturated Hydrocarbons (page 19)</td>
</tr>
<tr>
<td>2/28-3/3</td>
<td>Chapter 13</td>
<td>Work day: (Review for exam I, practice worksheet)</td>
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<td></td>
<td>Chapter 14</td>
<td></td>
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<tr>
<td>3/13-3/17</td>
<td>Chapter 14,15</td>
<td>Work day: (discuss Exam I, Discussion on Aspirin synthesis)</td>
</tr>
<tr>
<td>3/27-3/31</td>
<td>Spring break</td>
<td>Spring break</td>
</tr>
<tr>
<td>4/3-4/7</td>
<td>Chapter 15,16</td>
<td>Exp: Types of Carbohydrates (page 79)</td>
</tr>
<tr>
<td>4/10-4/14</td>
<td>Chapter 16</td>
<td>Work day: (review for Exam II, practice worksheet)*</td>
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<tr>
<td></td>
<td>Chapter 17</td>
<td></td>
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<tr>
<td>4/24-4/28</td>
<td>Chapter 17</td>
<td>Exp: Lipids and making hand lotion (page 101)</td>
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<tr>
<td>5/1-5/5</td>
<td>Chapter 18</td>
<td>Exp: Saponification and Soaps (page 113)</td>
</tr>
<tr>
<td>5/8-12/12</td>
<td>Chapter 19</td>
<td>Lab check out</td>
</tr>
<tr>
<td>5/15-5/19</td>
<td><strong>Last week of class</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Final Exam</strong></td>
<td><strong>Final Exam: 5/22 7:15 – 9:30 am</strong> (All chapters covered)**</td>
</tr>
</tbody>
</table>

**Note:** Lab reports and worksheets will be due at the end of your lab each week, unless otherwise announced by your lab instructor. You must attend every lab and workday and turn in all the reports.