

Syllabus

Chemistry 3B Fall 2018 CHEMICAL STRUCTURE AND REACTIVITY Version 1 – updated 8/16/18

General Information

Chemistry 3B is the second semester of a two-semester survey of organic chemistry.

Course Instructor

Dr. MaryAnn Robak, 327 Latimer Hall, mrobak@berkeley.edu

Please use e-mail to ask questions that require a private response, or to make an appointment to see me. Bring course content questions to office hours or post them on Piazza instead of emailing me.

Lectures

You may attend either lecture section, regardless of your registration.

Section 1: Tuesdays and Thursdays 8:00 - 9:30 am, 100 Lewis

Section 2: Tuesdays and Thursdays 3:30 – 5:00 pm, 1 Pimentel (webcast)

Head GSI

Stephen Bierschenk, stephen_bierschenk@berkeley.edu

Review Sessions (Weekly group problem-solving sessions led by the Head GSI)

Wednesdays, 8:00 – 10:00 pm, 145 Moffitt

Office Hours

A complete Google Calendar (including lectures, exams, Dr. Robak's office hours and GSI office hours):

https://calendar.google.com/calendar/embed?src=berkeley.edu_od3ijtu9vkkpj19t8b46u2i9u4%40group.calendar.google.com&ctz=America%2FLos_Angeles

You will notice that office hours are almost continuously available! Any student in Chem 3B or 3BL (lab) is welcome to attend the office hours of any GSI.

Office hours are walk-in and very informal. You are highly encouraged to bring questions on a regular basis. In addition, office hours are a great place to review your notes, work on practice problems, and meet other students to study with even if you do not have specific questions before coming.

Online Q&A - Piazza

The course website (bcourses.berkeley.edu) contains an online Q&A message board using the Piazza platform. Students can post questions and answer each other's questions in a wiki-style (collaborative editing) format. Instructors (Dr. Robak and GSIs) will also periodically answer questions here.

<https://piazza.com/berkeley/fall2018/chem3bfall2018>

Problem Sets

Problem sets (and answer keys) will be posted on the course website. These problem sets will not be collected or graded. Many of these practice problems will be in the same format and at the same level of difficulty as quiz and exam problems. You are responsible for all content covered in these problem sets.

iClicker

iClicker questions will be posed several times during most lectures, so that you can practice applying the concepts as they are discussed.

- Any version of the iClicker remote (iClicker, iClicker+, iClicker2) may be used.
- Register your iClicker remote in bCourses at the start of the semester.
- See the "Participation Credit" section on the next page for credit details.

Optional Textbook

Organic Chemistry: Structure and Function by Peter Vollhardt and Neil Schore. W.H. Freeman, New York. (any recent edition)

Note: All exams in this course will be based on the material covered in lecture and problem sets. There will be several topics covered in lectures that are not in the text, and you will be responsible for knowing this material.

Course Content:

A detailed outline of course content and recommended reading assignments will be posted on Piazza and may be periodically updated.

Grading:

Both the “Standard” and “Alternate” total points will be calculated for each student as listed below. The higher of the two totals will be used to assign the final letter grade according to the grading scale on the right:

“Standard” Total Points

Description	Points
Midterm 1	200
Midterm 2	200
Quizzes (best 10 out of 13 scores)	200
Participation (best 50 of >80 points)	50
Final Exam	350
Total	1000

“Alternate” Total Points

Lowest 200-pt score (Midterm 1, Midterm 2, or Quizzes) will be dropped, and Final exam score will be multiplied by 1.57 (scaled up to a maximum of 550 points).

Description	Points
Highest 200-pt score (Midterms/Quizzes)	200
Middle 200-pt score (Midterms/Quizzes)	200
Lowest 200-pt score (Midterm/Quizzes) (dropped score)	0
Participation	50
Final Exam (score multiplied by 1.57)	550
Total	1000

Grading Scale

Letter Grade	Point Total (best score out of “Standard” and “Alternate” total points)
A+	950 - 1000
A	900 - 949
A-	850 - 899
B+	800 - 849
B	750 - 799
B-	700 - 749
C+	650 - 699
C	550 - 649
C-	450 - 549
D	400 - 449
F	0-399

Exams

You are responsible for checking the exam dates and times at the start of the semester to make sure that you do not schedule any conflicts. There will be no makeup exams. Missing one midterm exam for any reason (e.g. illness, family emergency, travel, etc.) will result in the course grade being calculated as described in “Alternate total” above, and therefore does not require any documentation. Any student who misses more than one exam should contact Dr. Robak immediately to discuss course completion.

- Midterm 1: **Monday, Oct. 1** from 7:00 – 9:00 PM.
- Midterm 2: **Monday, Nov. 5** from 7:00 – 9:00 PM.
- Final Exam: **Monday, Dec. 10** from 3:00 – 6:00 PM

Quizzes

There will be a short quiz at the start of each Thursday lecture, focused primarily on the topics covered the previous week. There will be no makeup quizzes, but only the 10 highest scores will be counted toward the final grade. Take the quiz in either section, regardless of registration. (13 quizzes, 20 pt each, highest 10 grades counted)

Participation Credit

There will be opportunities to earn at least 80 points of participation credit throughout the semester, however only the first 50 points will count toward the final grade. There will therefore be no makeups or adjustments for absences, even with a valid excuse.

Three points per lecture of participation credit:

- 1 pt for responding to at least 50% of the iClicker questions in the lecture
- 1 pt for at least one correct iClicker answer in the lecture
- 1 pt for submitting a completed Post-Lecture Question Worksheet for the lecture (due prior to the next lecture)

Additional participation credit opportunities will be announced throughout the semester.

Phones and Computers in Lecture

To reduce distractions (not only to yourself, but also to those around you), the use of cell phones, computers, etc. is not permitted during lecture, except tablet-style devices used flat on the desk for writing notes.

Students with Disabilities

If you need disability-related accommodations in this class, please contact the Disabled Students Program (<http://dsp.berkeley.edu>) to request services. If you already have an accommodation letter from DSP, please check to make sure that the letter is submitted through the DSP system (there is no need to email a separate copy). If you would like to set up an individual meeting with me to discuss your accommodations, please email me (mrobak@berkeley.edu).