

Chemistry 105bL Spring 2018

11 am lecture

<http://chemmac1.usc.edu/chem105b/>

Lecturer

Prof. Rebecca Broyer
SGM 305

(213)740-0620

rbroyer@usc.edu

M 12:30-2 pm

W 12:30-1:45 pm

first half of semester only

Lecturer

Prof. Jessica Parr
SGM 445

(213)821-6614

parr@usc.edu

M 1-2 pm

Tu 9-11 am

second half of semester only

Lab Coordinator

Dr. Catherine Skibo
SGM 138

(213)740-8265

skibo@usc.edu

MW 1:30-3

Course Coordinator

Paperwork for the Course Coordinator may
be brought to the Receptionist in SGM 401.

Coord105@chemmail.usc.edu

Electronic office hours: MW 1:30-3. Questions
emailed during this time slot will be processed first.

The purpose of CHEM 105b is to introduce the basic chemical principles that underlie all of the molecular sciences (from materials and nanoscience to medicine and the machinery of biology). It will introduce good lab practice and how to make decisions based on sound data. After this course you will be both better prepared for your continuing studies and have an understanding of molecular principles coming up in everyday life.

Lectures: 11 MWF in SGM 123; quiz period in SGM 123

Textbooks: Chemistry (3rd custom edition for USC, or the 4th edition text) by Tro; package from USC Bookstore includes for free the eText and Mastering Chemistry (MC not required). Solutions Manual (optional). Laboratory Manual (required, purchase in USC Bookstore). Calculations in Chemistry by Dahm (optional, recommended for students who are rusty in chem, math).

Calculator: To have a level playing field, CHEM 105 requires everyone use the exact **same** calculator on exams, the **TI 30x IIS**, which is around \$15. Sorry, this rule is strictly enforced: no other models or brands of calculators or other electronic devices allowed. *Be sure to practice HW with it prior to exams.*

Grading:	Video Quizzes	30@ 1 point	30 points
	Group Quizzes (in-class)	8 @ 15 points	120 points
	One-hour exams (total of three)	3 @ 120 points	360 points
	Laboratory	1 @ 290 points	290 points
	Final Exam	1 @ 240 points	240 points
		Total: 1040 points	

Satisfactory completion of all laboratory experiments and reports is required **to receive a passing grade**. **Any student earning less than 50% of the course points (<520) will not pass the course.**

Week 9 grade: We do our best to inform you on your progress in the course by assigning an approximate letter grade at the end of the eighth week. This is based on your performance on the first two exams. Note: this advisory letter grade you receive at week 9 is no guarantee of your final grade. Final grades are assigned using guidelines from previous semesters, but there is no strict grading curve.

Schedule: The class schedule (lectures, exams, lab exam/practical, etc.) is on p. 3 of this syllabus.

Exams: There will be three 1-hour exams given during the scheduled quiz sessions on certain Thursdays at 3:30 p.m. (see p. 3). **There are no makeup exams. You cannot take exams at any other time.** The material covered on each exam will be announced in lecture prior to that exam.

5-pt bonus for class password set up on course website by **5:00 pm Mon Jan 08**.

Bring an ID, TI 30X IIS calculator and pens. All other electronic devices such as cell phones are prohibited and cannot be used for any purpose during the exam, including keeping time. **Apple watches and other smart watches may not be used during exams.** A countdown timer will be projected in each exam room. Exams must be written in ink (no pencil, except in ID bubbles). The one-hour time period will be strictly enforced; no one is allowed to leave early. Anyone with special needs should contact the Course Coordinator. An answer key for each exam will be posted on the Grades/Exams page. Graded exams will be scanned and posted there, viewable with one's class password.

The regrade deadline is 5pm on Mon following each midterm exam and 12 noon on Mon following the final exam. Submit regrades via the form found on the course website under "Grades/Exams".

Final Exam: A comprehensive two-hour **final exam** will be given **8 – 10 a.m. Wed, May 3rd 2018** in rooms to be announced. **Note that this is not the regular final exam time for classes that meet at 9, 10 or 11a.m. MWF.** This is the only time during which the final exam may be taken; there are no make-ups. Absences on the final exam do not automatically qualify for a grade of incomplete. **If you cannot take the final during this designated time, you should not take this course.**

Absences: No makeup exams will be given. Absences will be excused based on official University policy (verifiable illness or necessity). **For illness/emergency, telephone the Course Coordinator 213-740-7036 on the morning of the absence (or prior).** In the case of non-illness necessity, email the Course Coordinator (see page 1) about the written verification *prior* to the absence. All excuses will be verified. Students with excused absences will be given special consideration at the end of the semester. Only one exam can be excused. All *unexcused* absences will result in a score of zero for that exam.

For lab absences, email Dr. Skibo (skibo@usc.edu) as soon as possible in order to arrange a make-up lab or a make-up lab exam. Satisfactory completion of all labs and lab work is required to pass the class.

Group Quizzes: There will be a total of nine, 20-minute group quizzes administered during lecture throughout the semester. Groups will consist of 3 students. Quizzes may be taken only in one's own registered lecture section, and will be closed notes. Your top eight scores will count toward your final grade. The schedule will be posted on the course website. **There are no make-ups for group quizzes.**

Homework: Suggested Homework Assignments (not graded) assigned for each chapter are listed on the "Assignments" page of the class web site, and *should be solved the same day the material is covered in class.* Although the Suggested HW Assignments will not be graded, *students are expected to do them.* It is best to check the solutions manual only after the problems have been worked.

Video Quizzes: Throughout this semester we will be adding more active learning to the lecture time. Prior to each lecture you will be asked to watch a short video. There will be questions inserted into the videos that you will be graded on. There are a total of 40 videos throughout the semester. You will earn 1 point for answering 2/3 of the questions in the video correctly. Your top 30 scores will count toward your final grade. You will not earn points for submitting answers after the deadline.

Office Hours: You are strongly encouraged to see *any* T.A. during their office hours, not just your own T.A. Office hours for all T.A.'s are posted in SGM 149 (Chemistry Study Center) and on the class web page. The Study Center is open Monday through Friday, 9 - 5.

SI: The University has a Supplemental Instruction Program (<http://www.usc.edu/dept/LAS/si/>) that we encourage you to use. The SI instructors hold weekly sessions going over the course material and problems. They also prepare mock exams, which you can use to test yourself before the midterms and finals. The SI leaders attend all of the lectures and are familiar with the lecture material.

Laboratory: The **mandatory lab orientation** lecture will be given during the **quiz period on Thurs Jan 11** in SGM 123 at 3:30 **for 9 and 10am lectures** and at 4:10 **for the 11am lecture** (email Dr. Skibo for permission to attend the other time). You must attend the lab orientation in order to maintain your space in the lab and thus to remain in the course. The laboratory curriculum starts with the lab orientation lecture. Attendance at this lecture and at the first scheduled lab meeting is mandatory for all registered students. If you cannot attend both at your assigned times, you won't be permitted to continue in the laboratory portion of the course.

Safety glasses and a lab coat (100% cotton) are required for every person in the lab at all times. All persons in the lab are required to wear long pants, shirt with sleeves, socks and covered/closed-toe shoes.

Lab begins with Check-in & Experiment 1 at your scheduled lab time on **Jan 22-24.**

Be properly dressed and bring with you to your first lab period (all available in USC Bookstore):

- Safety Glasses
- Lab notebook
- Lab manual
- Lab coat, only 100% cotton

Quiz Period/ Lab Lecture There will be 30-minute lab lectures given during the quiz period in SGM 123 at 3:30 each week that the quiz period is not used for assessment test, exams or lab orientation. A schedule of the lab lecture topics will be posted on the Chem 105b Laboratory page.

Lab Exam: At the end of the semester there will be one 60-minute cumulative lab exam and one 60-minute lab practical. The **written lab exam** will be held during the **Thurs Apr 26** quiz period, in rooms to be announced. Questions typically cover the procedure, safety issues, relevant chemical formulas and chemical equations, observations, calculations and data analysis (bring a calculator). The **lab practical** will be held during your scheduled lab section (**Apr 23-25**).

Students with Disabilities: Any student requesting academic accommodations based on a disability is required to register each semester with Disability Services and Programs (DSP), which provides certification for students with disabilities and helps arrange relevant accommodations, <http://dsp.usc.edu>. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to the Course Coordinator in SGM 401 as early in the semester as possible.

Academic Conduct: USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. Plagiarism – presenting someone else's ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in *SCampus* in Part B, Section 11, "Behavior Violating University Standards" <https://policy.usc.edu/scampus-part-b/>. Other forms of academic dishonesty are equally unacceptable. See additional information in *SCampus* and university policies on scientific misconduct, <http://policy.usc.edu/scientific-misconduct>.

Should there be any suspicion of academic dishonesty, students will be referred to the Office of Student Judicial Affairs and Community Standards (SJACS) for further review.

See the [Frequently Asked Questions \(FAQ page\)](#) on the class website.

Important Dates to Remember

January 08 (M)	First Day of Classes	
Jan 08 (M) 5:00pm	5 pt bonus for setting up class PW	
Jan 11 (Th)	Mandatory Lab Orientation Lecture	
Jan 15 (M)	Martin Luther King Day, No Classes	
Jan 18 (Th)	Chem assessment test, 60 min , for all students; get room # on grades/exams page using class PW	
Jan 22-24 (M,Tu,W)	Labs begin with checkin at your scheduled time. Be properly attired, bring completed prelab assignment in lab notebook.	
Jan 26 (F)	Last day to drop <u>without</u> a "W" <u>to avoid tuition charges</u>	
Feb 19 (M)	Presidents' Day, No Classes	
Feb 08 (Th)	First Hour Exam	Regrade deadline: Mon Feb 12
Feb 23 (F)	Last day to drop <u>without</u> a "W" <u>but still incurring tuition charges for this class</u>	
Mar 08 (Th)	Second Hour Exam	Regrade deadline: Mon Mar 12
Mar 09 (F)	Midterm Grade Assigned	
Mar 11-18	Spring Recess	
Apr 05 (Th)	Third Hour Exam	Regrade deadline: Mon Apr 09
Apr 06 (F)	Last day to drop <u>with</u> a "W"	
Apr 23-25 (M,Tu,W)	Lab Practical in lab section/rooms	
Apr 26 (Th)	Written Lab Exam	
Apr 27 (F)	Last Day of Class	
May 03 (Th)	Final Exam 8:00 - 10:00 a.m.	Regrade deadline: 12 noon Mon May 08
	This is the <u>only</u> time during which the final exam may be taken. There are no make-ups or other times. If you cannot take the final during this designated time, you should <u>not</u> take this course.	

Exam The grading of all exams is accurate since the grading is double-checked before the exams are scanned. The
Regrades: deadline for regrade requests of a midterm is 5pm on Mon following each midterm exam, and 12 noon on Mon following the final exam.

Statement on Support Systems

The Office of Disability Services and Programs

See p. 2 of this syllabus.

Student Counseling Services (SCS) - (213) 740-7711 – 24/7 on call

Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention. <https://engemannshc.usc.edu/counseling/>

National Suicide Prevention Lifeline - 1-800-273-8255

Provides free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week. <http://www.suicidepreventionlifeline.org>

Relationship and Sexual Violence Prevention Services (RSVP) - (213) 740-4900 - 24/7 on call

Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

<https://engemannshc.usc.edu/rsvp/>

Sexual Assault Resource Center

For more information about how to get help or help a survivor, rights, reporting options, and additional resources, visit the website: <http://sarc.usc.edu/>

Office of Equity and Diversity (OED)/Title IX Compliance – (213) 740-5086

Works with faculty, staff, visitors, applicants, and students around issues of protected class. <https://equity.usc.edu/>

Bias Assessment Response and Support

Incidents of bias, hate crimes and microaggressions need to be reported allowing for appropriate investigation and response. <https://studentaffairs.usc.edu/bias-assessment-response-support/>

Student Support and Advocacy – (213) 821-4710

Assists students and families in resolving complex issues adversely affecting their success as a student EX: personal, financial, and academic. <https://studentaffairs.usc.edu/ssa/>

Diversity at USC

Information on events, programs and training, the Diversity Task Force (including representatives for each school), chronology, participation, and various resources for students. <https://diversity.usc.edu/>

USC Emergency Information

Provides safety and other updates, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible, <http://emergency.usc.edu>

USC Department of Public Safety – 213-740-4321 (UPC) and 323-442-1000 (HSC) for 24-hour emergency assistance or to report a crime.

Provides overall safety to USC community. <http://dps.usc.edu>