CHEM 51B, Winter Quarter 2019

Lectures:	MWF 10:00 am – 10:50 am, BS3 1200
Instructor:	Professor Sergey Pronin (Reines Hall 5042A; spronin@uci.edu)
Office hours:	Thu 2:00 pm – 3:00 pm (subject to change) + one floating (I will honor the first request received after 10:50 am on Friday barring any conflicts with prior commitments; times and dates will be emailed and posted on the website)
Discussion sections:	Thu 11:00 am – 11:50 am, RH 188 (Dis D1; Alexandra)
	Wed 1:00 pm – 1:50 pm, SSPA 1170 (Dis D2; Chris)
	Mon 9:00 am – 9:50 am, SSPA 1170 (Dis D3; Alexandra)
	Tue 3:00 pm – 3:50 pm, HICF 100M (Dis D4; floating)
	Fri 12:00 pm – 12:50 pm, SSPA 1170 (Dis D5; Nick)
	Thu 3:00 pm – 3:50 pm, HICF 100M (Dis D6; Chris)
	Fri 2:00 pm – 2:50 pm, HICF 100P (Dis D7; Nick)
	Wed 12:00 pm – 12:50 pm, DBH 1200 (Dis D8; Chris)
	Mon 11:00 am – 11:50 am, RH 188 (Dis D9; Alexandra)
	Fri 1:00 pm – 1:50 pm, PSCB 240 (Dis D10; Nick)
TAs:	Chris Discolo (cdiscolo@uci.edu)
	Alexandra Kent (TBA; akent1@uci.edu)
	Nick Foy (TBA; nfoy@uci.edu)
Office hours:	Mon 12:00 pm – 2:00 pm (Alexandra; RH 552)
	Mon 6:00 pm – 7:00 pm (Nick; find him in FRH 5004A)
	Wed 11:00 am – 12:00 pm (Chris; find him in FRH 5004A)
	Thu 4:00 pm – 5:00 pm (Chris; find him in FRH 5004A)
	Fri 9:00 am – ca. 10:00 am (Nick; find him in FRH 5004A)
Textbook:	Organic Chemistry, Fifth Edition, by Janice G. Smith, McGraw-Hill Education. 3rd or 4th editions will work equally well.
Course website:	https://canvas.eee.uci.edu/courses/14278
Email instructions:	The subject line should begin with "CHEM 51B" to help prioritize the class-related correspondence. Do not use email to ask questions about chemistry! Neither the instructor nor the TAs can provide adequate explanations over email. Take advantage of the office hours and discussion sections instead.
Grades:	*1st midterm* – 20% of your grade (Feb 1; during class)

2nd midterm – 30% of your grade (Mar 1; during class)

Final – 50% of your grade (March 18, 10:30 am)

No make-up exams

Academic honesty: UCI academic honesty policy can be found here. Any instance or attempt will result in zero (F) grade and lead to a letter placed in your file.

Tentative course timetable:

Week	Topic	Chapters
1	Nucleophilic substitution and mechanisms	7
2	Organic synthesis; elimination reactions	7–8
3	Comparing substitution and elimination	8
4	Alcohols, ethers, and epoxides	9
1st midterm, Feb 1, during class		
5	Converting alcohols to alkyl halides, sulfonates	9
6	Alkenes: nomenclature, preparation, and reactions	10
7	Alkynes: nomenclature, preparation, and reactions	11
8	Oxidation and reduction reactions	12
2nd midterm, Mar 1, during class		
9	Radicals reactions and mechanisms	15
10	Conjugation, resonance, and aromaticity	16–17
Final, March 18, 10:30 am		

Student learning outcomes:

After completing a course in this category, successful students should be able to do *ALL* of the following:

(1) demonstrate an understanding of fundamental laws of

science OR principles underlying design and operation of technology;
(2) demonstrate an understanding of natural phenomena, related to the course discipline, that surround and influence our lives;
(3) be able to do *ONE OR MORE* of the following:

(a) describe how scientists within the course discipline approach and solve problems;
(b) apply scientific knowledge/theoretical models used in the course discipline to solve problems and draw conclusions using qualitative and/ or quantitative analysis of data and concepts;
(c) explain the scope and limitations of scientific inquiry and the scientific method as evidenced in the course discipline.

Enrollment: Use ***WebReg*** (http://www.reg.uci.edu/registrar/soc/webreg.html) to add, drop, or change grade option for your classes. Add/ drop/ change deadline is the end of Week 2 by 5:00 pm. Chemistry enrollment-related questions are not handled by instructors. For enrollment-related questions, please visit the Chemistry Undergraduate Program Office website at https://www.chem.uci.edu/schedulepolicy. If you have additional questions please contact the Chemistry Undergraduate Program Office at undergrad@chem.ps.uci.edu.

Chemistry Undergraduate Program Office:

Natural Sciences II 1101; undergrad@chem.ps.uci.edu;
Tel: (949) 824 2895; Fax: (949) 824 8571
Open hours M-F 9:00 am - 12:00 pm, 1:00 pm - 3:30 pm.
Subject to change and listed on the Chemistry Undergraduate Office website.

This syllabus is subject to change