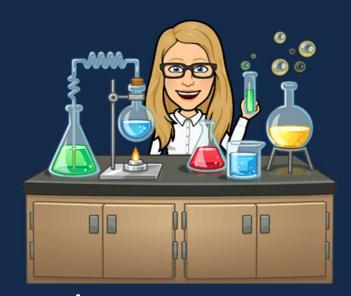
For voting, go to: https://pollev.com/lauriestarke263 or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey Cal Poly Pomona



CHM 3140 Organic Chemistry I Announcements 4/24/25

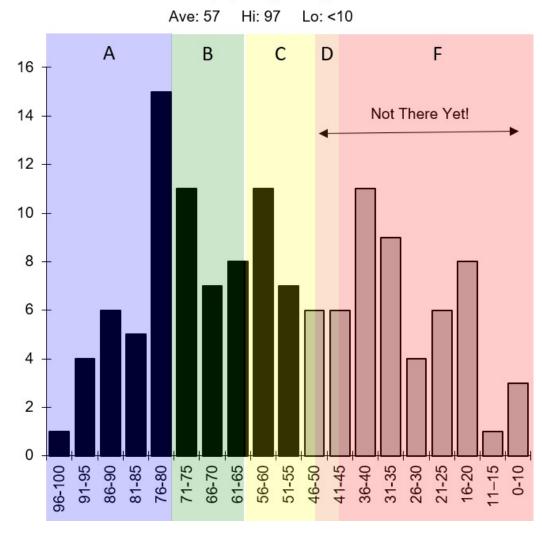
Exam III Results

A/B/C... ranges are to give you a rough idea of your course grade based only on this exam score + max. homework

200 of 300 total Exam points are complete. **Grade going into 100-**

point final: average of your top two midterms!

CHM 3140, Spring 2025, Exam III



Exam Wrapper Survey

If you submitted wrappers for Exams 1 & 2, then you've earned max. 16 points reflection credit

FridayFives (4 pts each)	52	OLC reports (1 pt each)	200	Exam Wrappers	8	514 5 4015	Study/Reflection
(13+ reports earns maximum credit)		(10+ reports earns maximum credit)		(4 pts each, drop one) Exam Corrections (4 pts each, drop one)	8	Friday5 and OLC reports are due every week (firm due dates)	Course Points 75 (15%)

(if missing a wrapper for Exam 1 or 2)

due 5/13

CIM 3140 Exam Wrapper - Fo	st-Test survey (Due 5)	2/21) Name:		
Metacognition By taking a step. The following survey will guide performance on the next exam. corrections (*include written re 1. How did you prepare for 2. What kinds of mistakes d 3. How will you prepare diff. What was your score* on the example of the following states of the states of the states of the following states of the states of the following states of the states of the states of the following states of the states of the following states of the states of the following sta	you through an exercise You will earn 3 points of flection, if score <55). In this exam? Individually you make? Iferently next time?	e in self-reflect redit if you co t analyzes the * If exam sco written refle	tion, with the goal of impro mplete this survey, and 3 p	ving your points for bmit a ctions (wha
1. Leading up to the exam, appro		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	· ·	
outside of class (on average) did	l you spend studying Or	ganic Chemist	ry?	
2. Given the approximate # of te	xtbook problems in eac	h chapter (#),	about how many did you v	vork on?
Ch. 6 (# problems)	Ch. 7-1 (# problem	s)	Ch. 7-2 (# problems)	
(Chemical Rxns)	(Substitution Rxn	s)	(Elimination Rxns)	
6 SkillBuilders (28)	3 SkillBuilder	s (31)	6 SkillBuilders (54)	
End-of-Chapter (EOC) (33)	EO	2 (20)	EOC (53)	
How did you work on teythook	oroblems?			

CHM 3140 Distribution of Course Points (500 Total)

Exam I assignments*		Exam II assignments*		Exam III assignments*		Final assignments*		
SkillBuilder/EOC Ch.1	7	SkillBuilder/EOC Ch.4	8	SkillBuilder/EOC Ch.6	5	SkillBuilder/EOC Ch.8	12	
SkillBuilder/EOC Ch.2	7	SkillBuilder/EOC Ch.5	8	SkillBuilder/EOC Ch.7-1	8	SkillBuilder/EOC Ch.9	5	Homework
SkillBuilder/EOC Ch.3	7	SkillBuilder/EOC Ch.15	5	SkillBuilder/EOC Ch.7-2	8	SkillBuilder/EOC Ch.10	5	Course Points
				11		SkillBuilder/EOC Ch.11	5	
'Free red ink" homework	8	"Free red ink" homework		"Free red ink" homework		Tie -		125 (25%)
3D Sketch	3	Newman Proj.	3	NMR Spectra x3	3	"Free red ink" homework		(4)
Resonance	3	Canvas quiz - R/S	3	Sn1 v Sn2	3	Alkene Predict #1	4	*assignments due
Acid Strength	3	Canvas quiz - Compare	3	Alcohol Dehydrate	3	Alkene Predict #2	4	no later than date
				18172				of each exam
							35	
	30		30		30			
FridayFives (4 pts each) (13+ reports earns maximum credit)	52	OLC reports (1 pt each) (10+ reports earns maximum credit)	10	Exam Wrappers (4 pts each, drop one) Exam Corrections (4 pts each, drop one)	8	Friday5 and OLC reports are due every week (firm due dates)		Study/Reflection Course Points 75 (15%)
Midterm Exams x3	0	(100 pts each, drop lowest)	- 5	Final Exam		150 point final points will be scaled down to 100 max (150 x 0.66)		Midterms: 200 (40% Final: 100 (20%) or
/ 12		(accepts could be ob to the could	1.0	100		10 200 Hill (200 A 0.00)		

New Course Grade Option!!

Today's Topic: Reactions of Alkenes (Ch. 8)

Daily To-Do

Flipped Lectures

Step 2

- Read Klein sections 8.9, 8.10, 8.12-8.15 SKIP Section 8.11 and SkillBuilder 8.7 (Anti-Dihydroxylation)
- · Watch flipped lectures
- Work through SkillBuilders 8.5 8.12
- Alkene Predict the Product I
 Homework (in Gradescope can be
 submitted late with no penalty, up until
 date of Final Exam)
- Work on suggested <u>Chapter 8 EOC</u>
 <u>problems</u> on WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual).

• Part 2 - Reactions of Alkenes - Part 2

65 minutes, pages 8-9 to 8-14

SKIP last part (Radical Addition to Alkenes) - we will come back to this later, in Chapter 10

Chapter 8

- ✓ Watch
- ✓ Read
- **✓** Practice

Flipped Lectures

Bromination of Alkenes		49:51					
Anti-Addition of Br₂		49:52					
Bromination Mechanism		53:16					
Mechanism of Bromination		53:17					
Bromination Mechanism		55:42					
Mechanism of Bromination		55-43					
Bromination: Halohydrin Formation		58 Oxidation of Alkenes		87:21			
Addition of other Nu: to Bromonium Ion Mechanism	Anti addition of	58 Redox Review		87:22 90:26			
Halohydrin: Regiochemistry		Epoxide	Epoxide				
Halohydrin: Regiochemistry	Br-Br & Br2/water	Diol (Glycol)		90:54			
Bromonium Ion Intermediate		Ketone/ Aldehyde		91:13			
Example	Dadication of	69 Epoxidation		92:08			
Example: Predict Major Product	Reduction of	69 Epoxidation	Oxidation	92:09			
Example Cont.	Alkenes & Alkynes	76 General Mechanism	Oxidation	96:32			
Example: Predict Major Product Cont.	10000000000000000000000000000000000000	71 Alternate Epoxide Synthesis	Reactions	97:38			
Catalytic Hydrogenation of Alkenes		Alternate Epoxide Synthesis	Redelions	97:39			
Features of Catalytic Hydrogenation		Dihydroxylation		101:10			
Catalytic Hydrogenation of Alkenes							
Metal Surface		74 Dihydroxylation		101:12			
Heterogeneous Catalysts		75 General Mechanism (Concerted Via Cycle Intermedia	te)	102:38			
Homogeneous Catalysts		7d Ozonolysis		104:22			
Catalytic Hydrogenation of Alkenes		Ozonolysis: Introduction		104:23			
Hydrogenation & Pi Bond Stability		Ozonolysis: Is It Good or Bad?		105:05			
Energy Diagram		79 Ozonolysis Reaction		108:54			
Catalytic Hydrogenation of Dienes		Examples		111:10			
Hydrogenation & Pi Bond Stability		OU TO THE RESIDENCE OF THE PROPERTY OF THE PRO					
Energy Diagram		83 Example 1: Ozonolysis		111:11			
Example		84 Example		113:25			
Example: Predict Product		84:15					

Chapter 8 Assignments

Suggested Ch. 8 pro	blems *Mechanisms (good	to work on by hand,	self-co	orrect w/Solu	tions Manual)
47abdefg	60	74			87
48	61	75a-d			88
49	63*	76ab			00
50	64a-d	77ab			California State Organic Chemistry
51a-d*	65a-c	78*	N		Alkene/Alkyne Pr
52	66	79*	Name Predic	W 41 19	uct(s) expected for
53ab	67a-d	80			appropriate. If no
54	68*	81	A)	CH ₃	$\frac{\text{Br}_2}{\text{CCl}_4}$
55	69	82	D)		1)Hg(OAc) ₂ , H ₂
56	70	83	B)	CH₃	2) NaBH ₄
57a-d	71	84	(1)		H ₂ (excess)
58	72	85	C)	4	Pd
59	73	86	D)	\bigcirc	HC1

Final assignments*	
SkillBuilder/EOC Ch.8	12
SkillBuilder/EOC Ch.9	5
SkillBuilder/EOC Ch.10	5
SkillBuilder/EOC Ch.11	5
"Free red ink" homeworl	k
Alkene Predict #1	4
Alkene Predict #2	4

California State Polytechnic University, Pomona

Organic Chemistry I, CHM 3140, Dr. Laurie S. Starkey

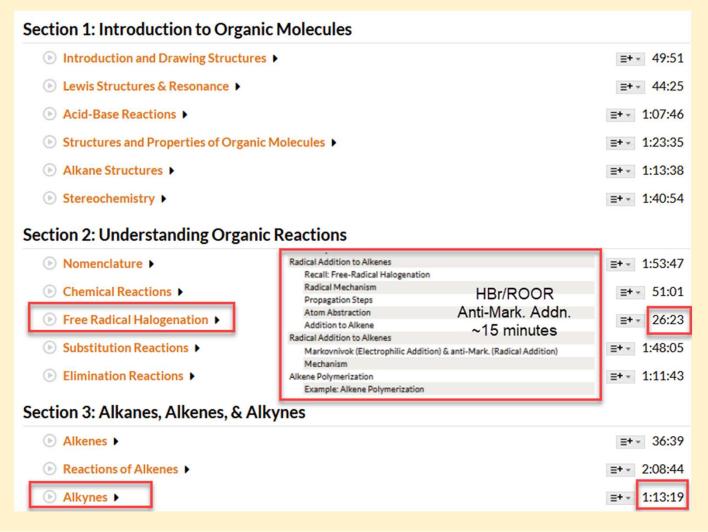
Alkene/Alkyne Predict the Product

Nam Pred stere	ict the major produ	uct(s) expected for each of the following appropriate. If no reaction is expected,
A)	CH ₃	$\frac{\text{Br}_2}{\text{CCl}_4} \longrightarrow$
B)	CH ₃	1)Hg(OAc) ₂ , H ₂ O 2) NaBH ₄
C)		H ₂ (excess)
D)	\bigcirc	HC1
E)		Br_2

 H_2O

20	Introduction & Nomenclature (Conc.Chkpt. 8.1-8.4, SkillBuilder 9.1)
-	Due May 18 at 11:59pm -/8 pts
	Addition of HX: Hydrohalogenation (SkillBuilders 8.1 & 8.2)
- 2	Due May 18 at 11:59pm -/13 pts
20	Addition of H2O (SkillBuilders 8.3 & 8.4)
-0	Due May 18 at 11:59pm -/14 pts
	Addition of Br2 or Cl2 (SkillBuilder 8.6)
-0	Due May 18 at 11:59pm -/6 pts
20	Catalyic Hydrogenation (SkillBuilder 8.5)
-0	Due May 18 at 11:59pm -/4 pts
70	Oxidation Reactions
=0	Due May 18 at 11:59pm -/10 pts
9	Summary and Synthetic Strategies
3	Due May 18 at 11:59pm -/16 pts
o.,	Chapter 8 EOC
20	Due May 18 at 11:59pm -/79 pts

Last Three Lessons of CHM 3140!



Ch. 8 Reactions of Alkenes Ch. 9 Reactions of Alkynes Ch. 10 Radical Reactions (fr Ch. 11 Synthesis Strategies (