For clicker question voting, go to: https://pollev.com/lauriestarke263



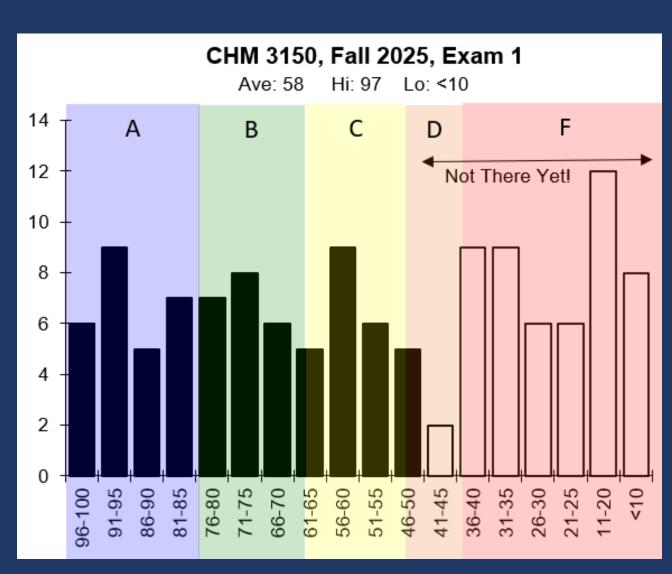


Dr. Laurie S. Starkey Cal Poly Pomona

CHM 3150 Organic Chemistry II 9/23/25

Exam I Results

A/B/C... ranges are to give you a rough idea of projected CHM 3150 grade based only on this exam score & full homework credit. To Pass: Exam Ave >50 *Note: lowest midterm* score will be dropped!



Exam Wrapper (Survey) & Exam Correction due Sunda 10/5

Friday Fives (4 pts each) (13+ earns max. credit)

	CHM 3150 Exam Wrapper - Post-Test Survey Name:									
Metacognition By taking a step back and thinking about the way you learn, you can improve learning! The following survey will guide you through an exercise in self-reflection, with the gimproving your performance on the next exam. You will earn 4 points credit if you complete this and 4 points for corrections (*include written reflection, if score <50). It analyzes the following the 1. How did you prepare for this exam? 2. What kinds of mistakes did you make? 3. How will you prepare differently next time?										
	What was your score on the exam? (out of 100 points)									
	What was your grade in CHM 1220? CHM 3140? Are you repeating CHM 3150? Y / N									
	1. Leading up to the exam, approximately how many hours per week outside of class (on average) did you spend studying Organic Chemistry?									
S	2. Given the number of textbook problems in each chapter (#), about how many did you work on? Mark here if no VitalSource book:									
	Ch.11 (Synthesis)	~100	-	(Alcohols)	~200	Ch. 13 (Ethers)	~200			
\ /	In-chapter		In-chapter		In-chapter			# of Flashcards?		
y	End-of-ch.	End-of-ch. End-of-chapter			# hours per week?					
	3. Approximately how much of your studying was spent doing each of the following activities? 5 4 3 2 1 major contributor moderate amount some time spent minimal amount not done at all									
					m Wrap	•	8	Study/Reflection		
52	OLC reports (1 pt each) 7 (7+ reports earns max. credit)			(4 pts each, drop one) Exam Corrections 8 (4 pts each, drop one)			8	Course Points 75 (15%)		

Advice for "How to Earn an A (or B...)"

- Attend Lecture Come to class, take guestions, try problems presented in
- Read the Book As soon as possible a closely look through any examples the problems you will encounter on exam compare two compounds (e.g., Highe mechanism, explain something (e.g., I
- Work on In-Chapter Problems After examples (sometimes there are also sometimes there and sometimes the problem down onto the page and writing is the only way to practice and provide book and/or lecture notes for help as Manual (or at the back of the book), and
 - a. If your answer was perfect, the a break before moving on to the
 - b. If you made mistakes, do you a quiz or exam for a grade.

 problem. If there are no mor answer perfect, without referring to your notes or the book.

Strategies for Earning an A (or B...) in Organic Chemistry
Dr. Laurie Starkey, Cal Poly Pomona

"Miriam, a freshman calculus student at Louisiana State University (LSU), made 37.5% on her first exam but 83% and 93% on the next two exams. Robert, a first-year general chemistry student at LSU, made 42% on his first exam and followed that up with three 100%s in a row. Matt, a first-year general chemistry student at the University of Utah, scored 65% and 55% on his first two exams and 95% on his third exam. I could go on. I could tell you scores of stories like this from the last 15 years of my teaching career. Something happened to all of the students between their last failing grade and their first good grade. They learned something new.

No Miracles, Just Strategies"

Saundra McGuire, author of Teach Students How to Learn

And one more story to share: Laurie, a first-year graduate student at UCLA, scored 12% on her first Organic Synthesis midterm...but then she succeeded in the course, earned her Ph.D. in Organic Chemistry, developed a rewarding teaching career, and even wrote a textbook on Organic Synthesis! So if you are not yet having success in Organic Chemistry, the good news – the GREAT news – is that you can still improve by learning how to learn. Let's explore various strategies that can help you learn Organic Chemistry and reach your desired goal. Formative Assessment is the feedback you get while learning and studying. It comes from writing down an answer and checking to see if it is right. Summative Assessment is what you do at the end of a unit – taking a quiz or exam for a grade. Formative assessment provides evidence of your learning...it helps you steer in the right direction and positions you to do well on summative assessments.

c. If you don't understand the Solutions Manual answer, or you don't even know how to get started on the problem, then go back to your class lecture notes. Read through your notes and try to work on the example(s) we did in class (i.e., copy it down on a blank page and attempt the problem on your own). Next, re-read or skim through the textbook again and work on the



Today's Topic: Ch. 19 Aldehydes & Ketones (Part 1)

Chapter 19

- ✓ Watch
- ✓ Read
- **✓** Practice

Daily To-Do Flipped Lectures

Step 1 Read

- Read Klein
 - Sections 19.1, 19.2 Nomenclature of Aldehydes
 & Ketones
 - Section 19.3 Preparation of Aldehydes & Ketones
 - Sections Klein 19.4-19.6 Reaction with Hydride & Grignard Nucleophiles
- Watch flipped lectures
- Work through SkillBuilder 19.1 and Conceptual Checkpoints 19.5a-e, 19.6a-d, 19.7ab, 19.8ab
- Practice Aldehyde/Ketone Nomenclature: <u>practice</u> <u>worksheet</u> and <u>answer key</u>

- Part 1a IUPAC of Aldehydes and Ketones
 14 minutes
 skeleton note, page 19-1
- Part 1b Preparation, Reaction with Hydride/Grignard

 38 minutes

 skeleton notes pages 19 1 to 19-3

Watch

Practice

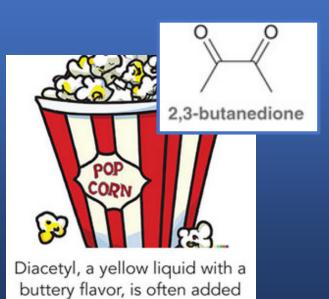
Flipped Lectures

Ketones ▼		
Intro		0:00
Aldehydes & Ketones		0:11
The Carbonyl: Resonance & Inductive		0:12
Reactivity		0:50
The Carbonyl		2:35
The Carbonyl		2:36
Carbonyl FG's	Synthesis of	4:10
Preparation/Synthesis of Aldehydes & Ketones	Ald/Ketones &	6:18
Oxidation of Alcohols	7.114.714.714.714	6:19
Ozonolysis of Alkenes	Donations with	7:16
Hydration of Alkynes	Reactions with	8:01
Reaction with Hydride Nu:	Hydride & C Nu:	9:00
Reaction with Hydride Nu:		9:01
Reaction with Carbon Nu:	1	1:29
Carbanions: Acetylide	1	11:30
Carbanions: Cyanide	1	14:23
Reaction with Carbon Nu:	1	15:32
Organometallic Reagents (RMgX, Rli)	1	15:33
Retrosynthesis of Alcohols	1	17:04
Retrosynthesis of Alcohols	1	17:05
Example	1	19:30
Example: Transform	1	19:31
Example	2	22:57
Example: Transform	2	22:58
Example	2	28:19
Example: Transform	2	28:20
Example	3	33:36
Example: Transform	3	33:37

Exam II Covers Chapters 19 & 20

CHM 3150 Organic Chemistry II, Dr. Laurie S. Starkey, Fall 2025											
Tentative Schedule (Chapter and Worksheet #)											
Week	Mon	Tues	Wed	Thurs	Fri						
	8/18	8/19	8/20	8/21	8/22						
0				Review 7-11 #1							
	8/25	8/26	8/27	8/28	8/29						
1		Review 7-11 #2	You	Ch. 12 #1							
	9/1	9/2		9/4	9/5						
2	Holiday	Ch. 12 #2	are	Ch. 12 #3							
	9/8	9/9	here here	9/11	9/12						
3		Ch. 13 #1		Ch. 13 #2							
	9/15	9/16	9/17	9/18	9/19						
4		Ch 12 #3, Review		Exam I							
	9/22	9/23	9/24	9/25	9/26						
5		Ch. 19 # <i>1</i>		Ch. 19 #2							
	9/29	9/30	10/1	10/2	10/3						
6		Ch. 19 #3		Ch. 19/20 #1							
	10/6	10/7	10/8	10/9	10/10						
7		Ch. 20 # 2		Ch. 20 #3							
	10/13	10/14	10/5	10/16	10/17						
8		Ch.20 #4, Review		Exam II							

Fragrant Aldehydes & Ketones



to movie-theater popcorn.

