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<https://pollev.com/lauriestarke263>



Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3150 Organic Chemistry II

Announcements 10/30/25

The Spookiest Jack-O-Lantern!



Dr. Starkey's nightmares...



Today's Topic: Ch. 21

Advanced Synthetic Techniques

Daily To-Do

Flipped Lectures

Step 4

- Read Klein-Starkey Section 21.7 **Synthesis Strategies** [Enols & Enolates Part 4](#)

19 minutes

skeleton notes page 21-14

- Work through **SkillBuilders**:

- 21.6 Which Enolate Reaction to Use?
- 21.7 Acetoacetate Ester Synthesis
- 21.8 Malonic Ester Synthesis (problems 21.36 - 21.43)

- FYI (not on exam) Stork Enamine Synthesis, SkillBuilder 21.5 (problems 21.32 & 21.33)*

Ch. 21 Part 4

- ✓ Watch
- ✓ Read
- ✓ Practice

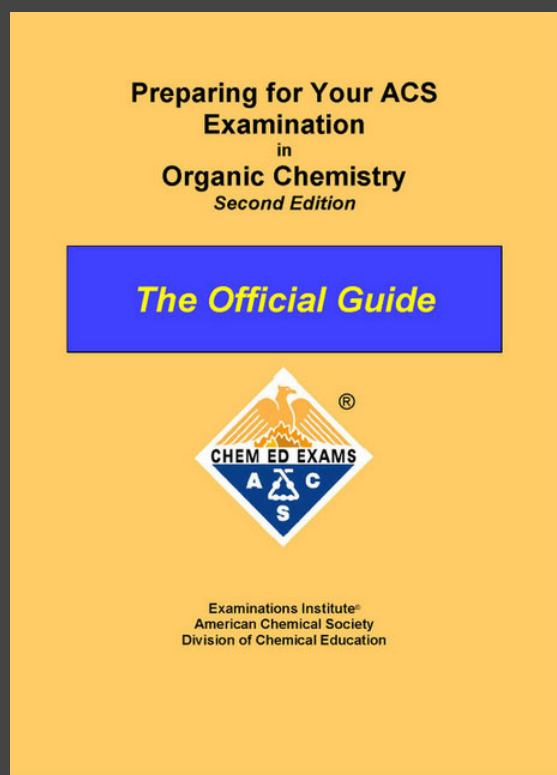
Flipped Lecture

Enols and Enolates: Advanced Synthesis Topics		31:10
Stablized Enolates and the Decarboxylation Reaction		31:11
Mechanism: A Pericyclic Reaction		32:08
Enols and Enolates: Advanced Synthesis Topics	Decarboxylation Rxns	33:32
Example: Advance Synthesis	(Acetoacetate &	33:33
Enols and Enolates: Advanced Synthesis Topics	Malonate Ester	36:10
Common Reagents: Diethyl Malonate	Syntheses)	36:11
Common Reagents: Ethyl Acetoacetate		37:27
Enols and Enolates: Advanced Synthesis Topics		38:06
Example: Transform	Enamines	38:07
Advanced Synthesis Topics: Enamines		41:52
Enamines		41:53
Advanced Synthesis Topics: Enamines		43:06
Reaction with Ketone/Aldehyde		43:07
Example		44:08
Advanced Synthesis Topics: Enamines		45:31
Example: Use Enamines as Nu: (Like Enolate)		45:32
Advanced Synthesis Topics: Enamines		47:56
Example		47:58

Planning for the ACS Final Exam

(multiple-choice, Chapters 1-22)

Study Guide & Online Practice Exam Available



Organic Chemistry - Study Guide

\$30

Organic Chemistry - Bundle (Includes: Study Guide with Timed Online Practice Exam)

\$34

Organic Chemistry - Bundle (Includes: Study Guide with Online Tutorial Practice Exam)

\$39

Organic Chemistry - Bundle (Includes: Study Guide, Online Tutorial and Timed Online Practice Exams)

\$46

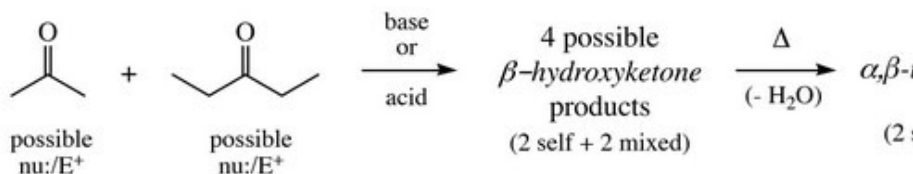
Due ASAP to Gradescope

Ch. 21 Free Red Ink Homework

California State Polytechnic University, Pomona
Organic Chemistry II CHM 3150, Dr. Laurie S. Starkey
"Messy Aldol" Homework

Name: _____ Section (Day/Time): _____

Predict the possible aldol products for the following reaction (**provide 8 structures**). Choose **one final product** (α,β -unsaturated ketone) and show **both** the acid- and base-catalyzed mechanisms.



Exam Wrapper & Corrections

CHM 3150 Exam 2 Wrapper - Post-Test Survey

Name: _____

Metacognition By taking a step back and **thinking** about the way you **learn**, you can **improve** your learning! The following survey will guide you through an **exercise in self-reflection** with the goal of improving your performance on the next exam. You will earn **4 points credit** if you complete this survey, and **4 points for corrections** (*include written reflection, if score <50). It analyzes the following three areas:

1. How did you prepare for this exam?
2. What kinds of mistakes did you make?
3. How will you prepare differently next time?

* If exam score is below 50, you must submit a written reflection with your exam corrections (what will you do differently for the rest of the semester?)

What was your score* on Exam II?

What was your score on Exam I?

1. Leading up to the exam, approximately how many hours per week outside of class (on average) did you spend studying Organic Chemistry?

2. Given the number of textbook problems in each chapter (#), about how many did you work on?

Mark here if no VitalSource (eText) book: ☐

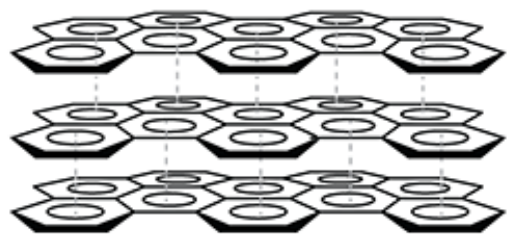
Ch.19 (Ald/Ketone)		Ch. 20 (CA Deriv)	
In-chapter		In-chapter	
End-of-chapter		End-of-chapter	

of Flashcards?

hours per week?

Up Next: Chapter 17 Aromaticity

(Only one lecture, and then Ch. 18!)



Graphite

