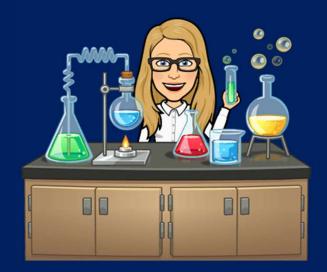
For voting, go to: https://pollev.com/lauriestarke263 or text LAURIESTARKE263 to 37607 to join poll





Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3140 Organic Chemistry I Announcements 2/11/25

Today's Topic: Exam I Review

- Bonding, Physical Properties (Ch. 1)
- Resonance & Drawing Structures (Ch. 2)
- Proton-Transfer Rxns (Ch. 3)

Weeks <u>1-4</u> Chapter 1
Bonding/Structure
Hybridization

Chapter 2
Lewis Structures
& Resonance

Chapter 3
Acid-Base
Reactions

Exam I

Exam I Thursday, 2/13 (Chapters 1, 2, 3)

75-minute written exam

no multiple-choice, no Scantron, no lecture after

No notes, calculators, model kits allowed

Bring pencil(s), eraser

See sample exams on course homepage

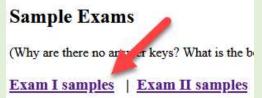
See typical length, format

You must come to your registered section

• 10 am, 3 pm, or 5 pm

Extra office hour/review session (Zoom)

Tuesday 2/11, 9-10 pm







HAPPY VALENTINE'S DAY!





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YOU R2
AWESOME!



3 Assignments & Ch. 1/2/3 EOC due on Th. 2/13

California State Polytechnic University, Pomona Organic Chemistry I, CHM 3140, Dr. Laurie S. Starkey Lewis Structure and 3-D Sketch Homework Name: Section: (day/time)			Don't wait until Thursday night! Set a reminder!			
For each of the following compounds, draw a 3-dimensional sketch, using dashes and wedges. Position the molecule such that the maximum number of atoms are located in the plane of the page. Be sure to show all atoms include the orientation Organic Chemistry I, CHM 3140, Dr. Laurie S. Starkey, O			Cal Poly Pomona	l <u> </u>	Grades	cope
CH ₃ CH ₂ CH ₂ CH ₂ C	- i	Lewis Structures & Resonance	76 IV	. Cal Palv Par	FridayFive 2/5	3.0
	structures. Use curved arrows to cominor contributors, or whether th NOTE: if a structure is charged the	Compa	HM 3140, Dr. Laurie S. Starkey, Cal Poly Pontare Acid Strength Homework Section (day/time):		OLC Report Week 3	1.0
СН₃СНСНСНО	spreading a charge among multiple CH ₃ CO ₂ H	The nitro group (NO ₂) is an electron-withdrawing group (EWG). The pK_a for meta-nitrophe and the pK_a for para-nitrophenol (B) is 7.1. Use this data to <u>explain</u> the effects of the nitro acidity of phenol. Resonance effects should be considered. Use <u>complete</u> drawings to stanswer (i.e., draw out the nitro group and ALL relevant resonance forms of the conjugate base Consider the following guiding questions as you prepare your explanation: 1) What is the relationship between pK_a and acidity? Which is the stronger acid, A or l. 2) What do the conjugate bases of these phenols look like? (please refer to them as CB 3) Are the nitro groups involved in the resonance of CB-A and/or CB-B? 4) Which conjugate base is more stable? Why?			3D Sketch	3.0
					Resonance Homework	3.0
	OH3—CH—C≡N				Acid Strength Homework	3.0
	⊕ CH₃CHOH	OH			Chapter 1 EOC	5.0
'		NO ₂	←→		Chapter 2 EOC	5.0
		meta-nitrophenol CB-A structure			Chanter 3 FOC	5.0