

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



Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3140 Organic Chemistry I

Announcements 1/21/25

Tracking Our Progress

CHM 3140 Organic Chemistry I, Dr. Laurie S. Starkey, Spring 2025
Tentative Schedule (Chapter and *Worksheet/Step* # given for each day)

Week	Mon	Tues	Wed	Thurs	Fri
1	1/20	1/21 Ch. 1 #1	1/22	1/23 Ch. 1 #2	1/24
2	1/27	1/28 Ch.1 #3 Ch.2 #1	1/29	1/30 Ch. 2 #2	1/31
3	2/4	2/4 Ch. 3 #1	2/5	2/6 Ch. 3 #2	2/7
4	2/10	2/11 Exam Review	2/12	2/13 Exam I	2/14

You are
here

Today's Topic: Chapter 1 – Step 1

Gen. Chem. Review

Daily To-Do

Flipped Lectures

Step 1

Read

- Read Klein Sections 1.1 – 1.6
- Watch flipped lectures (Parts 1 & 2)
- Work through SkillBuilders 1.2, 1.3, 1.4, 1.5

Practice

Part 1 - Intro to Organic Chemistry and General Chem. Review

48 minutes, *skeleton notes pages 1-1 to 1-3*

Part 2 - Drawing Lewis Structures

22 minutes, *skeleton notes page 1-4*

Watch

Step 2

- Read Klein Sections 1.7 – 1.11
- Watch flipped lectures (Parts 1 & 2)
- Work through SkillBuilders 1.7 & 1.8
- 3D sketch homework (submit to Gradescope)

Part 3 - Bonding and Hybridization

40 minutes, *skeleton notes pages 1-5 to 1-7*

Part 4 - 3D Sketches

24 minutes, *skeleton notes pages 1-7 to 1-8*

Watch for Thursday

<https://www.chemistryconnected.com/courses/CHM3140>



Organic Chemistry I, CHM 3140
Dr. Laurie Starkey, Cal Poly Pomona

[Syllabus \(Course Points\)](#) | [Semester Schedule](#)
Dr. Starkey's [welcome video](#) and current [daily schedule](#)

Weeks <u>1-4</u>	Chapter 1 Bonding/Structure Hybridization	Chapter 2 Lewis Structures & Resonance	Chapter 3 Acid-Base Reactions		<i>Exam I</i>
Weeks <u>5-8</u>	Chapter 4 Alkanes & Cycloalkanes	Chapter 5 Stereochemistry	Chapter 15 NMR, Part 1		<i>Exam II</i>
Weeks <u>9-12</u>	Chapter 15 NMR, Part 2	Chapter 6 Chemical Reactions	Ch. 7, Part 1 Alkyl Halides: Substitution Reactions	Ch. 7, Part 2 Alkyl Halides: Elimination Reactions	<i>Exam III</i>
Weeks <u>13-15</u>	Chapter 8 Reactions of Alkenes	Chapter 9 Reactions of Alkynes	Chapter 10 Radical Reactions	—	Ch. 1-11, 15 Final Exam

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<https://www.chemistryconnected.com/courses/CHM3140>

Worksheets, Recordings of Problem-Solving Sessions & Clicker Questions ([Semester Schedule](#))



Week 1	Week 2	Week 3	Week 4	Week 5
Tu: Worksheet Ch1-1 Th: Worksheet Ch1-2	Tu: Worksheet Ch2-1 Th: Worksheet Ch2-2	Tu: Worksheet Ch3-1 Th: Worksheet Ch3-2	Tu: Worksheet Exam1 Review Review Session 9 pm (Zoom) Th: Exam I - 2/13	Tu: Worksheet Ch4-1 Th: Worksheet Ch4-2
Week 6	Week 7	Week 8	Week 9	Week 10
Tu: Worksheet Ch5-1 Th: Worksheet Ch5-2	Tu: Worksheet Ch5-3 Th: Worksheet Ch.15-1	Tu: Worksheet Exam2 Review Review Session 9 pm (Zoom) Th: Exam II - 3/13	Tu: Worksheet Ch.15-2 Th: Worksheet Ch6	Tu: Worksheet Ch7-1 Th: Worksheet Ch7-2
=====	<i>Spring</i>	<i>Break</i>	<i>3/31 - 4/4</i>	=====
Week 11	Week 12	Week 13	Week 14	Week 15
Tu: Worksheet Ch7-3 Th: Worksheet Ch7-4	Tu: Worksheet Exam3 Review Review Session 9 pm (Zoom) Th: Exam III - 4/17	Tu: Worksheet Ch8-1 Th: Worksheet Ch8-2	Tu: Worksheet Ch9-1 Th: Worksheet Ch9-2	Tu: Worksheet Ch10 Th: Worksheet Ch11
Final Exam Review 9 pm Sunday, 5/11 - Worksheet Cumulative Final Exam: Chapters 1-11 & 15 Tuesday, 5/13 9:00–10:50 am (Section 05) 3:00–4:50 pm (Section 02) 5:00–6:50 pm (Section 03)				

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CHM 3140 Course Links

- [Gradescope](#) (log in with School Credentials)
- [Office Hours Zoom](#) ([what to expect](#))
- [OLC rosters](#) (study group sign-ups)
- [Course Padlet](#) (meet your classmates!)
- [Discord server](#) ([invite link](#)) (course Q&A, discussions)
- [Poll Everywhere](#) (for class meetings) or text LAURIESTARKE263 to 37607 to join poll
- [Canvas](#) (does NOT reflect your current grade!!)
- [WileyPLUS](#) online versions of textbook problems and other resources (videos, interactive graphics, etc.)

O-Chem Survival Handouts/Resources

- [What to Expect \(& student testimonials\)](#)
- [How to Earn an A](#)
- [Exam Study Hints](#) and [Study Cycle](#)
- [Chemistry is an extreme sport!](#) (fun video)
- [How to Get the Most Out of Studying](#) video series by Psychology Professor, Dr. Stephen Chew
- [Stress-Relief Toolkit](#) compiled by [CPP CAPS](#)
- [Course Learning Outcomes](#)

WileyPLUS – Online Textbook Problems & More

The screenshot displays the WileyPLUS user interface. On the left is a dark blue sidebar with navigation icons and labels: WP logo, Account (with a '3' badge), Dashboard, Courses, Calendar, Inbox, History, Commons, and Get HELP - SOS (with a '9' badge). To the right of the sidebar is a light blue menu with links: Home, Modules, Wiley Course Resources, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, BigBlueButton, Collaborations, Wiley Course Resources, and Settings.

The main content area shows a dropdown menu for 'Module 1: A Review of General Chemistry'. Below this, a list of assignments is displayed, with a red rectangular box highlighting the first four items:

- 1.1 - 1.3: A Review of General Chemistry (SkillBuilders 1.1 & 1.2) 35 pts
- 1.4: Identifying Formal Charges (SkillBuilder 1.3) 30 pts
- 1.5: Induction and Polar Covalent Bonds (SkillBuilder 1.4) 20 pts
- 1.6: Reading Bond-Line Structures (SkillBuilder 1.5) 20 pts

Below the highlighted items, the following assignments are visible:

- 1.7: Atomic Orbitals (SkillBuilder 1.6) 25 pts
- 1.8 - 1.10: Bonding - Molecular Orbital (MO) Theory and Hybridization (SkillBuilder 1.7) 40 pts
- 1.11: Predicting Molecular Geometry - VSEPR Theory (SkillBuilder 1.8) 20 pts
- 1.12: Dipole Moments and Molecular Polarity (SkillBuilder 1.9) 25 pts
- 1.13 & 1.14: Intermolecular Forces, Physical Properties, and Solubility (SkillBuilder 1.10) 15 pts
- End of Chapter Problems: Chapter 1 195 pts

CHM
3140

Introduce Yourself on Padlet!

Laure S. Starkey • 11d

The Students of CHM 3140 (Spring 2025)

Introduce yourself with a photo (of you, or your avatar, or your pet, or your family, or a favorite vacation, or your favorite food...

Hi from Dr. Starkey!



Venice Beach with my husband and our two college kids. (Eille is studying CSI and Andy is majoring in Computer Science)

Hi everyone! I'm very excited to be diving back into Organic Chemistry with you this year. Outside of the classroom, I love to travel, golf, kayak and play pinball.

[Add comment](#)



You.
Belong.

Join a Study Group for Course Credit!

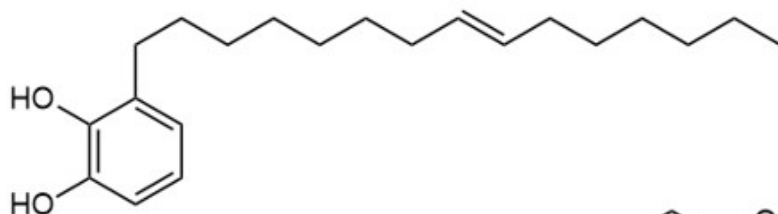
Remember, each OLC group ideally has **3-4 people** in it. OLC participants will earn **up to 7 points** if they:

1. Meet with OLC for at least one hour each week; AND
2. Record your activities after each meeting (via weekly "OLC Report" Gradescope assignment; a minimum of 7 entries required to receive full credit)

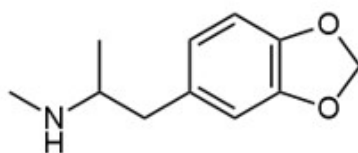
**OLC
Rosters**

OLC #1 "Guardians of the O-Chem Galaxy" Dr. Starkey Chris Pratt Wonder Woman Billy Bronco	OLC #2 	OLC #3	OLC #4
OLC #5	OLC #6	OLC #7	OLC #8

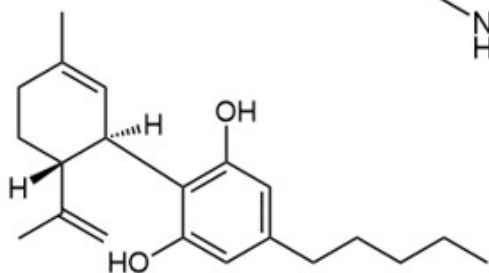
Interesting Molecules: Can You Match the Structure and Property?



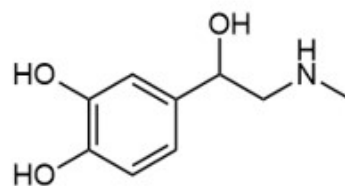
3,4-methylenedioxymethamphetamine
an octopus on this drug craves hugs



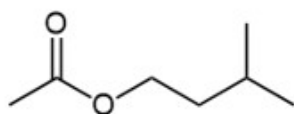
(Z)-7-dodecenyl acetate
puts elephants and moths in
a romantic mood



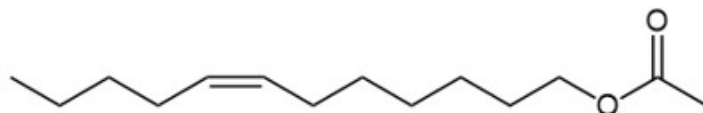
urushiol
poison ivy allergy & irritant



cannabidiol
pain-reliever from hemp



isoamyl acetate
might make a monkey go ape



adrenaline
Fight? or Flight?!