

# 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	2/3	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 <b>Exam I</b>	2/14
5	2/17	2/18 Ch. 4 #1	2/19	2/20 Ch. 4 #2	2/21
6	2/24	2/25 Ch. 5 #1	2/26	2/27 Ch. 5 #2	2/28
7	3/3	3/4 Ch. 5 #3	3/5	3/6 Ch.15 #1	3/7
8	3/10	3/11 Exam Review	3/12	3/13 <b>Exam II</b>	3/14
9	3/17	3/18 Ch.15 #2	3/19	3/20 Ch. 6 #1	3/21
10	3/24	3/25 Ch. 7 #1	3/26	3/27 Ch. 7 #2	3/28
S P R I N G B R E A K 3/31 – 4/4					
11	4/7	4/8 Ch. 7 #3	4/9	4/10 Ch. 7 #4	4/11
12	4/14	4/15 Exam Review	4/16	4/17 <b>Exam III</b>	4/18
13	4/21	4/22 Ch. 8 #1	4/23	4/24 Ch. 8 #2	4/25
14	4/28	4/29 Ch. 9 #1	4/30	5/1 Ch. 9/10 #2	5/2
15	5/5	5/6 Ch. 10 #1	5/7	5/8 Ch. 11 #1	5/9
<b>Finals</b> (section)	5/12	<b>Tue. 5/13</b> 9:00–10:50 am (05) 3:00–4:50 pm (02) 5:00–6:50 pm (03)	5/14	5/15	5/16

## Organic Chemistry I, CHM 3140 Material Covered (Klein Text):

Ch. 1 **General Chemistry Review** (bonding, Lewis structures, hybridization, physical properties)

Ch. 2 **Molecular Representations** (resonance, formal charges, intro to functional groups)

Ch. 3 **Acid/Base (Proton Transfer) Reactions** Exam I

Ch. 4 **Alkanes & Cycloalkanes** (conformations, nomenclature, 3D sketches)

Ch. 5 **Stereochemistry** (chirality, stereoisomerism: enantiomers/diastereomers, optical activity)

Ch.15 **NMR Spectroscopy** (Section 15.10 on Exam III) Exam II

Ch. 6 **Study of Chemical Rxns** (thermodynamics, kinetics, E diagrams, arrow pushing patterns)

Ch. 7 **Alkyl Halides: Nucleophilic Substitution & Elimination Reactions** ( $S_N2$ ,  $S_N1$ , E2, E1) Exam III

Ch. 8 **Reactions of Alkenes** (addition reactions, oxidation reactions, synthesis strategies)

Ch. 9 **Reactions of Alkynes** (addition reactions, ozonolysis, acidity of alkynes, alkylation)

Ch. 10 **Radical Reactions** (free radical halogenation, radical additions to alkenes, polymerization)

Ch. 11 **Synthesis Strategies** (and Review of Chapters 7-10)

[Suggested textbook problems](#): SkillBuilders & EOC – see “Textbook Problems Cover Sheet” for each chapter.