

## Chemistry 333

### Assigned Problems

**Text:** Wade, *Organic Chemistry*, 8th edition.

<u>Chapter</u>	<u>Topics</u>	<u>Problems</u>
1	Introduction and Review.	1, 3–6, 9–11, 14, 18, 19, 21, 23, 41, 45, 47, 52.
2	Structure and Properties of Organic Molecules.	3, 5, 7, 14–20, 22, 24, 38, 44.
3	Structure and Stereochemistry of Alkanes.	3, 4, 11, 12, 16, 18–23, 25–27, 29, 38, 42, 44, 47, 49.
4	The Study of Chemical Reactions.	3, 7–9, 16, 21, 23, 25, 35–37, 39, 48, 50, 54.
5	Stereochemistry.	1–6, 11, 12, 16, 18, 20, 21, 23, 25, 27–30, 33, 34, 36.
6	Alkyl Halides: Nucleophilic Substitution and Elimination.	3, 11, 14, 16, 17, 19, 22, 23, 26, 29–32, 34, 37, 40, 53, 56, 59, 61, 65, 72, 74c,d, 75.
7	Structure and Synthesis of Alkenes.	1, 2, 5a–d, 8a–g, 10, 14, 18, 25, 27, 29, 45, 57.
8	Reactions of Alkenes.	1, 5, 7, 13, 15, 18, 19, 23, 26, 27, 29a, b, 30, 35, 36, 47a–n, 49, 56a–g, 64, 67, 70.
9	Alkynes.	5, 7, 8, 12a, b, d, 13, 20, 25, 32, 37a–d, g–k.
10	Structure and Synthesis of Alcohols.	1, 11–14, 18, 19, 21–25, 39.
11	Reactions of Alcohols.	1, 5, 6, 9, 12, 15, 19, 20, 23, 26, 27, 30, 37, 38, 44, 45, 56.
12	Infrared Spectroscopy and Mass Spectrometry.	2–9, 11, 12, 15, 16, 20, 21, 25, 28.
13	Nuclear Magnetic Resonance Spectroscopy.	1–3, 6–8, 11–13, 16, 18–20, 24a–c, 26–31, 34, 40, 49, 51, 54.

New or modified problems from Wade, *Organic Chemistry*, 9th edition:

1: 7–9, 41    2: 11, 21, 29    3: 5, 52    7: 53    8: 71    10: 36    11: 2    12: 30    13: 54.