

Schedule of Experiments

Text: Wade, *Organic Chemistry*, 7th edition.
Laboratory manual: California State University, Northridge, Department of Chemistry and Biochemistry, *Chemistry 334L Laboratory Manual*.

<u>Dates</u>	<u>Experiment, Pre-Laboratory Preparation</u>
Jan. 23–27	Check-In, Safety Review. CSU Northridge Chemistry 334L Laboratory Manual, pp. 1–17.
Jan. 30 – Feb. 3	Organic Structure Determination by Spectrometric Techniques. Wade, sections 12-1 to 12-12, 13-1 to 13-13; Appendices 1A, 1C, 2A, 2B. CSU Northridge Chemistry 334L Manual, pp. 25–38.
Feb. 6–10	Stereoselective Synthesis of <i>cis</i> -4-Cyclohexene-1,2-dicarboxylic Anhydride. Wade, sections 15-1 to 15-3, 15-11, 15-12. CSU Northridge Chemistry 334L Laboratory Manual, pp. 44–47.
Feb. 13–17	Substituent Effects on the Rate of Electrophilic Aromatic Bromination. Wade, sections 17-1, 17-2, 17-6 to 17-9. CSU Northridge Chemistry 334L Laboratory Manual, pp. 48–52.
Feb. 20–24	Regioselective Bromination of Acetanilide. Wade, sections 17-1, 17-2, 17-6 to 17-9. CSU Northridge Chemistry 334L Laboratory Manual, pp. 53–56. Wash glassware for "Synthesis of 2-Methyl-2-hexanol" experiment.
Feb. 27 – March 2	Synthesis of 2-Methyl-2-hexanol. Wade, sections 10-8 to 10-10, 20-8B. CSU Northridge Chemistry 334L Laboratory Manual, pp. 61–66.
March 5–9	Synthesis of 2-Methyl-2-hexanol (continued). Wade, sections 10-8 to 10-10, 20-8B. CSU Northridge Chemistry 334L Laboratory Manual, pp. 61–66.

- March 12–16 Basic Hydrolysis of Benzonitrile.
Wade, sections 21-7C, 21-7D.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 72–77.
- March 19–23 Fischer Esterification of Lauric Acid.
Wade, sections 20-10, 20-15, 21-5.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 78–82.
- April 9–13 Mixed Aldol Condensations of Benzaldehyde and Acetone.
Wade, sections 22-1, 22-2, 22-5, 22-7 to 22-11.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 83–89.
- April 16–20 Mixed Aldol Condensations of Benzaldehyde and Acetone (continued).
Wade, sections 22-1, 22-2, 22-5, 22-7 to 22-11.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 83–89.
- April 23–27 Polymers.
Wade, sections 26-1, 26-2A, 26-7.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 90–95.
- April 30 – May 4 Synthesis of Diacetone Mannose.
Wade, sections 18-18, 18-19, 23-6, 23-7.
CSU Northridge Chemistry 334L Laboratory Manual, pp. 96–100.
- May 7–11 Check-Out.