

Schedule of Experiments

Text: Wade, *Organic Chemistry*, 9th 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>
July 16	Check-In, Safety Review CSU Northridge Chemistry 334L Laboratory Manual, pp. 1–17 UCLA video: Safety
July 17	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 CSU Northridge video: The Diels-Alder Reaction
July 18	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 CSU Northridge video: Substituent Effects on the Rate of Electrophilic Aromatic Bromination
July 23	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 CSU Northridge video: Electrophilic Aromatic Substitution: Regioselective Bromination of Acetanilide
July 24, 25	Synthesis of 2-Methyl-2-hexanol Wade, sections 10-8 to 10-10, 20-8B CSU Northridge Chemistry 334L Laboratory Manual, pp. 61–66 CSU Northridge video: The Grignard Reaction

- July 30, 31 Stereoselective Alkene Synthesis by the Horner-Emmons Reaction
Wade, sections 18-18
CSU Northridge Chemistry 334L handout
CSU Northridge video: [The Horner-Emmons Reaction](#)
- August 1 Fischer Esterification of Lauric Acid
Wade, sections 20-10, 20-15, 21-5
CSU Northridge Chemistry 334L Laboratory Manual, pp. 78–82
CSU Northridge video: [Fischer Esterification of Lauric Acid](#)
- August 6 Basic Hydrolysis of Benzonitrile
Wade, sections 21-7C, 21-7D
CSU Northridge Chemistry 334L Laboratory Manual, pp. 72–77
CSU Northridge video: [Basic Hydrolysis of Benzonitrile](#)
- August 7, 8 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
CSU Northridge video: [The Aldol Condensation](#)
- August 13 Polymers
Wade, sections 26-1, 26-2, 26-7
CSU Northridge Chemistry 334L Laboratory Manual, pp. 90–95
CSU Northridge video: [Polymers](#)
- August 14 Synthesis of Diacetone Mannose
Wade, sections 18-16, 18-17, 23-4, 23-5
CSU Northridge Chemistry 334L Laboratory Manual, pp. 96–100
CSU Northridge video: [Synthesis of Diacetone Mannose](#)
- August 15 Check-Out