## Schedule of Experiments

Text:	Wade, Organic Chemistry, 9th edition.
Laboratory manual:	California State University, Northridge, Department of Chemistry,
	Chemistry 333L Laboratory Manual.
Dates	Experiment, Pre-Laboratory Preparation
May 28	Check-in.
	Safety Review.
	CSU Northridge Chemistry 333L Manual, pp. 1–17.
	Oviatt Library Safety DVD.
May 29	Melting Points.
	Evaluation of Purity by Melting-Point Determination.
	Melting-Point Determination of an Unknown.
	CSU Northridge Chemistry 333L Manual, pp. 18–28.
	Oviatt Library Melting-Point Determination DVD.
May 30	Purification of Acetanilide by Recrystallization.
	CSU Northridge Chemistry 333L Manual, pp. 29-41.
	Oviatt Library Recrystallization DVD.
June 4	Simple Distillation.
	Isolation of $\alpha$ -Pinene.
	CSU Northridge Chemistry 333L Manual, pp. 48-67.
	Modification: Skip the Boiling-Point Determination of an Unknown section.
	Oviatt Library Simple Distillation DVD.
June 5	Distillation of Two Volatile Compounds With and Without a Vigreux Column.
	CSU Northridge Chemistry 333L Manual, pp. 68–73.
	Work together in pairs to do both distillations.
	Oviatt Library Fractional Distillation DVD.
June 6	Molecular Modeling.
	Conformational Analysis with ChemDraw and Chem3D.
	CSU Northridge Chemistry 333L Manual, pp. 81–86.
	Wade, Sections 3-13 to 3-15.
June 11	Catch-up.

June 12	Extraction.
	Which Phase is Which?
	The "Salting-Out" Effect.
	Separation via Acid-Base Extraction.
	CSU Northridge Chemistry 333L Manual, pp. 87–96, 99–101.
	Oviatt Library Extraction DVD.
June 13	Thin-Layer Chromatography (TLC).
	TLC Analysis of o-Hydroxyacetophenone and p-Hydroxyacetophenone.
	TLC Analysis of Analgesic Components and an Unknown Mixture.
	CSU Northridge Chemistry 333L Manual, pp. 103-112.
	Oviatt Library Thin-Layer Chromatography DVD.
June 18, 19	Separation of Cholesterol and a Cholesteryl Ester by Column Chromatography.
	CSU Northridge Chemistry 333L Manual, pp. 113-124.
	Oviatt Library Column Chromatography DVD.
June 20, 25	Acid-Catalyzed Dehydration of 2-Methylcyclohexanol.
	CSU Northridge Chemistry 333L Manual, pp. 125–133, 189–192.
	Wade, Sections 6-13 to 6-15, 7-8A to 7-8C, 7-10, 7-11, 7-17B, 7-18, 11-7, and 11-10.
	Oviatt Library Gas Chromatography DVD.
June 26, 27	Stereoselective Reduction of 4-tert-Butylcyclohexanone.
	CSU Northridge Chemistry 333L Manual, pp. 138–142, 183–184, 189–192.
	Wade, Sections 10-11 and 18-11.
	Oviatt Library Infrared Spectroscopy DVD.
July 2	Infrared Spectroscopy.
	CSU Northridge Chemistry 333L Manual, pp. 143–149, 183–184.
	Wade, Sections 12-1 to 12-12.
	Appendices 2A and 2B.
	Oviatt Library Infrared Spectroscopy DVD.
July 3	Organic Structure Determination by Spectrometric Techniques.
	CSU Northridge Chemistry 333L Manual, pp. 150–163, 183–188.
	Wade, Sections 12-1 to 12-12, 13-1 to 13-13.
	Appendices 1B, 1C, 2A, and 2B.
July 9	Check-out.