

CHEM 2311 Spring 2024: Experiment Schedule

Week #	Date	Course Content	Technique(s)
1	Jan 15 Jan 16	No Lab (Complete "Getting Ready" Module)	N/A
1	Jan 17 Jan 18	No Lab (Complete "Getting Ready" Module)	N/A
2	Jan 22 Jan 23	Lab Check-In	N/A
2	Jan 24 Jan 25	Experiment #1 (Part 1): Spectroscopy Review and NMR Analysis of a Two Solvent Mixture	IR, NMR
3	Jan 29 Jan 30	Experiment #1 (Part 2): Spectroscopy Review and NMR Analysis of a Two Solvent Mixture	NMR
3	Jan 31 Feb 1	Experiment #2 (Part 1): Identity and Purity of Pharmaceutical Mixtures	MPA, TLC
4	Feb 5 Feb 6	Experiment #2 (Part 2): Identity and Purity of Pharmaceutical Mixtures	MPA, TLC
4	Feb 7 Feb 8	Experiment #3 (Part 1): Column Chromatography	TLC
5	Feb 12 Feb 13	Experiment #3 (Part 2): Column Chromatography	TLC, CC
5	Feb 14 Feb 15	Experiment #4 (Part 1): Nucleophilic Substitution	MPA
6	Feb 19 Feb 20	Experiment #4 (Part 2): Nucleophilic Substitution	Recrystallization, MPA, TLC, IR, NMR
6	Feb 21 Feb 22	Experiment #5: Dehydration of 2-Methyl-2-Butanol	Fractional Distillation, GC
7	Feb 26 Feb 27	TLC Technique Final	TLC
7	Feb 28 Feb 29	Experiment #6: Acid-Base Extraction	Acid-Base Extraction, MPA
8	Mar 4 Mar 5	Spring Break	N/A
8	Mar 6 Mar 7	Spring Break	N/A
9	Mar 11 Mar 12	Make-Up for Experiments #1 – 6	Recrystallization, Acid-Base Extraction,

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			Fractional Distillation, MPA, TLC, CC, IR, NMR, GC
9	Mar 13 Mar 14	Experiment #7 (Part 1): Steam Distillation Versus Liquid CO ₂	Steam Distillation, NMR
10	Mar 18 Mar 19	Experiment #7 (Part 2): Steam Distillation Versus Liquid CO ₂	NMR
10	Mar 20 Mar 21	Experiment #8 (Part 1): Green Synthesis of Methyl Cinnamate	Acid-Base Extraction, TLC, MPA, IR
11	Mar 25 Mar 26	Experiment #8 (Part 2): Green Synthesis of Methyl Cinnamate	NMR
11	Mar 27 Mar 28	Experiment #9 (Part 1): Solvent-Free Synthesis of Chalcones	NMR
12	Apr 1 Apr 2	Experiment #9 (Part 2): Solvent-Free Synthesis of Chalcones	Recrystallization, NMR
12	Apr 3 Apr 4	Experiment #10: Separating Unknowns Capstone	Recrystallization, Acid-Base Extraction, MPA, TLC, IR, NMR
13	Apr 8 Apr 9	Make-Up for Experiments #7 – 10	Recrystallization, Acid-Base Extraction, Steam Distillation, MPA, TLC, IR, NMR
13	Apr 10 Apr 11	Recrystallization and Extraction Technique Finals	Recrystallization, Acid-Base Extraction
14	Apr 15 Apr 16	No Lab	N/A
14	Apr 17 Apr 18	Technique Final Retakes	Recrystallization, Acid-Base Extraction, TLC
15	Apr 22 Apr 23	Lab Check-Out	N/A
15	Apr 24 Apr 25	No Lab	N/A