

TUESDAY (ROOM 209)

\*Molecular Models Kit (MMK) is required for Experiments Marked\*

## Required materials:

- Chemical Splash Goggles & Lab Coat
- Molecular Models Kit: "MOLECULAR VISIONS™ Model Kit"
- Lab Manual: *CHM2210L/2211L, Broward College, North Campus*. Pearson Learning Solutions, 2019. ISBN 13: 9781323900260.

TUESDAY	TITLE OF EXPERIMENT
1/10	Introduction, Safety, ChemDraw Tutorial and Assignment
1/17	<i>Extraction &amp; Evaporation</i> : Separating the Components of "Panacetin" [Microscale]
1/24	<i>IR &amp; MS Characterization</i>
1/31	<sup>1</sup> H-NMR Characterization & Unknown I.D. by IR, MS, <sup>1</sup> H-NMR
2/7	Intro. to Vacuum Oven Drying & Nitration of Methyl Benzoate
2/14	<i>Column Chromatography, UV-VIS Spectrometry</i> : Isolation and Isomerization of Lycopene from Tomato Paste [Microscale]
2/21	Optical Resolution of 2-Phenylsuccinic acid ( <i>Heating Under Reflux, Recovery &amp; Recrystallization</i> ) & Understanding Polarimetry (Vernier Polarimeter)
2/28	** Optical Resolution of 2-Phenylsuccinic acid ** ( <i>Melting Point &amp; Optical Rotation via Polarimetry</i> )
3/7	NO LAB, SPRING BREAK
3/14	EXAM 1
3/21	Synthesis and Spectral Analysis of Aspirin [Microscale-Reaction & Separation] & Foundations of Gas Chromatography
3/28	Synthesis and Spectral Analysis of Aspirin [Microscale-Purification & Analysis] {Recrystallization, IR, NMR} & <i>Thin Layer Chromatographic</i> Analysis of Drug Components
4/4	I.D. of a Conjugated Diene from Eucalyptus Oil [Standard Scale-Reaction & Separation] {G.C.} & Organic Structures
4/11	** I.D. of a Conjugated Diene from Eucalyptus Oil [Standard Scale] ** [Purification & Analysis] {Recrystallization, IR} & Part C: Stereochemistry of the Adduct
4/18	Spectral Identification of Monoterpenes (UV-VIS, IR, NMR)
4/25	EXAM 2