|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Week of** | **Experiment** |  | **Assignment Due** | |  | **Analysis** |
|  |  |  |  | |  |  |
| Jan. 10 | **NO LABS** |  | **-------** | |  |  |
|  |  |  | |  |  |  |
| Jan. 17 | Introduction and Molecular Modeling\* |  | **-------** | |  |  |
|  |  |  |  | |  |  |
| Jan. 24 | Recrystallization and Melting Point (T) |  | *Molecular Modeling\** | |  | mp |
|  |  |  |  | |  |  |
| Jan. 31 | Extraction of Caffeine (T) |  | *Recrystallization* | |  | GC-MS |
|  |  |  |  | |  |  |
| Feb. 07 | Distillation and Gas Chromatography (T) |  | *Extraction* | |  | GC |
|  |  |  |  | |  |  |
| Feb. 14 | Thin Layer Chromatography (T) |  | *Distillation* | |  |  |
|  |  |  |  | |  |  |
| Feb. 21 | Column Chromatography (T) |  | *TLC* | |  |  |
|  |  |  |  | |  |  |
| Feb. 28 | Friedel-Crafts Acylation (R) |  | *Column* | |  | 1H-NMR, IR |
|  |  |  |  | |  |  |
| Mar. 07 | Grignard Reaction (R) |  | *Acylation* | |  |  |
|  |  |  |  | |  |  |
| Mar. 14 | **NO LABS – Spring Break** |  | **-------** | |  |  |
|  |  |  |  | |  |  |
| Mar. 21 | Grignard Reaction (R) |  | **-------** | |  | IR, mp |
|  |  |  |  | |  |  |
| Mar. 28 | Fischer Esterification (R) |  | *Grignard* | |  | 13C-NMR |
|  |  |  |  | |  |  |
| Apr. 04 | Aldol Condensation (R) |  | *Fischer* | |  | 1H-NMR, mp |
|  |  |  |  | |  |  |
| Apr. 11 | Hydrogenation of Fats (R) |  | *Aldol* | |  | 1H-NMR |
|  |  |  |  | |  |  |
| Apr. 18 | **NO LABS** |  | *Hydrogenation* | |  |  |

# -- SCHEDULE OF EXPERIMENTS --

\* The modeling assignment is not a lab report and does not follow the report guidelines.

(T) – Denotes Technique Experiment

(R) – Denotes Reaction Experiment