**Schedule of Experiments**­­­­­­­­­­

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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Week of** | **Experiment** |  | **Assignment Due** |  | **Analysis** | |  |  |  |  |  |  | | Jan. 11 | **NO LABS** |  | **-------** |  |  | |  |  |  |  |  |  | | Jan. 18 | Introduction and Molecular Modeling\* |  | **-------** |  |  | |  |  |  |  |  |  | | Jan. 25 | Recrystallization and Melting Point (T) |  | *Molecular Modeling\** |  |  | |  |  |  |  |  |  | | Feb. 1 | Extraction of Caffeine (T) |  | *Recrystallization* |  | GC-MS | |  |  |  |  |  |  | | Feb. 8 | Distillation and Gas Chromatography (T) |  | *Extraction* |  | GC | |  |  |  |  |  |  | | Feb. 15 | Friedel-Crafts Acylation (R) |  | *Distillation* |  | 1H-NMR, IR | |  |  |  |  |  |  | | Feb. 22 | Grignard Reaction (R) |  | *Acylation* |  |  | |  |  |  |  |  |  | | Feb. 29 | Grignard Reaction |  | **-------** |  | IR | |  |  |  |  |  |  | | Mar. 7 | Fischer Esterification (R) |  | *Grignard* |  | 13C-NMR | |  |  |  |  |  |  | | Mar. 14 | **NO LABS – Spring Break** |  | **-------** |  |  | |  |  |  |  |  |  | | Mar. 21 | TLC (T) |  | *Fischer* |  |  | |  |  |  |  |  |  | | Mar. 28 | Aldol Condensation (R) |  | *TLC* |  | 1H-NMR | |  |  |  |  |  |  | | Apr. 4 | Hydrogenation of Fats (R) |  | *Aldol* |  | 1H-NMR | |  |  |  |  |  |  | | Apr. 11 | Column Chromatography (T) |  | *Hydrogenation* |  |  | |  |  |  |  |  |  | | Apr. 18 | **NO LABS** |  | *Column Chrom.* |  |  | | | | | | |  |  |  |  |  |
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\* The modeling assignment is not a lab report and does not follow the report guidelines.

(T) – Denotes Technique Experiment

(R) – Denotes Reaction Experiment