**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