

Point Distribution

| <u>Experiment</u> | <u>Report</u> | <u>Product</u> | <u>Unknown</u> |
|---|---------------|----------------|----------------|
| Melting-Point Analysis | 2 | | 3 |
| Recrystallization of Acetanilide | 2 | 3 | |
| Simple Distillation of α -Pinene | 2 | 3 | |
| Fractional Distillation of Cyclohexane and Toluene With and Without a Vigreux Column | 2 | | |
| Acid-Base Extraction of Benzil and Benzoic Acid | 2 | 6 | |
| Thin-Layer Chromatography (TLC) | 2 | | 3 |
| Separation of Cholesterol and a Cholesteryl Ester by Column Chromatography | 2 | 6 | |
| Acid-Catalyzed Dehydration of 2-Methylcyclohexanol | 2 | 3 | |
| Stereoselective Reduction of 4- <i>tert</i> -Butylcyclohexanone | 2 | 3 | |
| Nuclear Magnetic Resonance (NMR) Spectroscopy | 8 | | 2 |

| <u>Category</u> | <u>Maximum Points</u> |
|---|-----------------------|
| Laboratory Notebook: Pre-Lab Preparation | 9 |
| Laboratory Notebook: In-Lab Observations | 9 |
| Laboratory Notebook: Post-Lab Conclusions | 9 |
| Pre-Lab Preparation for NMR Experiment | 3 |
| Laboratory Technique | 10 |
| Reports | 26 |
| Products | 24 |
| Unknowns | 8 |
| <u>Quizzes</u> | <u>42</u> |
| Total | 140 |

Note: A number of experiments require a product to be physically submitted. If a schedule modification necessitates any of these experiments to be run exclusively online, no product(s) will be submitted for that experiment, and the maximum point total for the course will be reduced accordingly.