

## Chem V21L, Intro. to Organic and Biochemistry Lab -- Fall 2014

**Mondays & Wednesdays, 12:30-3:20pm in SCI-218**

*Tentative schedule -- subject to change*

| Week        | Day | Experiment                         | Due   |
|-------------|-----|------------------------------------|---|
| 1 (18-Aug)  | M   | <b>Check-in</b> , Lab Safety       |   |
|             | W   | 1 Molecular Geometry               | Pre-Lab Exp. 1  |
| 2 (25-Aug)  | M   | 2 Molecular Models: Carbon         | <b>Quiz #1</b> , Pre-Lab Exp. 2, Post-Lab Exp. 1            |
|             | W   | 4 Paper Chromatography             | <b>Quiz #2</b> , Pre-Lab Exp. 4, Post-Lab Exp. 2            |
| 3 (1-Sep)   | M   | <b>NO CLASS</b>                    | <b>Labor Day Holiday</b>                                    |
|             | W   | * Distillation                     | <b>Quiz #3</b> , Pre-Lab Distillation, Post-Lab Exp. 4      |
| 4 (8-Sep)   | M   | (cont.)                            |   |
|             | W   | 9, 10 Acids & Bases, Titration     | <b>Quiz #4</b> , Pre-Lab Exp. 9 & 10, Post-Lab Distillation |
| 5 (15-Sep)  | M   | (cont.)                            |   |
|             | W   | 5 Reactivity of Hydrocarbons       | <b>Quiz #5</b> , Pre-Lab Exp. 5, Post-Lab Exp. 9 & 10       |
| 6 (22-Sep)  | M   | <b>PRESENTATIONS--Group 1</b>      |   |
|             | W   | * Isolation of Caffeine            | <b>Quiz #6</b> , Pre-Lab Caffeine, Post-Lab Exp. 5          |
| 7 (29-Sep)  | M   | (cont.)                            |   |
|             | W   | 6 Alcohols and Phenols             | <b>Quiz #7</b> , Pre-Lab Exp. 6, Post-Lab Caffeine          |
| 8 (6-Oct)   | M   | * Aldehydes and Ketones            | <b>Quiz #8</b> , Pre-Lab Aldehydes, Post-Lab Exp. 6         |
|             | W   | 7 Carboxylic Acids and Esters      | <b>Quiz #9</b> , Pre-Lab Exp. 7, Post-Lab Aldehydes         |
| 9 (13-Oct)  | M   | 8 Amines and Amides                | <b>Quiz #10</b> , Pre-Lab Exp. 8, Post-Lab Exp. 7           |
|             | W   | (cont.)                            |   |
| 10 (20-Oct) | M   | 11 Preparation of Aspirin          | <b>Quiz #11</b> , Pre-Lab Exp. 11, Post-Lab Exp. 8          |
|             | W   | (cont.)                            |   |
| 11 (27-Oct) | M   | <b>PRESENTATIONS--Group 2</b>      |   |
|             | W   | 13 Carbohydrates                   | <b>Quiz #12</b> , Pre-Lab Exp. 13, Post-Lab Exp. 11         |
| 12 (3-Nov)  | M   | 12 Saponification and Soaps        | <b>Quiz #13</b> , Pre-Lab Exp. 12, Post-Lab Exp. 13         |
|             | W   | 16 Aspartame                       | <b>Quiz #14</b> , Pre-Lab Exp. 16, Post-Lab Exp. 12         |
| 13 (10-Nov) | M   | <b>NO CLASS</b>                    | <b>Veterans' Day Holiday</b>                                |
|             | W   | 15 Amino Acids and Proteins        | <b>Quiz #15</b> , Pre-Lab Exp. 15, Post-Lab Exp. 16         |
| 14 (17-Nov) | M   | 17 Analysis of Milk                | <b>Quiz #16</b> , Pre-Lab Exp. 17, Post-Lab Exp. 15         |
|             | W   | (cont.)                            |   |
| 15 (24-Nov) | M   | 18 Enzymes                         | <b>Quiz #17</b> , Pre-Lab Exp. 18, Post-Lab Exp. 17         |
|             | W   | (cont.)                            |   |
| 16 (1-Dec)  | M   | 14 DNA Capture                     | <b>Quiz #18</b> , Pre-Lab Exp. 14, Post-Lab Exp. 18         |
|             | W   | * Preparation of a Hand Cream      | <b>Quiz #19</b> , Pre-Lab Cream, Post-Lab Exp. 14           |
| 17 (8-Dec)  | M   | <b>PRESENTATIONS--Group 3</b>      |   |
|             | W   | <b>Final Papers due, Check-Out</b> |   |

*\* indicates experiment is a hand-out*

### Important Dates to Remember:

|            |                                   |
|------------|-----------------------------------|
| Aug. 29    | Last day to drop with full refund |
| Sep. 5     | Last day to drop without a "W"    |
| Nov. 21    | Last day to drop with a "W"       |
| Dec. 11-17 | Final Exams                       |