

**SPRING 2021 SEMESTER**  
**Chem 2229 Laboratory Assignments**

| Week | Experiment  | MTOL<br>(pgs)            | Solomons<br>12th ed (pgs) | <u>Pre-Lab Due</u><br>(on Canvas) | <u>Lab Writeup Due</u><br>(on Canvas) |
|------|---|--------------------------|---------------------------|-----------------------------------|---------------------------------------|
| 1/18 | Intro/Check-in  | Chapts 1-3               | ---                       | Safety                            | ---                                   |
| 1/25 | Oxidation<br>of 9-Fluorenone                          | 110-116, 125-127         | 544-546                   | Oxidation                         | ---                                   |
| 2/1  | Grignard Reaction                                     | 29-30                    | 548-559                   | Grignard                          | Oxidation                             |
| 2/8  | continue  | 110-116, 125-128         | ---                       | ---                               | ---                                   |
| 2/15 | Diels-Alder   | 25-27                    | 599-606                   | Diels-Alder                       | Grignard                              |
| 2/22 | Aldol/CLC   | 110-116                  | 856-860                   | Aldol                             | Diels-Alder                           |
| 3/1  | IR/NMR review<br>( <i>Live Zoom During Lab Time</i> ) | 146-178, 179-217         | 86-97, 391-414            | ---                               | ---                                   |
| 3/8  | <b>Mid-Term Exam*</b>                                 | <b>No lab</b> (St. Pats) |                           |                                   |                                       |

**Common Mid-Term Exam, Tuesday, March 9, 7:00-9:00 pm, online on Canvas**

|      |                              |               |     |              |                       |
|------|------------------------------|---------------|-----|--------------|-----------------------|
| 3/15 | Synthesis Project            | ---           | --- | prelab pt. 1 | Aldol /CLC assignment |
| 3/22 | <b>Spring Break - No Lab</b> | ---           | --- | ---          | ---                   |
| 3/29 | Synthesis Project            | ---           | --- | ---          | ---                   |
| 4/5  | Synthesis Project            | ---           | --- | prelab pt. 2 | project pt. 1         |
| 4/12 | Synthesis Project            | ---           | --- | ---          | IR/NMR hwk            |
| 4/19 | Synthesis Project            | ---           | --- | prelab pt.3  | project pt. 2         |
| 4/26 | Synthesis Project            | ---           | --- | ---          | ---                   |
| 5/3  | <b>Final Exam*</b>           | Lab Check-out | --- | ---          | project pt. 3         |

**Common Final Exam, Tuesday, May 4, 7:00-9:00 pm, online on Canvas**

\***Solomons (12th ed)**-find the topic in your organic class text.

\***MTOL**=Microscale Techniques in the Organic Laboratory (book)

\***OCLT**=Organic Chemistry Laboratory Techniques (pdf online book)

Failure to check out will result in a \$25.00 charge. You must check out even if you drop the course.