This course syllabus outlines the agreement between instructor and student for the duration of the semester. The schedule is subject to change (i.e. due to inclement weather or unforeseen circumstances), but the course policies are NOT.

Weekly Laboratory Assignments: Handouts printed from the Chemistry 235 D2L Course Website one week prior to lab. These will include short lab questions to be handed in the following week.

Scientific calculator capable of exponential notation, square roots, and logarithmic functions
Carbonless lab notebook with TOP PAGE PERFORATED. Found on Amazon:
- ISBN: 978-0988354913 $16
- ISBN: 978-1930882461 $20.48
Combination lock for lab drawer. Key locks will not be accepted.

Computer Access Is Required

Molecular Model Kit for Organic Chemistry
ASIN: B015JJ6CWG
https://tinyurl.com/y2euy6jh Should be ~$19. Do NOT spend more than $25 on a model kit!

One (1) set of Safety Goggles or Glasses - Over-The-Glass (OTG) means over prescription glasses. Examples from Google searches for safety glasses and goggles or OTG safety glasses:
- https://tinyurl.com/y5jt3mut
- https://tinyurl.com/y4yhbe8z
- https://tinyurl.com/yycq9qcj

Lab Section A: Th 2:10-5:00 pm Caputo 331
Lab Section B: F 1-3:50 pm Caputo 331
COURSE STRUCTURE

1. PRE-LAB PREPARATION (13 @ 5 Pts each = 65 Pts): You must attend dry labs prepared to do wet lab work. That means long pants, closed toe shoes, and long hair tied back. You may be turned away from lab and receive a zero if you are not prepared. You must have pre-lab questions for each lab completed BEFORE lab IN the lab notebook. Dry labs may be completed on loose-leaf paper.

2. LAB WORK (13 @ 5 Pts each = 65 Pts): You must complete labs in a timely, responsible manner. You must observe proper Personal Protection Equipment guidelines (PPE). Please see Lab Rules for PPE guidelines.

3. POST-LAB ASSIGNMENTS (13 @ 10 Pts each = 130 Pts): Post-lab assignments must be completed in the lab notebook. You must write the post-lab question and then answer in complete sentences.

### CHEM 235 LAB GRADING

<table>
<thead>
<tr>
<th>Week</th>
<th>EXPERIMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Check-in // Lab 1 – Covalent structures and line bond structures Dry Lab</td>
</tr>
<tr>
<td>2</td>
<td>Lab 2 - Functional Groups/Nomenclature and IR Dry Lab</td>
</tr>
<tr>
<td>3</td>
<td>Lab 3 – Newman Projections and Chairs Dry Lab</td>
</tr>
<tr>
<td>4</td>
<td>Lab 4 – Acids and Bases Dry Lab</td>
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<td>5</td>
<td>Lab 5 – Mechanism Dry Lab</td>
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<td>6</td>
<td>Lab 6 – Chirality Dry Lab</td>
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<tr>
<td>7</td>
<td>Lab 7 – SN2 Wet Lab</td>
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<td>8</td>
<td>Lab 8 – E1 Wet Lab</td>
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<tr>
<td>9</td>
<td>Lab 9 - Analgesics &amp; Thin Layer Chromatography (TLC) Wet Lab</td>
</tr>
<tr>
<td>10</td>
<td>Lab 10 - Oxidation of Benzaldehyde Wet Lab</td>
</tr>
<tr>
<td>11</td>
<td>Lab 11 - Vanillin Reductive Amination Wet Lab</td>
</tr>
<tr>
<td>12</td>
<td>Thanksgiving Recess – NOTE: No Lab this Week</td>
</tr>
<tr>
<td>13</td>
<td>Lab 12 – Synthesis of Aspirin: Fischer Esterification Wet Lab</td>
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<tr>
<td>14</td>
<td>Lab 13 – Synthesis Dry Lab</td>
</tr>
<tr>
<td>15</td>
<td>Check-Out</td>
</tr>
</tbody>
</table>

*Note: order of experiments subject to change.
COURSE EXPECTATIONS

Be prepared for lab – know what you are doing that day!
Respect your lab partners by doing your share of the work!
Obey lab safety rules!
Be aware of where to throw waste out – not everything can go down the sink!
Pay attention to what you are doing!!!

ACADEMIC DISHONESTY

If you break the academic honesty policy of Millersville University, there are severe penalties. A failing grade will be assigned and you may be prosecuted by an Academic Review board.

DISTRACTIONS

Lab is NOT game time on your phone--keep your phone in your bag!

COURSE POLICIES

ACADEMIC ACCOMMODATIONS

Please see the Office of Learning Services in Lyle Hall (http://www.millersville.edu/learningservices/) as soon as possible if you have special learning needs for this class.

SAFE AND PRODUCTIVE ENVIRONMENT

Millersville University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University’s Title IX Coordinator. The only exceptions to the faculty member’s reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project.

QUESTIONS????

OFFICE HOURS:
M 11-12 pm; T 2-4 pm; W 2-4 pm