1. **Course:** CHEMISTRY 425, Industrial Chemistry

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<tr>
<td>L01</td>
<td>TuTh</td>
<td>14:00-15:15</td>
<td>ST 130</td>
<td>Dr. G. Shimizu</td>
<td>SB 403</td>
<td><a href="mailto:gshimizu@ucalgary.ca">gshimizu@ucalgary.ca</a></td>
<td>W 12-1pm</td>
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To avoid IT problems, it is recommended that the students use their U of C account for all course correspondence. Please use “CHEM 425 inquiry” as the Subject of your e-mail.

Desire 2 Learn (D2L): CHEM 425 L01 - (Spring 2018) - Industrial Chemistry

Departmental Office: Room SA 229, Tel: (403) 220-5341, e-mail: uginfo@chem.ucalgary.ca

2. **Course Description: Lectures:** A cross section of industrially relevant chemicals and processes will be presented. These will be discussed from the perspective of precursors (availability, cost), their products and uses, efficiency (catalysis, scalability) and sustainability (environmental impact, geopolitical factors).

3. **Recommended Textbook:** There is no required text for this course.

4. **Topics Covered:**

   Chemical Industry  
   Transport of Chemicals  
   Green Chemistry  
   Chemicals from Petroleum  
   Products from Ethylene  
   Products from Propylene  
   Products from C4  
   Products from C5  
   Products from benzene  
   Products from alkanes  
   Products from methanes/alkanes  
   Products from Coal  
   Polymers, synthesis, characterization and use  
   Catalysis, homogeneous/heterogeneous, common mechanisms  
   Chemical Separations and Energy  
   Process Chemistry  
   Intellectual Property

Department Approval ______ Electronically Approved ___________________________ Date ______ January 6, 2020 ______