The University of British Columbia  
Faculty of Applied Science  
Department of Mechanical Engineering

MECH 392 – “Manufacturing Processes”  
2 Credits / [2-0-0]

OBJECTIVES: This course covers the introduction of a wide variety of industrial processes that transform materials into discrete parts. The lectures focus on the basic principles of these processes and their relative advantages and limitations. Students will develop a solid understanding on the fundamentals of discrete part manufacturing through lectures, assignments, and a term project.

PREREQUISITE: Successful completion of the Mech 2 program.

TOPICS:
1. Introduction to Manufacturing
2. Metal Casting
3. Molding of Plastics
4. Powder Metallurgy
5. Metal Forming
6. Sheet Metalworking
7. Metal Cutting Basics

LECTURES: 2 lecture hours per week: Mondays, 2:00-3:00 pm, Swing 222; Wednesdays, 2:00-3:00 pm, MacLeod 228


EVALUATION: The course grade will be determined according to the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Term Project</td>
<td>15%</td>
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<tr>
<td>Quiz (closed book)</td>
<td>15%</td>
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<tr>
<td>Final Examination (closed book)</td>
<td>60%</td>
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NOTE: The items listed above are subject to adjustments and changes as needed.