Manufacturing Engineering

Department Information

- **Department Web Site:**
  www.ndsu.edu/ime/ (http://www.ndsu.edu/ime/)

- **Credential Offered:**
  B.S.Mfg.E.; Minor

- **Sample Program Guide:**
  catalog.ndsu.edu/programs-study/undergraduate/manufacturing-engineering/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/manufacturing-engineering/#planofstudytext)

Minor Requirements

**Minor: Manufacturing Engineering**

Required Credits: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IME 330</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>IME 380</td>
<td>CAD/CAM for Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>IME 430</td>
<td>Process Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IME 431</td>
<td>Production Engineering</td>
<td>3</td>
</tr>
</tbody>
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**Electives: Select 6 credits from the following:**

- IME 335: Welding Technology
- IME 427: Packaging for Electronics
- IME 432: Composite Materials Manufacturing
- IME 433: Additive Manufacturing
- IME 435: Plastics and Polymer Processing in Manufacturing
- IME 437: Methods for Precision Manufacturing
- IME 461: Quality Assurance and Control
- IME 465: Introduction to Machine Learning
- IME 482: Automated Manufacturing Systems

**Total Credits**

18

Minor Requirements and Notes

- A minimum of 9 credits must be taken at NDSU.
- Only students majoring in an engineering discipline or with department permission agricultural or physical science majors may elect a minor in Manufacturing Engineering.