Manufacturing Engineering

Department Information

- **Department Location:** Civil & Industrial Engineering
- **Department Phone:** 701-231-9818
- **Department Web Site:** [www.ndsu.edu/ime/](http://www.ndsu.edu/ime/)
- **Credential Offered:** B.S.Mfg.E.
- **Plan Of Study Sample:** [bulletin.ndsu.edu/programs-study/undergraduate/manufacturing-engineering/#planofstudytext](http://bulletin.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>
</table>

**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.