# Reliability Engineering

## Department Information

- **Department Phone:** 701-231-7494
- **Department Web Site:** [www.ndsu.edu/coe/](http://www.ndsu.edu/coe/)
- **Credential Offered:** Minor
- **Program Overview:** [bulletin.ndsu.edu/programs-study/undergraduate/reliability-engineering/](http://bulletin.ndsu.edu/programs-study/undergraduate/reliability-engineering/)

## Minor Requirements

### Minor: Reliability Engineering

**Required Credits:** 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IME 460</td>
<td>Evaluation of Engineering Data</td>
<td>3</td>
</tr>
<tr>
<td>IME 463</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IME 464</td>
<td>Reliability Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Credits:** Select 9 credits from the following:

- IME 450  Systems Engineering and Management
- IME 461  Quality Assurance and Control
- IME 465  Introduction to Machine Learning
- ME 332   Engineering Materials II
- ME 442   Machine Design I
- ME 472   Fatigue and Fracture of Metals
- ECE 341  Random Processes
- ECE 427  Packaging for Electronics
- or IME 427 Packaging for Electronics
- ECE 443  Communications I
- ECE 444  Applied Digital Signal Processing
- STAT 330 Introductory Statistics
- STAT 461 Applied Regression Models
- STAT 462 Introduction to Experimental Design

**Total Credits:** 18

**MINOR NOTE:**

- This minor is only available to students pursuing an engineering major.
- 12 of the 18 credits for this minor must be unique and cannot count toward requirements in the student’s engineering major.