ENGINEERING DESIGN, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Requirements for the Minor</td>
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Requirements for the Minor

A minimum of 18 credits is required for completion of the minor with no fewer than 9 credits at the 400-level or above.

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (https://senate.psu.edu/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/#59-10). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDSGN 100</td>
<td>Cornerstone Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>EDSGN 367</td>
<td>Design Thinking and Making</td>
<td>3</td>
</tr>
<tr>
<td>EDSGN 467</td>
<td>Prototyping to Launch</td>
<td>3</td>
</tr>
<tr>
<td>EDSGN 485</td>
<td>Engineering Design Portfolio</td>
<td>1</td>
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</tbody>
</table>

Additional Courses

Additional Courses: Require a grade of C or better

Select 6-8 credits from the following courses:

- EDSGN 270  Summers by Design: An International Engineering Design Experience
- EDSGN 452  Projects in Humanitarian Engineering
- EDSGN 453  Design for Developing Communities
- EDSGN 462  Introduction to Design for Additive Manufacturing
- EDSGN 468  Engineering Design and Analysis with CAD
- EDSGN 494  Research Project
- EDSGN 496  Independent Studies
- ENGR/WFED 405  Project Management for Professionals
- ENGR 310  Entrepreneurial Leadership
- ENGR 407  Technology-Based Entrepreneurship
- ENGR 408  Leadership Principles
- ENGR 409  Leadership in Organizations
- ENGR 422  Leadership of International Virtual Engineering Teams

Supporting Courses and Related Areas

Supporting Courses and Related Areas: Require a grade of C or better

None specified. In consultation with the minor director, students may receive up to 2 course credits for an approved course in support of their engineering design minor.