COMPUTER ENGINEERING, MINOR (BEHREND)

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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</thead>
<tbody>
<tr>
<td>Requirements for the Minor</td>
<td>24</td>
</tr>
</tbody>
</table>

Requirements for the Minor

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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</thead>
<tbody>
<tr>
<td>EE 210</td>
<td>Circuits and Devices</td>
<td>4</td>
</tr>
<tr>
<td>EE 310</td>
<td>Electronic Circuit Design I</td>
<td>4</td>
</tr>
<tr>
<td>EE 316</td>
<td>Introduction to Embedded Microcontrollers</td>
<td>3</td>
</tr>
</tbody>
</table>

Prescribed Courses: Require a grade of C or better

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CMPEN 271</td>
<td>Introduction to Digital Systems</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CMPEN 275 &amp; Digital Design Laboratory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMPSC 201</td>
<td>Programming for Engineers with C++</td>
<td>3</td>
</tr>
<tr>
<td>or CMPSC 202</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Select two of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CMPEN 352W</td>
<td>Embedded Systems Design</td>
</tr>
<tr>
<td>CMPEN 411</td>
<td>VLSI Digital Circuits</td>
</tr>
<tr>
<td>CMPEN 431</td>
<td>Introduction to Computer Architecture</td>
</tr>
<tr>
<td>CMPEN 441</td>
<td>Operating Systems</td>
</tr>
<tr>
<td>CMPEN 461</td>
<td>Communication Networks</td>
</tr>
<tr>
<td>CMPSC 450</td>
<td>Concurrent Scientific Programming</td>
</tr>
<tr>
<td>SWENG 411</td>
<td>Software Engineering</td>
</tr>
</tbody>
</table>