PRE-ENGINEERING (FOR UNL)

Offered by Department of Physics and Physical Science (http://catalog.unk.edu/undergraduate/departments-programs/physics-astronomy)

UNK's Pre-Engineering program is broadly designed to meet the College of Engineering requirements at UNL. Because requirements for specific engineering programs at UNL and other universities may vary, students should always consult with their advisors before registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>First Year</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 160 &amp; 160L</td>
<td>General Chemistry and General Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 161 &amp; 161L</td>
<td>General Chemistry and General Chemistry Laboratory</td>
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<tr>
<td>CSIT 112</td>
<td>Programming in C</td>
<td>3</td>
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<tr>
<td>ENG 101</td>
<td>Introduction of Academic Writing</td>
<td>3</td>
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<tr>
<td>ENG 102</td>
<td>Academic Writing and Research</td>
<td>3</td>
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<tr>
<td>MATH 102</td>
<td>College Algebra</td>
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<tr>
<td>MATH 103</td>
<td>Plane Trigonometry</td>
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</tr>
<tr>
<td>MATH 115</td>
<td>Calculus I with Analytic Geometry</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Social Sciences and Humanities)</td>
<td></td>
<td>0-9</td>
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<tr>
<td></td>
<td><strong>Second Year</strong></td>
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<tr>
<td>PHYS 213 &amp; 213L</td>
<td>Electrical Circuits I and Introductory Electrical Laboratory</td>
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<tr>
<td>PHYS 275 &amp; 275L</td>
<td>General Physics I (Calculus) and General Physics I (Calculus) Laboratory</td>
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<tr>
<td>PHYS 276 &amp; 276L</td>
<td>General Physics II (Calculus) and General Physics II (Calculus) Laboratory</td>
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<tr>
<td>MATH 202</td>
<td>Calculus II with Analytic Geometry</td>
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<tr>
<td>ENGR 223</td>
<td>Engineering Statics</td>
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<td>MATH 260</td>
<td>Calculus III</td>
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<td>MATH 305</td>
<td>Differential Equations</td>
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<td>STAT 441</td>
<td>Probability and Statistics</td>
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<tr>
<td>Electives (Social Sciences and Humanities)</td>
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<td>0-9</td>
</tr>
<tr>
<td>Total Credit Hours</td>
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<td>61-79</td>
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</table>

Pre-Engineering students can transfer up to 18 credit hours of social sciences and humanities. Students should check with advisors for more detailed information on approved Electives.

1 Only required for some fields of engineering.
2 ENG 101 and ENG 102 can be replaced by technical writing at UNL.
3 Students with sufficient preparation may enter the mathematics program at a higher level reducing total credit hours needed to complete the pre-professional program.
4 Except courses numbered 188 or 388.