SYSTEMS ENGINEERING AND DESIGN, ASSOCIATE IN ENGINEERING SCIENCE

College(s): DA, HW, TR, WR
Program Code: 0100

Pathway
All plans can be modified to fit the needs of part-time students by adding more semesters.

Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td></td>
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</tr>
<tr>
<td>ENGLISH 101</td>
<td>Composition $^1$</td>
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<tr>
<td>MATH 207</td>
<td>Calculus &amp; Analytic Geometry I $^1$</td>
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<tr>
<td>CHEM 201</td>
<td>General Chemistry I $^1$</td>
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<tr>
<td>Social and Behavioral Sciences course $^{1,2}$</td>
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<td></td>
<td>Hours</td>
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<td><strong>Semester 2</strong></td>
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<tr>
<td>ENGLISH 102</td>
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<tr>
<td>MATH 208</td>
<td>Calculus &amp; Analytic Geometry II</td>
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<tr>
<td>PHYSICS 235</td>
<td>Engineering Physics I: Mechanics &amp; Wave Motion</td>
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<tr>
<td>CHEM 203</td>
<td>General Chemistry II $^3$</td>
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<td></td>
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<td><strong>Semester 3</strong></td>
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<td>MATH 209</td>
<td>Calculus &amp; Analytic Geometry III</td>
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<td>PHYSICS 236</td>
<td>Engineering Physics II: Electricity &amp; Magnetism</td>
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<tr>
<td>ENGR 190</td>
<td>Computer Programming for Engineers</td>
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<tr>
<td>or CIS 142</td>
<td>C++ Object Oriented Programming I</td>
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<tr>
<td>PHYSICS 215</td>
<td>Statics $^3$</td>
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<td></td>
<td>Hours</td>
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<td><strong>Semester 4</strong></td>
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<tr>
<td>MATH 210</td>
<td>Differential Equations</td>
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<tr>
<td>Fine Arts or Humanities course $^{1,2}$</td>
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<tr>
<td>PHYSICS 216</td>
<td>Dynamics $^3$</td>
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Pathway Electives

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>CHEM 203</td>
<td>General Chemistry II</td>
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<tr>
<td>ENGR 111</td>
<td>Intro To The Engineering Profession</td>
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<tr>
<td>PHYSICS 215</td>
<td>Statics</td>
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<tr>
<td>PHYSICS 216</td>
<td>Dynamics</td>
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<tr>
<td>PHYSICS 217</td>
<td>Mechanics Of Materials</td>
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<td>PHYSICS 237</td>
<td>Engineering Physics III: Heat light and Modern Physics</td>
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</table>

1. General Education course
2. One course must satisfy the Human Diversity (HD) requirement
3. Pathway Elective (p. 1)