# Bachelor of Science, Major in Physics, Mechanical Engineering 2+2

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Bachelor of Science, Major in Physics, Mechanical Engineering 2+2</td>
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</tr>
<tr>
<td><strong>Core Curriculum</strong></td>
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<tr>
<td>Component Area I (Communication)</td>
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<tr>
<td>Component Area II (Mathematics)</td>
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<tr>
<td>Component Area III (Life and Physical Science)</td>
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<tr>
<td>Component Area IV (Language, Philosophy, and Culture)</td>
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<td>Component Area V (Creative Arts)</td>
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<td>Component Area VI (U.S. History)</td>
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<tr>
<td>Component Area VII (Political Science/Government)</td>
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<td>Component Area VIII (Social and Behavioral Sciences)</td>
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<td>Component Area IX (Component Area Option)</td>
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<td><strong>Degree Specific Requirements</strong></td>
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<tr>
<td>CHEM 1411</td>
<td>General Chemistry I</td>
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<tr>
<td>CHEM 1412</td>
<td>General Chemistry II</td>
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<tr>
<td>MATH 1420</td>
<td>Calculus I</td>
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<tr>
<td>MATH 1430</td>
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<tr>
<td>PHYS 1401</td>
<td>Physics Boot Camp</td>
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<tr>
<td>PHYS 1411</td>
<td>Introduction To Physics I</td>
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<td>PHYS 1422</td>
<td>Introduction To Physics II</td>
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<td><strong>Major: Foundation</strong></td>
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<td>MATH 3376</td>
<td>Differential Equations</td>
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<td>PHYS 3115</td>
<td>Electronic &amp; Circuit Anlys Lab</td>
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<td>PHYS 3360</td>
<td>Statics And Dynamics</td>
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<td>PHYS 3395</td>
<td>Electronics &amp; Circuit Analysis</td>
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<td><strong>Major: Concentration</strong></td>
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<tr>
<td>COSC 1436</td>
<td>Programming Fundamentals I</td>
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<td>ETDD 1361</td>
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<td>MATH 2440</td>
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<td><strong>Total Hours</strong></td>
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1. MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour for Component Area IX (Component Area IX) as well as the major.

2. Satisfies the Core Curriculum requirement for Component Area III (Life and Physical Science) as well as the major.

**Note:**
This degree plan is intended for students who will be completing degree work in Mechanical Engineering at the University of Texas at Tyler (UT-Tyler). Students complete 81 semester credit hours at Sam Houston State University and transfer to UT-Tyler to complete the remaining requirements for award of a degree in Mechanical Engineering from UT-Tyler.