**LOWER LEVEL COURSES**

<table>
<thead>
<tr>
<th>Cr. Hrs.</th>
<th>Gen.Ed**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COPXXXX</strong></td>
<td>Intro Programming in C, C++, JAVA or equivalent Language</td>
</tr>
<tr>
<td><strong>MAPX302</strong></td>
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<tr>
<td><strong>MACX311</strong></td>
<td>4</td>
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<tr>
<td><strong>MACX281</strong></td>
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<tr>
<td><strong>MACX312</strong></td>
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<td><strong>MACX282</strong></td>
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<td><strong>MACX313</strong></td>
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<tr>
<td><strong>MACX283</strong></td>
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<tr>
<td><strong>CHMX45C</strong></td>
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<tr>
<td>Take both courses:</td>
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<tr>
<td><strong>CHMX045/X045L</strong></td>
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<tr>
<td><strong>CHMX0440</strong></td>
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