## Course Competency Report

### by Code

<table>
<thead>
<tr>
<th>Code: GDT1</th>
</tr>
</thead>
</table>

### College Geometry Applications (GDT1)

<table>
<thead>
<tr>
<th>Course of Study:</th>
<th>GDC1/2,GDT1/2 - College Geometry and College Geometry Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Level:</td>
<td>Undergraduate</td>
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<tr>
<td>Course Division:</td>
<td>Upper Division Major</td>
</tr>
<tr>
<td>Discipline:</td>
<td>Mathematics</td>
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<tr>
<td>Course Type:</td>
<td>Mathematics</td>
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<tr>
<td>Department:</td>
<td>Mathematics</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPETENCY #</th>
<th>COMPETENCY NAME</th>
<th>COMPETENCY TEXT</th>
</tr>
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<tbody>
<tr>
<td>209.4.2</td>
<td>Spatial Visualization &amp; Geometric Modeling</td>
<td>The graduate uses spatial visualization and geometric modeling to explore and analyze geometric shapes and structures, and their properties.</td>
</tr>
<tr>
<td>209.4.3</td>
<td>Geometric Axioms, Theorems, &amp; Proofs</td>
<td>The graduate demonstrates a firm grasp of the axiomatic nature of geometry and proves geometric theorems.</td>
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<tr>
<td>209.4.4</td>
<td>Synthetic, Analytic, &amp; Transformational Geometry</td>
<td>The graduate applies synthetic, analytic, and transformational geometry techniques to solve geometric problems.</td>
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<tr>
<td>209.4.5</td>
<td>Measurement Techniques, Concepts, &amp; Tools</td>
<td>The graduate uses appropriate measurement techniques to determine quantities and applies measurement concepts and tools to solve problems.</td>
</tr>
<tr>
<td>209.4.6</td>
<td>Non-Euclidean Geometry</td>
<td>The graduate demonstrates knowledge of core concepts and principles of non-Euclidean geometries in two and three dimensions from both formal and informal perspectives.</td>
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</tbody>
</table>