### Course Competency Report

**Code: DPT1**

**Physics: Electricity and Magnetism (DPT1)**

<table>
<thead>
<tr>
<th>Course of Study:</th>
<th>DPT1 - Physics: Electricity and Magnetism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Level:</td>
<td>Undergraduate</td>
</tr>
<tr>
<td>Course Division:</td>
<td>Lower Division Major</td>
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<tr>
<td>Discipline:</td>
<td>Physics</td>
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<tr>
<td>Course Type:</td>
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<tr>
<td>Department:</td>
<td>Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPETENCY #</th>
<th>COMPETENCY NAME</th>
<th>COMPETENCY TEXT</th>
</tr>
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<tbody>
<tr>
<td>207.3.1</td>
<td>Electric Field</td>
<td>The graduate applies concepts of electric fields and Gauss's law to solve problems.</td>
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<tr>
<td>207.3.2</td>
<td>Electric Potential and</td>
<td>The graduate applies concepts of electric potential, capacitance, and electric current to solve problems and analyze electric circuits.</td>
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<td></td>
<td>Current</td>
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<tr>
<td>207.3.3</td>
<td>Magnetism</td>
<td>The graduate applies concepts of magnetism and magnetic fields to solve problems.</td>
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<tr>
<td>207.3.4</td>
<td>Electromagnetic Induction</td>
<td>The graduate applies principles of electromagnetic induction to demonstrate generators and transformers.</td>
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<tr>
<td>207.3.5</td>
<td>Electromagnetic Waves</td>
<td>The graduate demonstrates an understanding of electromagnetic waves and the electromagnetic spectrum.</td>
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