Course Title: Applied Electrical Calculations

Catalog Description:
Perform basic math necessary for solving electrical circuits. Read word problems and decide what they are asking for. Calculate math problems. Calculate Ohm’s law formulas.

FULFILLS MN TRANSFER CURRICULUM AREA(S)
Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:

Prerequisites or Necessary Entry Skills/Knowledge:
None

Topics to be Covered
Adding, subtracting, multiplying, and dividing math problems
Ohm’s Law
Algebraic equations
<table>
<thead>
<tr>
<th><strong>Student Learning Outcomes</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Perform basic math skills</td>
<td></td>
</tr>
<tr>
<td>Substitute given values to Equations/Formulas</td>
<td></td>
</tr>
<tr>
<td>Solve circuits using Ohm’s Law</td>
<td></td>
</tr>
<tr>
<td>Calculate (multiply/divide) scientific notations of numbers</td>
<td></td>
</tr>
<tr>
<td>Solve problems using algebra</td>
<td></td>
</tr>
<tr>
<td>Decipher key indicators in and solutions to word problems</td>
<td></td>
</tr>
</tbody>
</table>

**Is this course part of a transfer pathway:** Yes ☐ No ☒

Revised 2-29-2020