### Program Learning Outcomes

**Students will be able to:**

<table>
<thead>
<tr>
<th><strong>Program</strong></th>
<th><strong>Performance Indicators</strong></th>
<th><strong>Measures</strong></th>
<th><strong>Use of the Information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Demonstrate technical expertise in key areas of Electrical and Computer Engineering</td>
<td>• Students successfully learn target concepts in EECE 6010 and 6020 required courses</td>
<td>• Weighted evaluation scores from core courses</td>
<td>• EECE 6010 and 6020 instructors collect scores, DGS assembles</td>
</tr>
<tr>
<td>Apply engineering knowledge to their careers</td>
<td>• Students advance and are successful in their careers</td>
<td>• Graduation surveys will assess satisfaction of students and of employers</td>
<td>• DGS collects and keeps stats</td>
</tr>
</tbody>
</table>

All assessment information reviewed annually with Graduate Committee.
## Marquette University
### Learning Outcomes Assessment Plan

**Program:** Electrical and Computer Engineering  
**Degree:** Master of Science Program (Thesis Option)  
**Date Submitted:** 11/4/2009

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<tr>
<th>Program Learning Outcomes</th>
<th>Performance Indicators (What would you see if the student has learned?)</th>
<th>Measures (What is the measure and where, how, and when is data collected?)</th>
<th>Use of the Information (Who collects and compiles, who reviews)</th>
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| Communicate research results to a scientific audience | • Students successfully communicate their research orally at thesis defense  
• Students successfully communicate their research in writing through their thesis document | • Oral communication rubric, completed by committee members at thesis defense  
• Written communication rubric, completed by committee members when thesis is approved.  
• Conference presentations given by students  
• Conference and journal paper publications by students | • DGS collects and keeps stats  
• Students report presentations and publications on annual activities report, DGS keeps stats |
| Perform quality research work under the guidance of a faculty mentor | • Students successfully defend their work at thesis defense | • Research strength rubric, completed by committee members at thesis defense | • DGS collects and keeps stats  
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| Demonstrate technical expertise in key areas of Electrical and Computer Engineering | • Students successfully learn target concepts in EECE 6010 and 6020 required courses  
• Students successfully pass written qualifying exam | • Weighted evaluation scores from core courses.  
• Written Qualifying Exam scores | • EECE 6010 and 6020 instructors collect scores, DGS assembles WQE committee and DGS collects and reviews WQE results |
| Communicate research results to a scientific audience | • Students successfully communicate their research work orally at the public final defense  
• Students successfully communicate their research in writing through their dissertation document | • Oral communication rubric, completed by committee members at final defense  
• Written communication rubric, completed by committee members when dissertation is approved.  
• Conference presentations given by students  
• Conference and journal paper publications by students | • DGS collects and keeps stats  
• Students report presentations and publications on annual activities report, DGS keeps stats |
| Independently perform quality original research | • Students successfully defend the originality and quality of their research at the public final defense | • Research strength rubric, completed by committee members at final defense | • DGS collects and keeps stats  
All assessment information reviewed annually with Graduate Committee. |