Marquette University
Learning Outcomes Assessment Plan

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

Program Learning Outcomes **Students will be able to:**	**Performance Indicators** **(What would you see if the student has learned?)**	**Measures** **(What is the measure and where, how, and when is data collected?)**	**Use of the Information** **(Who collects and compiles, who reviews)**
Demonstrate technical expertise in key areas of Electrical and Computer Engineering	• Students successfully learn target concepts in EECE 6010 and 6020 required courses	• Weighted evaluation scores from core courses	• EECE 6010 and 6020 instructors collect scores, DGS assembles
Apply engineering knowledge to their careers	• Students advance and are successful in their careers	• Graduation surveys will assess satisfaction of students and of employers	• DGS collects and keeps stats 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

Program Learning Outcomes **Students will be able to:**	**Performance Indicators** **(What would you see if the student has learned?)**	**Measures** **(What is the measure and where, how, and when is data collected?)**	**Use of the Information** **(Who collects and compiles, who reviews)**
Demonstrate technical expertise in key areas of Electrical and Computer Engineering	• Students successfully learn target concepts in EECE 6010 and 6020 required courses	• Weighted evaluation scores from core courses.	• EECE 6010 and 6020 instructors collect scores, DGS assembles
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 All assessment information reviewed annually with Graduate Committee.

Marquette University
Learning Outcomes Assessment Plan

Program: **Electrical and Computer Engineering**
Degree: **Ph.D.**
Date Submitted: 11/4/2009

Program Learning Outcomes **Students will be able to:**	**Performance Indicators** **(What would you see if the student has learned?)**	**Measures** **(What is the measure and where, how, and when is data collected?)**	**Use of the Information** **(Who collects and compiles, who reviews)**
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.