# Marquette University
## Learning Assessment Plan

### Mathematics, Statistics and Computer Science

**Program:** Mathematics for Secondary School Teachers (MSST)—Formerly Special Program for Secondary Teachers (SPSST)

**Degree:** M.S.

**Date Submitted:** September 30, 2010

<table>
<thead>
<tr>
<th>Program Learning Outcomes</th>
<th>Performance Indicators</th>
<th>Measures</th>
<th>Use of the Information</th>
</tr>
</thead>
</table>
| 1. Demonstrate knowledge of an area of mathematics (e.g., algebra, analysis, geometry) and a mathematics-related area that has implications for teaching (e.g., mathematics curriculum, learning theory, history of mathematics, philosophy of mathematics), and the connections between the two. | • Use definitions and terminology accurately  
• Construct logically correct arguments in mathematics and mathematics-related areas  
• Show connections between constructs in mathematics and mathematics-related areas  
• Convey information in a well-organized written form  
• Convey information in a well-organized verbal presentation. | • Master’s essay required by the graduate school prior to graduation.  
• After the essay has been submitted, oral presentation of the main points of the master’s essay to the MSCS Teacher Education Committee (TEC), the essay adviser, and other interested parties. | • TEC receives and scores copies of the master’s essays received from the students’ essay advisers.  
• TEC conducts the oral presentations and assesses students’ performances.  
• TEC reviews collected data, makes recommendations, and reports to the MSCS Executive Committee. |

| 2. Demonstrate an ability to apply the knowledge from Learning Outcome #1 to the classroom. | • Pose a set of mathematically rich problems whose purpose is to help students achieve new learning goals  
• Solve the problems  
• Identify the learning goals that students are expected to achieve by working on the problems  
• Show how the problems and their variations are tied to the knowledge exhibited in learning outcome #1 (above). | • Master’s essay required by the graduate school prior to graduation.  
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