## Marquette University
### Learning Assessment Plan

#### Mathematics, Statistics, and Computer Sciences

**Program:** Mathematics, Statistics and Computer Science  
**Degree:** MS  
**Date Submitted:** June 16, 2006

<table>
<thead>
<tr>
<th>Program Learning Outcomes Students will be able to:</th>
<th>Performance Indicators</th>
<th>Measures</th>
<th>Use of the Information</th>
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</thead>
<tbody>
<tr>
<td>1. Apply advanced concepts related to discipline coursework to solve theoretical or applied problems.</td>
<td>Uses appropriate [coursework related] theory or techniques to solve problems. Measured by A.1, A.2 Aims for economy of solution expression; does not include superfluous material in problem solutions. Measured by A.3, A.4, A.5</td>
<td>[A] Master's Comprehensive Examination: Faculty members responsible for individual comprehensive examination questions will assess performance on graduate course sequence sections of the Master's comprehensive examination using the Master's Comprehensive Examination Rubric.</td>
<td>Office staff will collect rubric data from individual faculty members and create an initial tabulation of the measures. The Graduate Committee Chair will summarize the data for graduate program review by the Graduate Committee. Combined performance indicator data means will be used for reporting purposes, with the frequency of below average scores noted for detecting individual issues of concern. Determinations will be shared with the Executive Committee. After initial formal assessment experience is gained, assessment results will likely be included in the department’s graduate program annual report.</td>
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<td>2. Integrate information from multiple sources to create original technical summaries.</td>
<td>Writes a technical summary that unifies information from multiple sources by providing a common framework; adopting a consistent abstraction, terminology, and notation. Measured by B.1, B.2, B.3</td>
<td>[B] Master's Essay or Thesis: Faculty advisor will assess the MS essay or thesis after reading the final draft using the Master's Essay / Thesis Rubric. The Graduate Committee Chair, or appointee, will also assess the work using the rubric.</td>
<td>Employs the above collection, compilation, review and dissemination guidelines</td>
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<td>3. Communicate mathematical, statistical or computing science concepts using the technical language of the discipline.</td>
<td>Uses an effective technical writing style which conforms to that of a journal publishing articles in the subject area, free of spelling and grammatical errors, with</td>
<td>Employing Measure [A] and Measure [B].</td>
<td>Employs the above collection, compilation, review and dissemination guidelines</td>
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<td>carefully drawn illustrations (where appropriate). Measured by A.6; B.4, B.5, B.6</td>
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