# Institutionalizing Assessment
## Annual Progress Report

<table>
<thead>
<tr>
<th>Check one:</th>
<th>☐ Undergraduate Program ☐ Graduate Program ☐ GenEd ☐ Support Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program: Mathematics</td>
<td>Submission Date: 05-11-2010</td>
</tr>
<tr>
<td>Reporting Cycle Year:</td>
<td>x 1st Year ☐ 2nd Year ☐ Final Year</td>
</tr>
</tbody>
</table>

**Assessment Plan** *(if previously submitted in a prior progress report, specify “previously submitted”)*

**Implementation Date (AY):** 2009-2010

Specify expected student learning outcomes:

MA PLO-3: *argue and reason* using mathematics, *read, create and write down* logically correct mathematical proofs, *use exact mathematical language* and *communicate mathematics efficiently* orally, in writing and using information technology tools.

Specify the tool(s) that will be used to measure student learning:

- Pre-test /post-test
- Direct testing
- Paper and pencil assessment
- Targeted Quiz
- Regular Test
- Embedded questions
- Selective measurement
- Exit test
- Presentation
- Exit interview or other method as appropriate.

**Status of Data Collection:**

Course identification: assessment data will come from some/several of the following courses: MA 341, MA 351, MA 361, MA 411, MA 421-422, MA 451, MA 453.

**Assessment Report:**

A report will be prepared by April 2010.

**Closing the Loop:**

Expected date of closing the loop for this assessment is AY 2011-2012.

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**NOTE:** This form is designed to assist you with the on-going assessment process and to dovetail with assessment reporting in the program review process.
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Program: Mathematics

Reporting Cycle Year: 1st Year x 2nd Year □ Final Year

Assessment Plan (if previously submitted in a prior progress report, specify “previously submitted”)
Implementation Date (AY): 2010-2011

Specify expected student learning outcomes:

MA PLO-3: argue and reason using mathematics, read, create and write down logically correct mathematical proofs, use exact mathematical language and communicate mathematics efficiently orally, in writing and using information technology tools.

Specify the tool(s) that will be used to measure student learning:

Pre-test /post-test, Direct testing, Paper and pencil assessment, Targeted Quiz, Regular Test, Embedded questions, Selective measurement, Exit test, Presentation, Exit interview or other method as appropriate.

Status of Data Collection:

Course identification: assessment data will come from some/several of the following courses: MA 341, MA 351, MA 361, MA 411, MA 421-422, MA 451, MA 453.

Assessment Report:

A report will be prepared by April 2011.

Closing the Loop:

Expected date of closing the loop for this assessment is AY 2011-2012.

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**Assessment Plan** *(if previously submitted in a prior progress report, specify “previously submitted”)*

Implementation Date (AY): 2011-2012

Specify expected student learning outcomes:

MA PLO-4: *apply abstract thinking, mathematical methods, models and current practices* in the sciences, including state-of-the-art mathematical software, to solve problems in theoretical mathematics or in a diverse area of mathematical applications.

Specify the tool(s) that will be used to measure student learning:

- Pre-test /post-test
- Direct testing
- Paper and pencil assessment
- Targeted Quiz
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- Exit test
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- Exit interview or other method as appropriate.

**Status of Data Collection:**

Course identification: assessment data will come from some/several of the following courses: MA 161a-b, MA 165, MA 341, MA 351, MA 361, MA 375, MA 451, MA 453.

**Assessment Report:**

A report will be prepared by April 2012.

**Closing the Loop:**

Expected date of closing the loop for this assessment is AY 2012-2013.

**NOTE:** This form is designed to assist you with the on-going assessment process and to dovetail with assessment reporting in the program review process.
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**Assessment Plan** *(if previously submitted in a prior progress report, specify “previously submitted”)*

**Implementation Date (AY): 2012-2013**

Specify expected student learning outcomes:

**MA PLO-5:** *show maturity in mathematical knowledge and thinking* that prepares and encourages students to pursue graduate studies in mathematics or in related fields.

Specify the tool(s) that will be used to measure student learning:

- Pre-test /post-test
- Direct testing
- Paper and pencil assessment
- Targeted Quiz
- Regular Test
- Embedded questions
- Selective measurement
- Exit test
- Presentation
- Exit interview or other method as appropriate.

**Status of Data Collection:**

Course identification: assessment data will come from some/several of the following courses: MA 302, MA 375, MA 411, MA 421-22, MA 451, MA 453.

**Assessment Report:**

A report will be prepared by April 2013.

**Closing the Loop:**

Expected date of closing the loop for this assessment is AY 2013-2014.

**NOTE:** This form is designed to assist you with the on-going assessment process and to dovetail with assessment reporting in the program review process.
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**Assessment Plan** *(if previously submitted in a prior progress report, specify “previously submitted”)*
Implementation Date (AY): 2013-2014

Specify expected student learning outcomes:

MA PLO-1: *demonstrate critical thinking, problem solving skills* and ability to use mathematical methods by *identifying, evaluating, classifying, analyzing, synthesizing* data and abstract ideas in various contexts and situations.

Specify the tool(s) that will be used to measure student learning:

Pre-test/post-test, Direct testing, Paper and pencil assessment, Targeted Quiz, Regular Test, Embedded questions, Selective measurement, Exit test, Presentation, Exit interview or other method as appropriate.

**Status of Data Collection:**

Course identification: assessment data will come from some/several of the following courses: MA 110, MA 115, MA 151, MA 161a-b, MA 165, MA 203, MA 204, MA 205, MA 301, MA 302, MA 341, MA 351, MA 361, MA 375, MA 385, MA 411, MA 421, MA 422, MA 451, MA 453.

**Assessment Report:**

A report will be prepared by April 2014.

**Closing the Loop:**

Expected date of closing the loop for this assessment is AY 2014-2015.

**NOTE:** This form is designed to assist you with the on-going assessment process and to dovetail with assessment reporting in the program review process.