# Program Assessment Plan

## American University

### Academic Program: CAS: Mathematics - MA

**Contact Person for Assessment:** Artur Elezi  
**Unit's Primary Department:** Mathematics/Statistics  
**COLA Reader -1:** Teresa Larkin  
**COLA Reader -2:** Kathy McAdams

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## Learning Outcome: Definitions/Big Theorems - Algebra

Students will be able to apply precise knowledge of definitions and big theorems from Modern Algebra.

**Outcome Year:** 2010-2011  
**Start Date:** 12/06/2010  
**Outcome Status:** Active Learning Outcome

**Assessment Plan**

<table>
<thead>
<tr>
<th>Assessment Measure</th>
<th>Target</th>
<th>Schedule/Cycle</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Measure: Relevant questions from comprehensive exams will be rated on a scale: proficient-satisfactory-needs more work.</td>
<td>We expect all of them to be rated satisfactory or better.</td>
<td>The data will be collected each May and reviewed by members of the mathematics faculty. A report will be issued on the progress at the beginning of the following Fall.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Indirect Measure:** Focus group meeting with students by faculty members who did not have the students in those classes. This measure will no longer be pursued.

**Measure Type:** Focus Group

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## Learning Outcome: Definitions/Big Theorems - Analysis

Students will be able to apply the precise knowledge of definitions and big theorems from Analysis.

**Outcome Year:** 2010-2011  
**Start Date:** 12/06/2010  
**Outcome Status:** Active Learning Outcome

**Assessment Plan**

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<td>Direct Measure: Relevant questions from comprehensive exams will be rated on a scale: proficient-satisfactory-needs more work.</td>
<td>We expect all of them to be rated satisfactory or better.</td>
<td>The data will be collected in May and reviewed by members of the mathematics faculty. A report will be issued on the progress at the beginning of the following Fall.</td>
<td>Yes</td>
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**Indirect Measure:** Focus group meeting with students by faculty members who did not have the students in those classes. This measure will no longer be pursued.

**Measure Type:** Focus Group

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## Learning Outcome: Presentations

Students will demonstrate ability to understand, organize, develop and present advanced mathematics in a clear, logical and purposeful way.

**Outcome Year:** 2011-2012
### Assessment Plan

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<th>Schedule/Cycle</th>
<th>Active</th>
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<td>Direct measure: Master's Presentations will be rated by a committee of faculty members in many categories such as Purpose and Topic, Content, Presentation, Overall on a scale: exemplary-proficient-satisfactory-needs more work.</td>
<td>We expect all of our MA students to get an overall rating of Proficient or better.</td>
<td>Given that we graduate 2-3 students every year, we will use data from the next two years so as to have a sufficient information to draw some conclusions and determine a course of action. Analysis of this data will take place in summer 2013 and will be reported in Fall 2013.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Measure Type:** Presentation