Saint Louis University Program Assessment Plan

Program (Major, Minor, Core): Master of Arts in Mathematics Department: Department of Mathematics and Computer Science College/School: Arts and Sciences Person(s) Responsible for Implementing the Plan: Graduate faculty of the Department of Mathematics and Computer Science Date Submitted: December 7, 2015

Program Learning Outcomes	Curriculum Mapping	Assessment Methods	Use of Assessment Data
What do you expect all students who complete the program to know, or be able to do?	Where is the outcome learned/assessed (courses, internships, student teaching, clinical, etc.)?	How do students demonstrate their performance of the program learning outcomes? How does the program measure student performance? Distinguish your direct measures from indirect measures.	

Demonstrate ability to apply methods of direct and indirect proof to solve problems at the master's level.	MATH 4110-5102/5105, MATH 4210- 5202/5203, as well as the three main sequences: MATH 5110-5120, MATH 5210-5220/5230/5240, MATH 5310- 5320.	Homework, Test and Exam item analysis.	Data shared with subsequent AY instructors in the relevant courses. Improvement measures result from discussion between current AY instructor and subsequent AY instructor.
Demonstrate ability to effectively communicate mathematics in both a written and oral setting.	MATH 4110-5102/5105, MATH 4210- 5202/5203, as well as the three main sequences: MATH 5110-5120, MATH 5210-5220/5230/5240, MATH 5310- 5320. Optional master's thesis, required master's oral exam.	analysis. Oral exam analysis of student presentation and responses	Data shared and discussed as above. Master's oral exam data shared with oral exam committee members each Spring.

MATH	5110-5120,	MATH	5210-
1417 7 1 1 1	5110 5120,	1417 7 1 1 1	5210

Demonstrate master's-level depth of understanding of mathematics at the foundation of contemporary applications.

5220/5230/5240, MATH 5310-5320.. Optional master's thesis, required oral exam. Homework, Test and Exam item analysis. Oral exam analysis of student presentation and responses ET Q 7.2(T 242.04 202.56 164.04 7.8(nd)-124(.006 Tc 19.0 Tc 0 Tw ()Tj EMC 9(/P < 2. Please explain how these assessment efforts are coordinated with Madrid (courses and/or program)?

Not applicable.

- 3. The program assessment plan should be developed and approved by all faculty in the department. In addition, the program assessment plan should be developed to include student input and external sources (e.g., national standards, advisory boards, employers, alumni, etc.). Describe the process through which your academic unit created this assessment plan. Include the following:
 - a. Timeline regarding when or how often this plan will be reviewed and revised. (This could be aligned with program review.)

Assessment plan and procedures will be reviewed and revised on a biannual cycle, beginning at end of AY 2016-17.

b. How students were included in the process and/or how student input was gathered and incorporated into the assessment plan.

Revision of student evaluation forms to include selected questions for assessment. Interview of selected graduating students.

c. What external sources were consulted in the development of this assessment plan?

None to date.

d. Assessment of the manageability of the plan in relation to departmental resources and personnel.

The department has inadequate resources to fully implement this plan. Mathematics faculty work long hours already in performance of their duties in teaching, research, and service. In particular, successful mathematical research and innovative teaching of mathematics are extremely time-intensive. If these duties are truly valued by the university, then a staff position should be created in order to help the department shoulder this additional burden.