Saint Louis University
Program Assessment Plan

Program (Major, Minor, Core) : Doctor of Philosophy 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.	How does the program use assessment results to recognize success and "close the loop" to inform additional program improvement? How/when is this data shared, and with whom?
Demonstrate fundamental knowledge in the areas of algebra, analysis, topology, and differential geometry.	MATH 5110-5120, MATH 5210-5220/5230/5240, MATH 5310-6320, MATH 6410-6420.	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 mastery in three of the above four areas.	MATH 5110-5120, MATH 5210-5220/5230/5240, MATH 5310-5320, MATH 6410-6420.	Preliminary exam item analysis	Data shared with subsequent AY instructors in the relevant courses and faculty administrators of subsequent preliminary exams.

1. It is <u>not recommended</u> to try and assess (in depth) all of the program learning outcomes every semester. It is best practice to plan out when each outcome will be assessed

extremely time-intensive.