

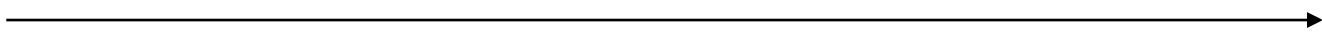
**Ph.D. Mathematical Sciences**

Program	Ph.D. Mathematical Sciences
Department(s)	Mathematical Sciences
College	Sciences
Program Assessment Coordinator	Graduate Coordinator
Five-Year Implementation Dates (2010-2011 to 2015-2016)	Full report at the beginning of the Fall semester each even year; first full report Fall 2012.

**1. Student Learning Outcomes for the program.** List the Student Learning Outcomes for the program. *Number for later reference.*

1. Students will have a broad understanding of several areas of mathematical sciences. They will be able to formulate and solve problems in these areas.
2. Students will be able to understand, analyze, create, and write mathematical proofs.
3. Students will be able to study and understand mathematical literature.
4. Students will be able to produce a piece of original research that is publishable in a peer-reviewed journal.

**2. Curriculum Alignment of Student Learning Outcomes.** Where is the information covered in the courses required in the program?  
 At what developmental stage is it covered (Beginning, Middle, or End)?

Student Learning Outcomes for the Program 

Courses in program (required & electives)

1 (use #s from 1 <sup>st</sup> page)	1	2	3	4					
707-08	B	B							
703-04	B	B							
709-10	B	B							
765-66	B	B							
771-72	B	B							
S 761-62	B	B							
S 767-68	B	B							
790			M						
799				E					
S 799				E					

**B = Beginning, M = Middle, E = End**  
 B = outcome introduced in beginning of development, such as in introductory course  
 M = outcome covered in middle stages of development  
 E = outcome fully developed at the end of career, such as in a capstone course