

## Learning Goals for Master of Arts in Mathematics for High School Teachers

Students will

1. Develop an in-depth integrated knowledge of topics related to the high school mathematics curriculum;
2. Students will be able to gain advanced competence in communicating mathematical ideas and presenting mathematical arguments both in writing and orally using proper use of mathematical notation and terminology;
3. Students will master mathematical concepts that they will be able to use to enrich their high school curriculum;
4. Students will be able to distinguish coherent mathematical arguments from fallacious ones and to construct precise arguments of previously seen or related results with the goal of teaching their students the importance of giving complete explanations of mathematical ideas;
5. Students will be able to synthesize material from multiple perspectives and make connections with other areas of mathematics; and
6. Students will be able to use mathematics teaching technology appropriate to each mathematical topic.

### Alignment with Institutional Learning Goals

Graduates will	1	2	3	4	5	6
Demonstrate an integrative knowledge of the human and natural worlds;	X				X	
Develop habits of critical analysis and aesthetic appreciation;		X	X	X		
Apply creative and innovative thinking;			X	X		
Communicate skillfully in multiple forms of expression;		X				
Act competently in a global and diverse world;						
Understand and promote social justice;						
Apply a framework for examining ethical dilemmas;						
Employ leadership and collaborative skills;						
Understand the religious dimensions of human experience.						

### Alignment with Assessment Measures

Measure	1	2	3	4	5	6
Final Oral Comprehensive Exam	Direct	Direct	Direct	Direct	Direct	Direct
Master's Essay	Direct	Direct	Direct	Direct	Direct	Direct
Exit Interviews	Indirect	Indirect	Indirect	Indirect	Indirect	Indirect
Alumni Survey	Indirect	Indirect	Indirect	Indirect	Indirect	Indirect