

# **MAT Secondary Mathematics**

## **Goals and Objectives**

**Goal 1: To provide an educator preparation program for prospective secondary mathematics teachers with the experiences needed to become 21<sup>st</sup> century education professionals.**

1.1: To facilitate knowledge of the societal and organizational structure and diversity of the 21<sup>st</sup> century school and the classroom.

1.2: To provide experiences which lead to the acquisition of skills to deliver the mathematics content in 21<sup>st</sup> century context with 21<sup>st</sup> century tools.

1.3: To facilitate clinical experiences in the secondary mathematics classroom with highly qualified mathematics cooperating teachers.

**Goal 2: To facilitate the secondary mathematics teacher education candidate with the acquisition of the content knowledge, skills and disposition to produce globally competitive 9-12 students.**

2.1: To expand the mathematics content knowledge needed to teach secondary Mathematics.

2.2: To understand the role of the mathematics teacher in the secondary school environment.

2.3: To make relevant the connections of mathematics to real world applications, globally.

**Goal 3: To assist the prospective secondary mathematics teacher to develop the leadership skills needed to effectively collaborate, facilitate change and innovation, and make informed decisions which impact student learning and success.**

3.1: To provide classroom and school experiences that allow the prospective teacher to practice the leadership skills for planning and collaboration.

3.2: To develop the skills needed to analyze and reflect upon student performance and make decisions addressing the impact on student learning.

**Goal 4: To facilitate the prospective secondary mathematics teacher's understanding of how to develop a learning environment that is nurturing, inclusive, healthy and safe.**

4.1: To understand the issues related to how 9-12 students learn mathematics.

4.2: To understand and develop skills in organizing and managing the secondary mathematics classroom.

4.3: To create a mathematics classroom which recognizes the diversity of students and provides a positive experience in the study of mathematics.