

M.Ed. Secondary Mathematics

Goals and Objectives

Goal 1: To provide for the secondary mathematics teacher a rigorous and deeper study in the field of mathematics.

1.1: To assist the candidate to develop a deeper knowledge of mathematics and the interconnectedness across disciplines.

1.2: To provide opportunities for the candidate to expand the mathematics learning environment through global connections and real-world context for mathematics.

Goal 2: To provide the secondary mathematics teacher opportunities for in depth synthesis of the research and best practices in secondary mathematics education, both theoretical and practical.

2.1: To articulate a vision for mathematics education in the 21st century for all students.

2.2: To assist the candidate in becoming a facilitator of student learning who is skilled in applying a variety of authentic formative and summative performance-based assessments to impact, inform, and improve instruction.

2.3: To facilitate a deeper understanding of adolescent development in the learning of mathematics.

Goal 3: To assist the secondary mathematics teacher in incorporating 21st century content and skills such as Creativity, Critical Thinking and Problem-Solving, Communication, Collaboration, Information Literacy, Media Literacy, ICT Literacy, and Leadership into the secondary mathematics curriculum.

3.1: To provide for more advanced training in the use of the technologies appropriate for mathematics instruction.

3.2: To assist the candidate in developing the skills needed for ongoing and continued personal and professional reflection to extend student learning and overall school improvement.

Goal 4: To assist the secondary mathematics teacher in developing effective leadership skills as the teacher leader in the classroom, as a school leader and as leader in the community.

4.1: To assist in developing the skills necessary to become effective collaborative and ethical leaders.

4.2: To assist candidates in developing a global awareness which promotes understanding, tolerance, and acceptance of ethnic, cultural, religious and personal differences as they play out in the classroom and community.