

Mathematics for Advanced Secondary Instruction

About the Program

This certificate provides the content knowledge required by instructors of mathematics courses that are designed to qualify for college credit but are offered in high school (as dual enrollment or advanced placement) or in other pre-undergraduate settings. Advanced secondary teachers will be equipped to teach college-level material with a profound understanding of the mathematical content, and they will be familiar with a variety of strategies and technologies that support content mastery. Graduates demonstrate advanced knowledge of mathematics for teaching applicable in courses such as college algebra, trigonometry, calculus, and statistics.

Student Profile

This program is designed for current and future teachers of mathematics at the advanced secondary and early-college levels.

Course Overview

This certificate consists of 18 credit hours.

- MATH 4005 Geometry
- MATH 4024 Mathematical Models
- MATH 6303 Implementing Curriculum Standards for Mathematics in High School [algebra and trigonometry]
- MATH 6303 Implementing Curriculum Standards for Mathematics in High School [statistics]
- MATH 6893 Seminar in Mathematics for Secondary Teachers [calculus]

Program Prerequisites

Applicants should have completed several advanced undergraduate courses in mathematics. Experience teaching mathematics at the secondary level is desirable.

This certificate serves as a credential for teaching dual enrollment math courses and other math courses (such as AP calculus) that may be recognized for college credit. It can later be used as credit toward the Master of Natural Sciences degree.



Program Details

- Requirements: 18 credit hours
- Time to Complete: 12-18 months
- Class Times: Evenings during the Fall and Spring terms and daytime in Summer
- Cost (per 3 credit hour course):
\$1,364 (resident);
\$2,166 (nonresident)
- Start Date: Fall or Spring semesters and Summer terms
- Available Online: Not presently, but planned

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