

## **Graduate Programs in Mathematics Education**

## K-12 Mathematics Specialist Endorsement

- ED 601: Foundations and Issues of Mathematics Education (2 credits)
- ED 611: Algebraic Reasoning for K-12 Educators (2 credits)
- ED 621: Geometry & Measurement for K-12 Educators (2 credits)
- ED 631: Data Analysis & Probability for K-12 Educators (2 credits)
- ED 641: Understanding Student Thinking in Numbers and Operations (2 credits)
- ED 651: Understanding Student Thinking in Algebra (2 credits)
- ED 661: Understanding Student Thinking in Geometry & Measurement (2 credits)
- ED 671: Assessment for School Mathematics (2 credits)
- ED 741: Historical Development of Mathematical Concepts (2 credits)
- ED 751: Leadership in School Mathematics (2 credits)
- Additional Requirements: Master's degree or National Board Certification plus 3 years of experience teaching math in a K-12 setting.
- Master of Science in Curriculum & Instruction with Specialization in Math Education (MSCI) 18 specialization credits plus 17 MSCI core class credits constitute a combined master's degree and K-12 math specialist program (35 credits).

ED 630: Educational Inquiry and Collaboration (3 credits) \*\*The requirements of ED 630 (3) will be met by taking ED 663 Graduate Writing (1) + ED 601 Foundations & Issues of Mathematics Education (2)

- ED 703: Applying Learning Theory to Instruction & Assessment (3 credits)
- ED 744: Curriculum Development & Instruction (3 credits)
- ED 750: Action Research in Schools (3 credits)
- ED 748: Cultural Diversity in Schools (3 credits)
- ED 790: Educational Research in Schools (2 credits)

## Graduate-level Certificate in Mathematics Education

Six of the 10 math specialist courses listed above constitute a 12-credit certificate program: ED 601, ED 611, ED 621, ED 631\*, ED 641 and ED 651. \*May substitute ED 661.