

# Master of Science in Mathematics Education (M.S.M.E.)



## Seidel School of Education

## Salisbury University Graduate School

### About the M.B.A. Program

The Department of Mathematical Sciences offers a Master of Science in Mathematics Education (M.S.M.E.). The M.S.M.E. is intended for those who teach mathematics and those who wish to teach mathematics. The program has two tracks, one in middle school mathematics, and another in high school mathematics.

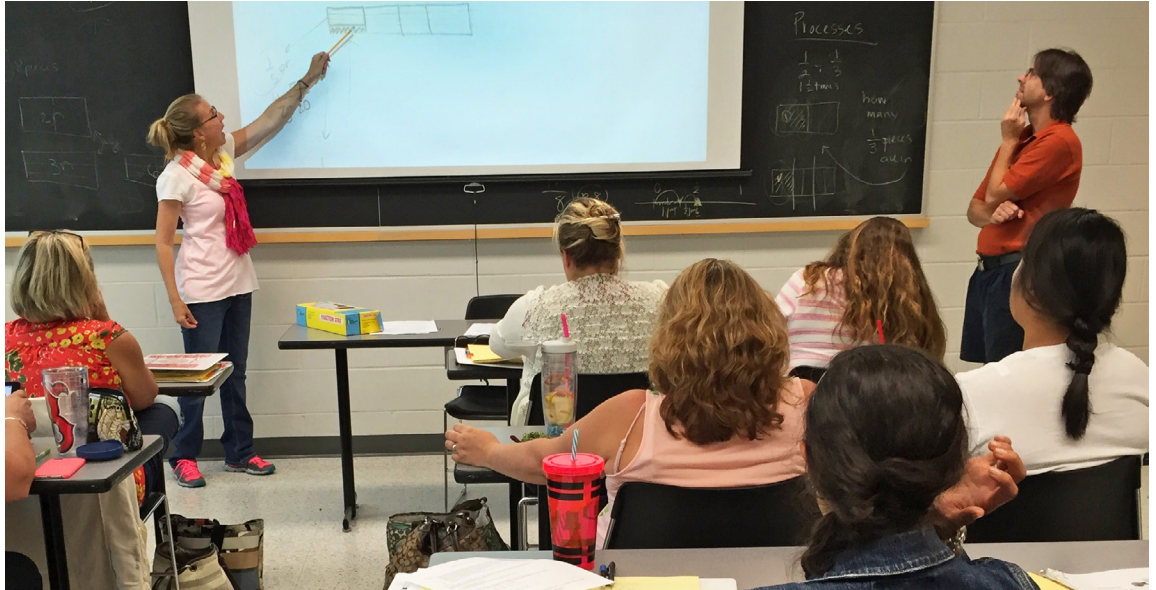
The program does include education requirements, but unlike the M.Ed., it is based on mathematics content and pedagogy. The electives allow participants to take more mathematics or education content courses depending on personal and professional interests.

Applicants should currently hold valid teaching certification or be working toward teaching certification through another program. NOTE: This degree is not a teaching certificate. The awarding of the M.S.M.E. does not carry certification to teach.

The M.S.M.E. program is comprised of 33 credit hours, including a 12-hour core of mathematics specialization courses and a 12-hour core of education courses.

### Convenient Hybrid Offerings

SU currently offers classes that meet face to face approximately 60 percent of the time, with the other sessions being held online in an asynchronous fashion. For the last several years, the special topics, 500-level mathematics courses have been offered in a hybrid fashion.



### REQUIREMENTS

M.S.M.E. students select either the Middle School Track or High School Track. The candidate must complete the required mathematics courses for the track chosen. The required math courses in both tracks are linked to the core learning goals in algebra, geometry and data analysis. Depending on availability, other courses that meet the requirements may be substituted.

#### Middle School Track

MATH 545: Conceptual Algebra for Teachers OR

MATH 555: The Cartesian Triad and  
MATH 566: Geometry: From Euclid to Modern Day

MATH 503: Data Analysis

MATH 501: Number Theory from a Multicultural and Historical Perspective OR

MATH 565: Mathematical Modeling for Middle School Teachers or their equivalents

#### High School Track

MATH 507: Seminar: Algebra

MATH 508: Seminar: Geometry

MATH 500: Foundations of Number Theory

MATH 502: Applied Statistics

#### Education Specialty Requirements

EDUC 502: Introduction to Research

EDUC 504: Diversity in a Democracy

EDUC 545: Learning and Instruction

EDUC 506: Seminar in Teaching Mathematics or their equivalents

#### Electives

(6 semester hours)

The two elective courses may be taken from the graduate offerings in education, mathematics or science. See graduate advisors for recommended electives for each track. Recommended electives are listed on the checklist for the program.

#### Capstone Courses

(3 semester hours)

All candidates for the M.S.M.E. will complete the mathematics education capstone experience.

EDUC 695: Research Seminar



*“Without mathematics, there’s nothing you can do. Everything around you is mathematics. Everything around you is numbers.”*

*– Shakuntala Devi*

### CONTACT INFORMATION

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