

# MASTER OF ARTS IN EDUCATIONAL MATHEMATICS

# WE ARE meaningful, affordable and convenient!

**NEW!**  
EARN YOUR  
MAEM  
ONLINE



## MEANINGFUL

- An advanced degree in Mathematics
- Classic and contemporary disciplinary content
- Courses designed specifically for educators
- Face-to-face or synchronous online class sessions

The Master of Arts in Educational Mathematics program is designed for teachers holding Adolescent/Young Adult (AYA) licensure in Integrated Mathematics or other math educators, including community college faculty, holding a bachelor's degree in mathematics or a closely-related area.

## AFFORDABLE

- Scholarship opportunities for teachers in urban and rural districts

The Master of Arts in Educational Mathematics program offers merit-based scholarships to top candidates when admitted. All MAEM candidates will be considered.

Additional scholarship opportunities are available for Otterbein Alumni pursuing graduate study in MAEM.

## CONVENIENT

- Customizable curriculum with no pre-requisite structure
- Accommodating evening and summer schedules
- Face-to-face or synchronous online class sessions

Are you a licensed AYA teacher who wants to teach **College Credit Plus** courses or at a community college? With Otterbein's **18 in 15 Program**, you can earn the 18 semester hours that you need in only 15 months with 10 courses, 30 credits in under two years. Our educational mathematics classes are offered in the evenings and during the summer, providing practical information and experiences to apply in your classroom.

### LEARN MORE: MAEM Grad Info Sessions

Register Today for an Information Session  
@ [grad-visit.otterbein.edu](http://grad-visit.otterbein.edu)

*Everything you need to know to enroll in just 30 minutes!*

### FOR MORE INFORMATION

[jsmith@otterbein.edu](mailto:jsmith@otterbein.edu) • [GradAdmit@otterbein.edu](mailto:GradAdmit@otterbein.edu)  
614.823.1096 • [www.otterbein.edu/gradschool](http://www.otterbein.edu/gradschool)



**OTTERBEIN**  
UNIVERSITY

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# MASTER OF ARTS IN EDUCATIONAL MATHEMATICS

## CURRICULUM

**30 semester hours,**  
*with the following guidelines*

**1. Mathematical Processes (6 semester hours required)**

EDUC 6880  
Problem Solving in Mathematics Education (3)  
EDUC 6881  
Discourse in Mathematics Education (3)  
EDUC 6882  
Representations in Mathematics Education (3)

**2. Mathematics from a Modern Viewpoint (15 semester hours required)**

MATH 6110  
Algebraic Structures for Mathematics Teachers (3)  
MATH 6120  
Probability and Statistics for Mathematics Teachers (3)  
MATH 6130  
Finite Mathematics for Mathematics Teachers (3)  
MATH 6140  
Number Theory for Mathematics Teachers (3)  
MATH 6150  
Advanced Geometry for Mathematics Teachers (3)  
MATH 6160  
Advanced Calculus for Mathematics Teachers (3)

**3. Comparative Studies in Mathematics (6 semester hours required)**

MATH 6210  
Great Theorems in Mathematics (2)  
MATH 6220  
Combinatorics for Mathematics Teachers (2)  
MATH 6230  
Topology for Mathematics Teachers (2)  
MATH 6240  
Dynamical Systems for Mathematics Teachers (2)  
MATH 6250  
Game Theory for Mathematics Teachers (2)

**4. Action Research Capstone (3 semester hours)**

EDUC 6890  
Mathematics Education Research Seminar (2)  
EDUC 6895  
Master's Research Project (1)

**5. Comprehensive Exams**

**FOR MORE INFORMATION**

jsmith@otterbein.edu • GradAdmit@otterbein.edu  
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