



**Earn your  
Elementary  
Math Specialist  
Graduate  
Certificate**

***Make a difference in mathematics education, add to your expertise, and multiply your career options***

- + The Elementary Math Specialist Certificate program will prepare you to improve mathematics teaching and learning in Michigan schools. Further your career by training for a position as a math coach, teacher leader, mathematics program administrator or supervisor, or elementary math teacher.
- + Build your content knowledge, expand your teaching methods, and strengthen your leadership skills through examination of topics and trends in mathematics education. Coursework will focus on the practical application of theories and integration of technology in the classroom to improve student learning.
- + Wayne State is the only institution in Michigan that offers this program. Classes are available in traditional and hybrid formats during the fall, winter, and spring/summer terms.
- + Candidates should be licensed to teach elementary school in Michigan.

## Introductory Certificate (12 credits)

### Required courses

- MAE 6150 Special Topics: Teacher Learning and Professional Development in Mathematics Education
- MAE 6400 Elementary School: Mathematics Curriculum and Assessment

### Elective courses (complete at least two)

- MAE 6050 Teaching Mathematics in the Middle Grades
- MAE 6450 Integrating Literature and Mathematics in the Elementary School
- MAE 7150 Advanced Studies in Teaching Discrete Mathematics
- MAE 7200 Advanced Studies in Teaching Statistics and Probability
- MAE 7250 Advanced Studies in Teaching Algebra
- MAE 7300 Advanced Studies in Teaching Geometry
- MAT 5120 Abstract Algebra for Middle School Teachers
- MAT 5130 Problem Solving for Middle School Teachers
- MAT 5180 Geometry for Middle School Teachers
- MAT 5190 Number Theory for Middle School Teachers

## Advanced Certificate (12 credits)

Candidates must have earned an introductory certificate to pursue advanced certification. They must also complete the courses below.

### Required course

- MAE 7400 Seminar in Mathematics Education

### Elective courses (complete at least three from the list below or introductory certification elective courses that have not been taken )

- CED 6700 The Role of the Teacher in Guidance
- EDA 7600 The Structure of American Education
- EDA 7660 Administrative Leadership in School-Community Relations and Public Relations
- EDA 8630 Supervision
- EDA 8650 Staff Development and School Improvement
- LDT 6140 Designing Web Tools for the Classroom
- LDT 6230 Internet in the Classroom
- LDT 7220 Multimedia for Instruction
- LDT 7230 Advanced Multimedia for Instruction
- MAE 8400 Technology in Mathematics Learning and Teaching
- MAE 8550 Theoretical Perspectives on Learning Mathematics

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## credits

can be applied toward  
a master's degree



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