

MATHEMATICS EDUCATION, M.ED.

e-Learning

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The M.Ed. in Mathematics Education is designed to provide content and pedagogy appropriate for the teaching of mathematics with options for increasing the teacher’s understanding of content area literacy, the inclusion of students with special needs and utilizing technology to teach mathematics. The mathematics content is designed to strengthen understanding of the mathematics taught in the K-8 curriculum. Candidates must prepare an exit portfolio, demonstrating competency in the nine outcomes of the School of Education (i.e., philosophy, development, diversity, content, student learning, learning environment, professionalism, technology). The M.Ed. Mathematics Education program is not an initial teacher certification program. For an initial teaching certificate see Bachelor of Arts in Elementary Education programs, or Master of Arts in Teaching programs. Students wanting a K-5 or K-8 Mathematics Education teaching endorsement will be eligible upon completion of the requirements for the specific Certificate Program. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00.
3. Two general recommendations written on UAS provided form by former or current professors, employers, or supervisors who are familiar with your work and performance and submitted on form located on School of Education website.
4. A Statement of Professional Objectives.
5. Copy of a current teaching or administrative certificate.

Additional information and links to forms at uas.alaska.edu/education/programs/med-math.html (<https://uas.alaska.edu/education/programs/med-math.html>).

Requirement	Hours
Minimum Credit Hours	36
Major Requirements	36

Code	Title	Credits
Major Requirements		
EDET S628	Technology in Instructional Design	3
EDET S636	The Impact of Technology on Student Learning	3
EDET S668	Educational Technology Leadership	3
EDMA S608	Mathematical Problem Solving for K-8 Teachers	3
EDMA S614	Numeration and Operations: Mathematics for K-8 Teachers	3

EDMA S654	Algebra and Functions: Content and Pedagogy for K-8 Teachers	3
EDMA S655	Geometry and Measurement: Content and Pedagogy for K-8 Teachers	3
EDMA S656	Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers	3
EDMA S657	Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers	3
EDMA S658	Technology for Teaching and Learning Mathematics	3
EDMA S698	Master’s Research Project or Portfolio	3
Advisor approved Elective ¹		3
Total Credits		36

¹ Graduate level advisor approved elective with an emphasis on pedagogy