

# SECONDARY MATHEMATICS SPECIALIST CERTIFICATE

Department of Mathematics, College of Arts & Sciences

## Vision Statement

The Secondary Mathematics Specialist certificate is ideal for:

- Current high school teachers who are planning on teaching advanced secondary mathematics such as Dual-Enrollment college algebra at their high school and already have a masters degree in a STEM or education field or would like to get one.
- Any student interested in teaching freshman/sophomore level mathematics courses at local universities.

NOTE: This program does not help a student get a state certification to teach high school math. For those students with an undergraduate degrees already interested in pursuing a degree to teach high school math, but do not yet have a state certification to teach, consider the Teacher Academy Project (<http://www.unomaha.edu/college-of-education/moec/projects/teacher-academy-project/>).

## Program Contact Information

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Program Website (<http://www.unomaha.edu/college-of-arts-and-sciences/mathematics/>)

## Other Program Related Information

### Teachers of Mathematics Scholarship

The Teacher of Mathematics Scholarship is awarded to teachers of high school mathematics who are interested in obtaining a graduate degree in mathematics (MS, MA, or MAT) at UNO for the purpose of becoming eligible to teach UNO calculus dual enrollment courses. Students pursuing this certificate can qualify for this scholarship if planning to pursue a MS, MA or MAT in mathematics in conjunction with this certificate. These scholarships are awarded to teachers in school districts that are participating in the Dual Enrollment program. They will provide for the reimbursement of resident tuition for up to six graduate credit hours per semester for one year. No scholarship award becomes final until UNO graduate admission status is obtained. Continuation beyond the first year depends upon satisfactory academic progress and funds available. For further information contact Dr. Janice Rech, [jrech@unomaha.edu](mailto:jrech@unomaha.edu).

## Admissions

General Application Requirements and Admission Criteria (<http://catalog.unomaha.edu/graduate/admission/>)

## Program-Specific Requirements

### Application Deadlines (Spring 2024, Summer 2024, and Fall 2024)

Applications for this program are accepted on a rolling basis. All materials must be submitted prior to the beginning of the semester in which the student has elected to begin coursework.

## Other Requirements

Individuals applying must satisfy the following requirements which are the same as for the Mathematics MAT degree.

- **English Language Proficiency:** Applicants are required to have a command of oral and written English. Those who do not hold a baccalaureate or other advanced degree from the United States, **OR** a baccalaureate or other advanced degree from a predetermined country on the waiver list (<https://www.unomaha.edu/graduate-studies/prospective-students/Proof%20of%20English%20Proficiency-%20International.pdf>), must meet the minimum language proficiency score requirement in order to be considered for admission.
  - Internet-based TOEFL: 80, IELTS: 6.5, PTE: 53, Duolingo: 110
- Have obtained at least a "B" (3.0 on a 4.0 scale) average in previous mathematics courses, including two courses beyond elementary calculus.
- Hold state certification for teaching secondary school mathematics.
- Course prerequisites will be determined at admission.

## Degree Requirements

Code	Title	Credits
<b>Required Courses</b>		
MTCH 8020	MATHEMATICAL MODELING FOR SECONDARY TEACHERS	3
MTCH 8030	ALGEBRA FOR ALGEBRA TEACHERS	3
MTCH 8040	TOPICS IN MATHEMATICAL COMPUTING	3
MATH 8756	INTRODUCTION TO PROBABILITY AND STATISTICS II	3
STAT 8416 or STAT 8426	INTRODUCTION TO DATA SCIENCE EXPLORATORY DATA VISUALIZATION AND QUANTIFICATION	3
<b>Elective</b>		
Complete one 3 hour MATH or STAT graduate course		3
<b>Total Credits</b>		<b>18</b>