

# Graduate Certificate: Mathematics for Teaching

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COLLEGE OF SCIENCE AND TECHNOLOGY

Learn more about the graduate certificate in Mathematics for Teaching.

## About the Certificate

Mathematics forms the base for all areas of science. However, there is a shortage of qualified mathematics teachers in Pennsylvania and nationwide. The U.S. Department of Education Office of Postsecondary Education documents a shortage of both middle- and secondary-level mathematics teachers in Pennsylvania. See <https://www2.ed.gov/about/offices/list/ope/pol/bteachershortageareasreport201718.pdf>.

The Mathematics Department offers a graduate certificate in mathematics education for teachers to help those with undergraduate degrees in related fields develop their mathematical knowledge and expertise in order to better equip them to teach in a middle or secondary mathematics or science classroom. The content covered in the 12-credit program aligns with the Standards for Mathematical Practice set forth in the Common Core State Standards Initiative. At the completion of the program, students have a better understanding of the theory beneath the topics they will teach their future students.

**Campus Location:** Main

**Full-Time/Part-Time Status:** The graduate certificate can be completed on a part-time basis. NOTE: International students may not be eligible to apply for a student visa based on admission to the certificate program. Please contact the graduate chairperson for more information.

**Non-Matriculated Student Policy:** Students can take up to 9 credits on a non-matriculated basis. When they complete 9 credits, they must declare their intention to complete the graduate certificate in Mathematics for Teaching by completing and submitting the "Non-Degree Seeking Student Request to Exceed 9 Credits of Graduate Coursework for Certificate Program," found in TUportal under the Tools tab within "University Forms."

## Admission Requirements and Deadlines

**Bachelor's Degree in Discipline/Related Discipline:** All applicants must present credentials that are the equivalent of the appropriate baccalaureate degree at Temple University.

## Certificate Requirements

*Number of Credits Required to Complete the Certificate:* 12

*Required Courses:*

Code	Title	Credit Hours
Select four from the following:		12
MATH 5011	Algebra and Functions for Teaching	
MATH 5012	Introduction to Mathematical Modeling for Teaching	
MATH 5013	Geometry for Teaching	
MATH 5014	Probability Theory and Applications for Teaching	
MATH 5017	Number Theory and Proof for Teaching	
<b>Total Credit Hours</b>		<b>12</b>

**GPA Required to be Awarded the Certificate:** 3.0 minimum

## Contacts

### Certificate Program Web Address:

<https://www.temple.edu/academics/degree-programs/mathematics-for-teaching-certificate-graduate-st-mftc-grad>

### Department Information:

Dept. of Mathematics  
638 Wachman Hall  
1805 N. Broad Street  
Philadelphia, PA 19122-6094  
[grad.math@temple.edu](mailto:grad.math@temple.edu)

215-204-7842

**Submission Address for Application Materials:**

<https://cst.temple.edu/academics/graduate-programs/apply-now>

**Department Contacts:**

*Graduate Chairperson:*

David Futer, PhD  
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215-204-7854

*Department Chairperson:*

Brian Rider, PhD  
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