Graduate Certificate: Mathematics for Teaching

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 shows 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 proposes a new 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:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 5011</td>
<td>Algebra and Functions for Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5012</td>
<td>Introduction to Mathematical Modeling for Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5013</td>
<td>Geometry for Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5014</td>
<td>Probability Theory and Applications for Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5017</td>
<td>Number Theory and Proof for Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 12

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
215-204-7842

Submission Address for Application Materials:
https://cst.temple.edu/academics/graduate-programs/apply-now

Department Contacts:

Graduate Chairperson:
Yury Grabovsky, Ph.D.
grad.math@temple.edu
215-204-1650

Chairperson:
Irina Mitrea, Ph.D.
mathematics@temple.edu
215-204-4650