

# Mathematics Teaching and Learning (Certificate)

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The Graduate Certificate in Mathematics Teaching and Learning is an online program that focuses on developing knowledge and instructional approaches in teaching mathematics. The program will primarily serve practicing teachers in middle school through college settings, or those preparing for careers in such settings, who want to expand their expertise related to teaching and learning mathematics. Students will learn how to apply research-based understandings of students' thinking, pedagogical approaches, and broader educational issues (e.g., discourse and equity) to inform practices of teaching content such as geometry, algebra, and statistics.

## Plan Requirements

Code	Title	Hours	Counts towards
Select four of the following:		12	
EMS 510	Interactions In the Mathematics Classroom		
EMS 513	Teaching and Learning of Algebraic Thinking		
EMS 514	Teaching and Learning of Geometric Thinking		
EMS 519	Teaching and Learning of Statistical Thinking		
EMS 580	Teaching Mathematics with Technology		
<b>Total Hours</b>		<b>12</b>	