

# Mathematics Education (Minor)

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## Plan Requirements

### Master's Requirements

Code	Title	Hours	Counts towards
<b>Required Courses</b>		<b>9</b>	

Select three of the following courses:

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		
EMS 573	Design of Tools and Learning Environments in STEM Education		

**Total Hours** 9

### PhD Requirements

Code	Title	Hours	Counts towards
<b>Required Courses</b>		<b>12</b>	

Select three or four courses from the following:

EMS 704	Curriculum Development and Evaluation In Science and Mathematics		
EMS 705	Education and Supervision Of Teachers Of Mathematics and Science		
EMS 711	Research on the Teaching and Learning of Math at Secondary and Early College Levels		

EMS 712	Teaching Mathematics In Elementary and Junior High School		
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EMS 770	Foundations Of Mathematics Education		
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EMS 790	Foundational Learning Theories in STEM Education (course pending Admin Board approval 2021)		
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EMS 791	Contemporary Research and Critical Issues in STEM Education		
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Select one or no courses from the following:

EMS 510	Interactions In the Mathematics Classroom		
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EMS 513	Teaching and Learning of Algebraic Thinking		
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EMS 514	Teaching and Learning of Geometric Thinking		
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EMS 519	Teaching and Learning of Statistical Thinking		
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EMS 580	Teaching Mathematics with Technology		
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EMS 573	Design of Tools and Learning Environments in STEM Education		
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**Total Hours** 12

## Faculty

### Full Professors

Jo-Ann D. Cohen

Karen Flanagan Hollebrands

Hollylynne Stohl Lee

Paola Sztajn

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## **Associate Professors**

Jessica Heather Hunt

Temple A. Walkowiak

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## **Assistant Professors**

Robin Keturah Anderson

Sunghwan Byun

Ruby Ellis

Erin Krupa

Jonee Wilson

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## **Emeritus Faculty**

Norman Dean Anderson

Jere Confrey

John Ronald Kolb

Larry W. Watson