TEACHING, LEARNING AND LEADERSHIP: MATHEMATICS/ SCIENCE EDUCATION, MS

Requirements for Students Matriculating in or before Academic Year 2023-2024. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 36

Code	Title	Hours	
Common Program Core			
CIED 5053	Curriculum Issues	3	
CIED 5813	Educational Advocacy and Leadership	3	
Hours Subtotal		6	
Research Requirement			
Select 6 hours from the following:		6	
CIED 5073	Pedagogical Research		
MATH 5913	Introduction to Research in Mathematics Education		
REMS 5013	Research Design and Methodology		
REMS 5953	Statistical Methods in Education		
STAT 5013	Statistics for Experimenters I		
SCFD 5913	Introduction to Qualitative Inquiry		
Hours Subtotal		6	
Program Core			
SMED 5750	Seminar in Mathematics Education	3	
SMED 5193	Inquiry and Problem-Based Learning in Science Education	3	
or SMED 5283	Problem-Centered Learning in Mathematics		
Hours Subtotal		6	
Areas of Emphasis			
Select 12 hours		12	
Hours Subtotal		12	
Elective or Thesis			
Select 6 hours		6	
SMED 5050	Seminar in Integrated Mathematics and Science Applications		
SMED 5193	Inquiry and Problem-Based Learning in Science Education		
SMED 5223	Teaching Science in the Schools		
SMED 5243	Environmental Education in the Curriculum		
SMED 5253	Teaching Rational Number Concepts, Proportional Reasoning, and Classroom Interactions		
SMED 5263	Assessment and Evaluation in School Mathematics		
SMED 5270	Practicum in School Mathematics		
SMED 5273	Number Concepts and Assessment at the Elementary Level (PK-6)		
SMED 5280	Workshop in Science Education		
SMED 5283	Problem-Centered Learning in Mathematics		

SMED 5293	Teaching and Learning Mathematics in Technology	
SMED 5313	Introduction to K-12 Engineering Education	
SMED 5323	Technology for the K-12 STEM Educator	
SMED 5333	Developing Informal and Formal STEM Programs in Schools	
SMED 5613	Effective Teaching of Mathematics in the Secondary School	
SMED 5750	Seminar in Mathematics Education	
SMED 5813	Assessment in Science Education	
SMED 5913	Teaching Geometry and Spatial Visualization	
SMED 5923	Teaching Algebra and Mathematical Tasks	
SMED 5933	Teaching Data and Probability in Schools	
SMED 5943	Mathematics Leadership and Coaching	
Hours Subtotal		6
Total Hours		36

Graduate College Master's Program Requirements

Learn more about Graduate College 2023-2024 Master's Degree Program Requirements (http://catalog.okstate.edu/graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.