

Learning & Teaching in STEM (PhD)

Degree Requirements

Code	Title	Hours	Counts towards
College Scholar Leader Courses		6	
ED 755	Scholar Leader: Diversity and Equity in Schools and Communities		
ED 756	Scholar Leader: Systemic Change in Education		
College Research Methods Courses		15	
Required Introductory Research Methods Courses		6	
ED 710	Applied Quantitative Methods in Education I		
ED 730	Introduction to Qualitative Research in Education		
Advanced Research Methods Courses (select one course from the list below)		3	
ED 711	Applied Quantitative Methods in Education II		
ED 731	Advanced Qualitative Research and Data Analysis in Education		
ED 750	Mixed Methods Research in Education		
Advanced Research Methods Electives		6	
Select two courses from the list above or other advanced research methods courses approved by student advisor.			
Dissertation Research		9	
EMS 895	Doctoral Dissertation Research		
Total college core hours		30	
Concentration area courses		30	
Required Courses			

EMS 791 Contemporary Research and Critical Issues in STEM Education

EMS 794 Special Problems in Science Teaching (Foundational Learning Theories in STEM Education)

Select 24 hours of additional coursework based on Concentrations listed below

Total Hours 60

¹ Students may also select from a design-based research course or courses in the Department of Statistics or Psychology at the level 500 or above (e.g., ST 505, PSY 880) approved in conjunction with the academic committee.

In addition to the required College core courses above, students must select one of 3 approved concentrations listed below and complete the minimum 30 hours required in the selected concentration (including the 2 required concentration area courses listed above).

1. Engineering and Technology Education
2. Mathematics and Statistics Education
3. Science Education

Faculty

Full Professors

Margaret R. Blanchard

Sarah J. Carrier

Aaron Catron Clark

Jo-Ann D. Cohen

Karen Flanagan Hollebrands

Carla Johnson

Melissa Gail Jones

Hollylynne Stohl Lee

Soonhye Park

Associate Professors

Cesar Delgado

Cameron Denson

Jessica Heather Hunt

Erin Krupa

Temple A. Walkowiak

Assistant Professors

Robin Keturah Anderson

Kirstin Collette Rogis Busch

Sunghwan Byun

Ruby Ellis

Tamecia Raishaun Jones

Daniel Kelly

Jonee Wilson

Practice/Research/Teaching Professors

Cynthia Page Edgington

Matt Reynolds

Instructor

Alonzo Alexander