

Learning & Teaching in STEM (PhD)

Degree Requirements

Code	Title	Hours
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 780	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
 Jessica Heather Hunt
 Carla Johnson
 Melissa Gail Jones
 Hollylynne Stohl Lee
 Soonhye Park

Associate Professors

Cesar Delgado
 Kristin Collette Rogis Busch
 Cameron Denson
 Erin Krupa
 Temple A. Walkowiak

Assistant Professors

Robin Keturah Anderson
 Sunghwan Byun
 Ruby Ellis
 Tamecia Raishaun Jones
 Daniel Kelly

Practice/Research/Teaching Professors

Cynthia Page Edgington
 Matt Reynolds

Emeritus Faculty

Eric Wiebe