

Learning and Teaching in STEM (PhD): Engineering and Technology Education

Degree Requirements

Code	Title	Hours	Counts towards
College Scholar Leader Core 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 (or equivalent)		
Advanced Research Methods Courses (select one course from list below)		3	
ED 711	Applied Quantitative Methods in Education II		
ED 731	Advanced Qualitative Research and Data Analysis in Education ¹		
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 the student advisor.			
Dissertation Research		9	

EMS 895	Doctoral Dissertation Research		
Learning and Teaching in STEM Education Core Courses		6	
EMS 791	Contemporary Research and Critical Issues in STEM Education		
EMS 794	Special Problems in Science Teaching		
Engineering and Technology Education Specialization Courses		15	
TED 751	Technology Education: A Discipline		
TED 752	Curricula for Emerging Technologies		
TED 755	Developing and Implementing Technology Education		
TED 756	Planning of Change in TED		
TED 758	Teaching Creative Problem Solving		
Specialty Courses to deepen understanding in focus area in conjunction with the academic committee		9	
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.

Faculty

Full Professors

Margaret R. Blanchard

Sarah J. Carrier

Aaron Catron Clark

Jo-Ann D. Cohen

Karen Flanagan Hollebrands

Carla Johnson

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Hollylynn Stohl Lee

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Associate Professors

Cesar Delgado

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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

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Instructor

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