



EDUCATION, CURRICULUM AND INSTRUCTION: PH.D. PROGRAM PLANNING FORM

STEM COURSE REQUIREMENTS: EFFECTIVE FALL 2023+ ADMITS

Name:	
Track:	
Adviser(s):	

Preliminary Exam Committee: Four faculty members - three (including the student's adviser) representing the major area and one representing the minor field (outside C&I) or supporting program (within or outside C&I).

Names of Major Examiners:		Names of Minor or Supporting Program Examiners:

Core Coursework: (6 credits)

Course Designator	Course Title	Term/ Year	Semester Credits
CI 8131*	CI Core: Critical Examination of Curriculum in Context		3
CI 8132*	CI Core: Teaching Theory and Research		3
	Credit Sub-Total		6

STEM Core Coursework: (9 credits)

Course Designator	Course Title	Term/ Year	Semester Credits
CI 8571*	Issues of Equity, Policy, and Social Justice in STEM Education		3
CI 8572*	Learning Theory and Classical Research in STEM Education		3
CI 8573*	Nature of Inquiry in STEM Education		3
	Credit Sub-Total		9

Science Education Focus: (6 credits) Required course is listed; 3 additional "Science" focused credits are required

Course Designator	Course Title	Term/ Year	Semester Credits
CI 8574*	History and Philosophy of Science in Education		3

	Credit Sub-Total		
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Mathematics Education Focus: (6 credits)

Course Designator	Course Title	Term/ Year	Semester Credits
	Credit Sub-Total		

Engineering Education Focus: (6 credits)

Course Designator	Course Title	Term/ Year	Semester Credits
	Credit Sub-Total		

Agricultural Education Focus: (6 credits)

Course Designator	Course Title	Term/ Year	Semester Credits
AECM 8090*	Seminar: Agricultural Education and Extension		
AECM 8094*	Research in Agricultural Education and Extension		
	Credit Sub-Total		

Research Methodology: (15 credits) CI 8134 should be taken in spring of first year and CI 8135 should be taken in fall of second year; a minimum of 6 credits (two semesters) of Statistics is required; + 3 credits in a research elective

Course Designator	Course Title	Term/ Year	Semester Credits
CI 8134*	Foundations of Research in Curriculum and Instruction I		3
CI 8135*	Foundations of Research in Curriculum and Instruction II		3
	Statistics requirement		
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	<i>Three credits of additional advanced coursework in quantitative or qualitative methods in consultation with adviser</i>		

