

**School of Teacher Education and Leadership
Ph.D. in Education Planning Guide**



Science Education Concentration

Student Name: _____ USU A#: _____

I. Curriculum and Instruction Core (10 credits), Required:

	Credit	Grade	Completion Date
TEAL 7015 Research Seminar: Orientation to Educational Research (1)			
TEAL 7150 Curriculum Theory (3)			
TEAL 7300 Historical, Social, and Cultural Foundations (3)			
TEAL 7310 Teaching and Learning Foundations (3)			
Highly Recommended:			
TEAL 7670 Literature Review in Education (3)			

II. Research Core Requirements (12 credits)

	Credit	Grade	Completion Date
Required:			
EDUC 6600 Statistical Foundations (3)			
EDUC 6770 Qualitative Research Methods (3)			
EDUC 6800 Mixed Methods Research (3)			
EDUC 7610 Regression Analysis (3)			
Highly Recommended:			
TEAL 7548 Qualitative Research Apprenticeship (1-3)			
ITLS 7350 Ethnography (3)			
TEAL 7546 Qualitative Data Analysis (3)			

III. Science Education Concentration (15 credits)

	Credit	Grade	Completion Date
TEAL 7710 History of Science Education (3)			
TEAL 7712 STEM Education: Research Development (3)			
TEAL 7713 Nature of Science Research (3)			
TEAL 7714 Misconceptions in Science Education (3)			
TEAL 7715 Argumentation and Thesis Writing for Science Educators (3)			

IV. Electives (11 credits) Prereqs, such as PSY 3010, EDUC/PSY 6570, and ITLS 7920 cannot be used to complete the Program of Study

	Credit	Grade	Completion Date
EDUC/PSY 6570 (3) (Required unless waived)			
TEAL 7900 Independent Study (1-3)			
TEAL 7910 Independent Research Experience (3)			

V. Dissertation Credits (12 credits)

	Credit	Grade	Completion Date
TEAL 7970 Dissertation (3-6)			
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Total Credit Hours Required in Ph.D. Program (60)	
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Student Signature _____ Chair Signature _____