**School of Teacher Education and Leadership**

**Ph.D. in Education Planning Guide**

## Science Education Concentration

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_USU A#:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **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 6870 Ethnography  |  |  |  |
| TEAL 7545 Qualitative Data Analysis  |  |  |  |
|  |  |  |  |
| **III. Science Education Concentration (15 credits)** |  | Credit | Grade | Completion Date |
| TEAL 7710 History and Contemporary Issues of Science Education (3) |  |  |  |
| TEAL 7712 STEM Education: Research Development (3) |  |  |  |
| TEAL 7715 Argumentation and Thesis Writing for Science Educators (3) |  |  |  |
| TEAL 7713 Nature of Science Research (3) |  |  |  |
| TEAL 7714 Misconceptions in Science Education (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 |
| TEAL 7900 Independent Study (1-3)  |  |  |  |
| TEAL 7910 Independent Research Experience (3) |  |  |  |

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| **V. Dissertation Credits (12 credits)** | Credit | Grade | Completion Date |
| TEAL 7970 Dissertation (3-6) |  |  |  |
| TEAL 7970 Dissertation (3-6) |  |  |  |
| Total Credit Hours Required in Ph.D. Program (60) |  |  |  |

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Chair Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_