

Planning Guide
Science
Master of Education Degree
School of Teacher Education and Leadership



Name of Candidate: _____ USU A#: _____

I. Core Requirements (15 credits)	Credit	Grade	Completion Date	Nature of Credit*
TEAL 6410 Social Foundations of Education (3)				
EDUC 6570 Intro to Educational and Psychological Research (3)				
TEAL 6710 Diversity in Education (3)				
TEAL 6150 Foundations of Curriculum (3)				
TEAL 6190 Theories of Learning and Models of Teaching (3)				
Total Core Requirement Credits				

II. Science Specialization (6 credits)	Credit	Grade	Completion Date	Nature of Credit*
TEAL 5205/6205 Nature of Science and Engineering for Teachers+ (3)				
TEAL 6265 STEM Practices with a focus on Engineering, Technology, and PBL+ (3)				
Total Specialization Credits				

III. Department Thesis Credits (6 credits)	Credit	Grade	Completion Date	Nature of Credit*
TEAL 6970 Thesis Credits (6)				
Total Thesis Credits				

IV. Recommended Electives (9 credits minimum)	Credit	Grade	Completion Date	Nature of Credit*
Additional discipline-specific electives or independent study as suggested by advisor. (+ Required courses for the Elementary STEM Endorsement)				
<u>Highly Recommended for Elementary Teachers:</u>				
TEAL 5215/6215 Energy in STEM Education+				
TEAL 6225 Matter in STEM Education+				
TEAL 6245 Force in STEM Education+				
<u>Recommended for Secondary Teacher:</u>				
ASTE 6440 Technology and Society: Linking CTE with STEM				
GEO 5680/6680 Paleoclimatology				
BIOL 5250 Evolutionary Biology				
Total Elective Credits				
TOTAL CREDIT HOURS REQUIRED IN M.S. PROGRAM (36)				

***Nature of Credit Code:** If USU credit, leave blank. If Transfer credit, insert T (To be approved by graduate advisor - Normally 6, but up to 12 credits with prior approval).

To apply for the Elementary STEM Endorsement, teachers must complete and submit the application located on the Utah State Board of Education website. For details see: <https://www.schools.utah.gov/file/07cec850-4ae3-4fea-98bc-d1f8fda7639b>

In addition to the requirements for this degree, students seeking the Elementary STEM Endorsement will need to complete an additional course TEAL 6525: Data Analysis & Problem Solving.+