



**SOUTH DAKOTA BOARD OF REGENTS**  
**ACADEMIC AFFAIRS FORMS**  
**Substantive Program Modification Program**

<b>UNIVERSITY:</b>	<b>University of South Dakota</b>
<b>CURRENT PROGRAM TITLE:</b>	<b>Science, Technology or Math (STEM) specialization; Elementary Education, M.A. and Secondary Education, M.A. [U.MA.ELED-STM and U.MA.SEED-STM]</b>
<b>CIP CODE:</b>	<b>13.1202</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Curriculum &amp; Instruction</b>
<b>UNIVERSITY DIVISION:</b>	<b>School of Education</b>

**University Approval**

*To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.*

Elizabeth M. Freeburg

3/20/17

Vice President of Academic Affairs or  
 President of the University

Date

**1. This modification addresses a change in (place an "X" in the appropriate box):**

- |   |  |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline     | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program      |
| <input checked="" type="checkbox"/> Program name                          | <input checked="" type="checkbox"/> Existing specialization      |
| <input type="checkbox"/> CIP Code   | <input type="checkbox"/> Other (explain below)                   |

**2. Effective date of change:**

**3. Program Degree Level (place an "X" in the appropriate box):**  
 Associate  Bachelor's  Master's  Doctoral

**4. Category (place an "X" in the appropriate box):**  
 Certificate  Specialization  Minor  Major

**5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):**  
 On the effective date for all students  
 On the effective date for students new to the program (enrolled students will graduate from existing program)

**Proposed new name:** Specialization in Science, Technology and Math **Education** (STEM)

*Reminder: Name changes impact require updating any related articulation agreements, site approvals, etc.*

**6. Primary Aspects of the Modification (add lines as needed):**

*Existing Curriculum*

**Specialization in Science, Technology or Math (STEM), Plan B in Elementary Education, M.A. or Secondary Education, M.A.**

Pref.	Num.	Title	Cr. Hrs.
EDER	761	Graduate Research & Design	3
ELED/SEED	773	Research-based Methods in Curriculum and Instruction	3
ELED/SEED	776	Theory/Pedagogy Diverse Learn	3
ELED/SEED	794	Internship	3
Science, Technology or Math advisor approved elective			12
Science, Technology or Math advisor approved elective (TET 715 recommended)			3
Elective courses (LT 712 recommended)			3
<b>Subtotal</b>			<b>30</b>
Select 15 graduate credits of Science, Technology or Math with approval from advisor (minimum 6 of these credits in ELED, TET or SEED). PDC students please work closely with your advisor to complete the requirements within the 15 month program. PDC students need to enroll in EDFN 755 in place of the elective and EDFN 775 for an approved substitution for ELED 794. Note: Plan A (thesis) also available. Four credit hours of thesis are required in lieu of an elective.			
Total number of hours required for specialization			15
Total number of hours required for degree			30

*Proposed Curriculum (highlight changes)*

**Specialization in Science, Technology or Math Education (STEM), Plan B in Elementary Education, M.A. or Secondary Education, M.A.**

Pref.	Num.	Title	Cr. Hrs.
EDER	761	Graduate Research & Design	3
ELED/SEED	773	Research-based Methods in Curriculum and Instruction	3
Move to electives			
ELED/SEED	794	Internship	3
Delete			
ELED/SEED	700	STEM Methods 1	3
ELED/SEED	710	STEM Methods 2	3
ELED/SEED	720	Designing Projects & Environments in STEM Education	3
Delete			
Elective courses (ELED/SEED 776, LT 712, LT 716, LT 731, TET 732, TET 766; also, any graduate level math and science courses will be accepted should the students be qualified and interested to take such courses.)			12
<b>Subtotal</b>			<b>30</b>
Select 15 graduate credits of Science, Technology or Math with approval from advisor (minimum 6 of these credits in ELED, TET or SEED). PDC students please work closely with your advisor to complete the requirements within the 15 month program. PDC students need to enroll in EDFN 755 in place of the elective and EDFN 775 for an approved substitution for ELED 794. Note: Plan A (thesis) also available. Four credit hours of thesis are required in lieu of an elective.			
Total number of hours required specialization			15
Total number of hours required for degree			30

**7. Explanation of the Change:** STEM has become more of a disciplinary field with pedagogical implications rather than just taking science, technology, and math courses. This change, perhaps most importantly, is to address and be responsive to the direction our state and school district partners (especially Vermillion) are heading.