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# Elementary STEM Endorsement

## *Application for the Utah State Board of Education*

### Applicant Information

Name: \_\_\_\_\_ CACTUS ID#: \_\_\_\_\_

E-mail: \_\_\_\_\_

### Purpose

The purpose of Utah's Elementary STEM Endorsement is to integrate science, technology, engineering, and mathematics content areas through the inclusion of sound classroom pedagogy, embedded authentic communication, and reflection on relevant standards and practices. The course frameworks and microcredential stacks are designed to ensure that practicing K-6 educators gain the knowledge and skills needed (a) to deepen student learning in STEM disciplines, (b) to make natural connections between these disciplines, (c) to promote authentic learning experiences for students, and (d) to promote college and career awareness of STEM opportunities.

### Who May Earn the Endorsement

The Utah Elementary STEM Endorsement is intended for K-6 educators and may be added to a Utah Educator License that contains an Elementary or Special Education area of concentration.

### Select Endorsement Type: (Please check one)

- This application is for a Professional Elementary STEM Endorsement.
- This application is for an Out of State Licensure Applicant.

### Instructions for Completing the Application:

1. Complete the Prerequisite Requirements Section of the application by **filling in the table** demonstrating how you have met the prerequisite requirements.
2. Complete the Elementary STEM Endorsement Application by filling in the table demonstrating how you have completed at least one option for each of the 3 requirement areas.
3. Email completed application and required documentation to [licensing@schools.utah.gov](mailto:licensing@schools.utah.gov). Attach documentation to the email (e.g., MIDAS Transcript, certificates) and submit necessary university transcripts to demonstrate completion of both the prerequisites, if applicable, and the endorsement requirements.

## PREREQUISITE REQUIREMENTS

Educators seeking to earn an Elementary STEM Endorsement must first complete either an Elementary Science Endorsement or an Elementary Mathematics Endorsement *or* show completion of a combination of six courses from these two endorsements (see graphic). All courses must have grades of C or better.

<b>Elementary Science Endorsement</b>	<b>Elementary Mathematics Endorsement</b>
Nature of Science and Engineering	Mathematics for Teaching K-6 Numbers and Operation
Systems in Science	Mathematics for Teaching K-6 Rational Numbers and Proportional Reasoning
Matter and Energy in Science	Mathematics for Teaching K-6 Geometry and Measurement
Cause and Effect in Science	Mathematics for Teaching K-6 Algebraic Reasoning
Stability and Change in Science	Mathematics for Teaching K-6 Data Analysis and Problem Solving
Classroom Practice in Science	Mathematics for Teaching K-6 Assessment and Intervention

## Prerequisite Requirements Section

Complete one of the following three columns by selecting the appropriate box or filling in the appropriate information to demonstrate completion of a combination of six courses from the Elementary Science and Elementary Mathematics Endorsements. Provide university transcripts for the combination of six courses if this is the option selected to fulfill the prerequisite requirements section.

<p><b>Elementary Science Endorsement</b></p> <p><input type="checkbox"/></p>	<p><b>Elementary Mathematics Endorsement</b></p> <p><input type="checkbox"/></p>	<p><b>List of Six Completed Courses from the Elementary Science or Mathematics Endorsements</b></p> <ol style="list-style-type: none"> <li>1. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li>   <li>2. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li>   <li>3. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li>   <li>4. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li>   <li>5. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li>   <li>6. University _____ Course Title _____ Course Code _____ Year _____ Grade _____</li> </ol>
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## ENDORSEMENT REQUIREMENTS:

The Elementary STEM Endorsement has the following three requirement areas:

- a) STEM for Teaching K-6 Science
- b) STEM for Teaching K-6 Technology and Engineering
- c) STEM for Teaching K-6 Mathematics

Each requirement may be earned by taking university courses or by completing a stack of Microcredentials.

### If Taking Utah-Based University Courses Approved by USBE:

1. Courses are to be graduate level and at least 3 credits.
2. Courses are to be taken within six (6) years of the date of this application.
3. University courses are reviewed and approved by agreement with USBE.
4. Applicants must earn a C or higher in the course(s) taken.

### Endorsement Requirement Areas Checklist

<b>Requirement Area</b> (Aligned Area Competency hyperlink to more details below)	<b>University Course</b> <u>Evidence:</u> If this option is used the application must include a transcript for each course below	<b>Microcredential Stack</b> <u>Evidence:</u> If this option is used the application must include the PDF copy of the MIDAS Transcript for each stack listed below
<b>STEM for Teaching K-6 Science</b> <a href="#">competencies</a>	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: <a href="#">STEM for Teaching K-6 Science</a>
<b>STEM for Teaching K-6 Technology and Engineering</b> <a href="#">competencies</a>	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: <a href="#">STEM for Teaching K-6 Technology and Engineering</a>
<b>STEM for Teaching K-6 Mathematics</b> <a href="#">competencies</a>	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: <a href="#">STEM for Teaching K-6 Mathematics</a>

## Applicant's Signature

I, \_\_\_\_\_, certify that the information contained in this application is true.

- I have submitted any required MIDAS transcripts.
- I have submitted original transcripts. Please note that copies are not acceptable. **OR** I have requested electronic transcripts to be sent directly from the university/college to [transcripts@schools.utah.gov](mailto:transcripts@schools.utah.gov)

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- The application is complete and approved.
- The application is incomplete and not approved for the following reason(s):

ENDORSEMENT SPECIALIST: \_\_\_\_\_ Date Reviewed and Returned to Licensing: \_\_\_\_\_