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Elementary Science Endorsement

Application for the Utah State Board of Education

Applicant Information

Name: _____ CACTUS ID#: _____

E-mail: _____

Purpose

The courses of the Elementary Science Endorsement (ESE) are centered around the idea that in order for teachers to understand scientific ways of thinking and support this in students they must experience science learning in authentic and experiential ways. Without this immersive learning experience, teachers can be limited in their ability to transfer research knowledge into instructional classroom practice. In other words, the ESE is meant to provide an educative learning journey for participating teachers that provides new ways and new contexts to experience science. To accomplish this, the ESE begins with the *Nature of Science and Engineering* Requirement Area, where teachers engage in experiences that support learning with and about scientific literacy. This includes deepening content knowledge, experiencing authentic science sensemaking, integrating science conceptual ideas with classroom practice, and engaging in explicit and reflective discourse about science learning and science instruction. Through the next four ESE Requirement Areas, teachers delve more deeply into scientific ideas and how they are holistically developed as core ideas, crosscutting concepts, and practices. Simultaneously, teachers develop ways to co-construct these science experiences with their own learners. The ESE culminates with the *Classroom Practices* Requirement Area in which participating teachers experience the process of supporting student sensemaking about scientific ideas and adjusting instruction based on student understanding.

Who May Earn the Endorsement:

The Utah Elementary Science 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 Science Endorsement.
- This application is for an Out of State Licensure Applicant.

Instructions for Completing the Application:

1. Complete the Elementary Science Application by **filling in the table** demonstrating how you have completed at least one option for each of the 6 requirement areas.
2. Email completed application and required documentation to licensing@schools.utah.gov. Attach documentation to the email (e.g., MIDAS Transcript, certificates) and submit necessary university transcripts.

ENDORSEMENT REQUIREMENTS:

The Elementary Science Endorsement has the following six requirement areas:

- a) Nature of Science and Engineering
- b) Systems in Science
- c) Matter and Energy in Science
- d) Cause and Effect in Science
- e) Stability and Change in Science
- f) Classroom Practice in Science

Each requirement may be earned by taking the corresponding University course or by completing a required 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

Requirement Area (Aligned Area Competency hyperlink to more details below)	University Course <u>Evidence:</u> If this option is used the application must include a transcript for each course below	Microcredential Stack <u>Evidence:</u> If this option is used the application must include the PDF copy of the MIDAS Transcript for each stack listed below
Nature of Science and Engineering competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Nature of Science and Engineering
Systems in Science competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Systems in Science
Matter and Energy in Science competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Matter and Energy in Science
Cause and Effect in Science competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Cause and Effect in Science
Stability and Change in Science competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Stability and Change in Science
Classroom Practice in Science competencies	University _____ Course Title _____ Course Code _____ Year _____ Grade _____	<input type="checkbox"/> Stack of Microcredentials: Classroom Practice in Science

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

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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: _____