



ELEMENTARY SCIENCE ENDORSEMENT

Contacts: Joe B. Wright (SEDC) & Sara McAfee (ICSD)

Overview:

The Elementary Science Endorsement is intended for K-6 teachers who seek to improve conceptual understanding of science & develop deep pedagogical knowledge of three-dimensional instruction. It is recommended that the courses are taken in order. Participants can apply for the USBE Elementary Science Endorsement after successfully completing the six courses. All course work is blended/online in addition to a required field experience in the summer of 2026.

Courses:

Nature of Science and Engineering- This introductory course builds a foundational understanding of the Nature of Science and Engineering.
Fall 2025

Systems in Science- Participants develop a deep understanding of systems at various scales from the universe to Earth's systems.
Spring 2026

Matter & Energy- This course builds on the previous systems course as participants apply matter & energy to interactions within physical & living things.
Summer 2026

Cause and Effect in Science- This course focuses on cause and effect with forces and human interactions with Earth's systems.
Summer 2026

Stability & Change- Participants develop a conceptual understanding that natural systems are usually stable until changes occur from either natural or human caused (anthropogenic) events.
Fall 2026

Classroom Practices in Science- This capstone course allows participants to apply conceptual understanding of science and of three dimensional instruction in their classrooms.
Spring 2027