



Nevada STEM Advisory Council List of Recommended STEM Programs February 2023

NATIONAL INSTITUTE FOR STEM EDUCATION (NISE): **MICRO CERTIFICATE ONLINE COURSES**

PROGRAM OVERVIEW

NISE micro certificate online courses are three-hour asynchronous learning experiences focused on practical, evidence-based instructional strategies. Course options include:

STEM Essentials Series (12 courses)

- *5E Instructional Model*
- *Scientific Investigations*
- *Engineering Solutions*
- *Technology Integration*
- *Argumentation*
- *Claim - Evidence - Reasoning*
- *Cooperative Learning*
- *Project-Based Learning*
- *Questioning Strategies*
- *Addressing Misconceptions*
- *Reading in STEM*
- *Writing in STEM*

Teaching Online Essentials Series (8 courses)

- *Establishing the Virtual Classroom (Part 1/Part II)*
- *Building Community in the Virtual Classroom (Part 1/Part II)*
- *Achieving 21st Century Outcomes in the Virtual Classroom (Part 1/Part II)*
- *Implementing Meaningful Assessment in the Virtual Classroom (Part 1/Part II)*

TARGET GRADES

NISE micro certificate online courses are designed to be applicable and relevant to all grade levels. Educators from PK-16 have benefited from NISE micro certificate online courses.

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

NISE micro certificate online courses are a unique opportunity designed to meet the needs of individual educators, grade level/department teams engaged in collaborative learning, and school/district instructional initiatives for highly, targeted and flexible professional development!

THE PROGRAM'S IMPACT ON STUDENTS

NISE micro certificate online courses are each designed to reinforce and elevate understanding and implementation of high yield strategies statistically proven to engage students and increase academic achievement.

SPECIFIC SKILLS STUDENTS WILL LEARN

NISE micro certificate online course, educators are expected to create an instructional tool (Teacher Tool) that reflects planning or implementation of a specific high yield teaching strategy. Every course includes clearly stated learning outcomes aligned with the course topic.

RESOURCES PROVIDED TO EDUCATORS

Every NISE micro certificate online courses includes: Interactive content; Relevant resources for extending learning; Template for creating a personalized "Teacher Tool"; Digital Professional Learning Portfolio; Digital Badge (when two companion courses are completed); and Transcript

WEBSITE/CONTACT INFORMATION

www.nise.institute

Kyle Cameron / kcameron@nise.institute

281-833-4574