



Nevada STEM Advisory Council List of Recommended STEM Programs February 2023

NATIONAL CERTIFICATE FOR STEM EXCELLENCE (NCSE)

PROGRAM OVERVIEW

NCSE engages organizations in authentic site-based work that emphasizes a system-wide commitment to and growth in STEM strategies and 21st century skills. The NCSE journey guides organizations through a process of reflection, analysis, planning, and implementation. The three phases of the NCSE include Plan, Implement, and Sustain. Emphasis is placed on developing or refining systems that enhance student experiences with STEM education. The NCSE process is facilitated virtually by a STEM Leadership Coach who is a veteran STEM educational leader. NCSE learning and tasks occur within the context of your site and your coach differentiates the experience based on your organizational needs. The NCSE supports organizations in achieving a system-wide culture of STEM and quality integrated STEM instruction.

TARGET GRADES

NCSE is designed for schools, districts, and organizations seeking to enhance STEM learning systems at all grade levels to improve student engagement and achievement.

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

The National Certificate for STEM Excellence (NCSE) is a coach supported process that prepares schools, districts, and organizations to transform learning culture and raises student achievement through reflection, analysis, planning, and implementation of intentional STEM learning systems.

THE PROGRAM'S IMPACT ON STUDENTS

Students who attend sites that have earned the National Certificate for STEM Excellence (NCSE) experience: a system-wide culture of STEM; quality, integrated STEM instruction; hands-on, minds-on learning; and learning with community STEM partners.

SPECIFIC SKILLS STUDENTS WILL LEARN

NCSE is firmly grounded in authentic tasks. A core STEM Leadership Team from the organization collaborates with a virtual NCSE Coach to create goals and actions that support or elevate organization-wide STEM systems aligned to instructional impact. STEM Leadership Teams will learn deeply about their site's current and desired state as they work through three phases of learning and action: Plan, Implement and Sustain.

RESOURCES PROVIDED TO EDUCATORS

National Certificate for STEM Excellence (NCSE) sites receive: Virtual coaching; Ongoing feedback NISE Professional Learning Portal; Interactive content; Templates; Processes and strategies, Data tools; STEM Teacher Action Protocol; Digital portfolio; Banner and plaque; Digital badges for email signatures and website(s); NCSE professional network; Additional six hours of virtual learning.

WEBSITE

www.nise.institute

CONTACT INFORMATION

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