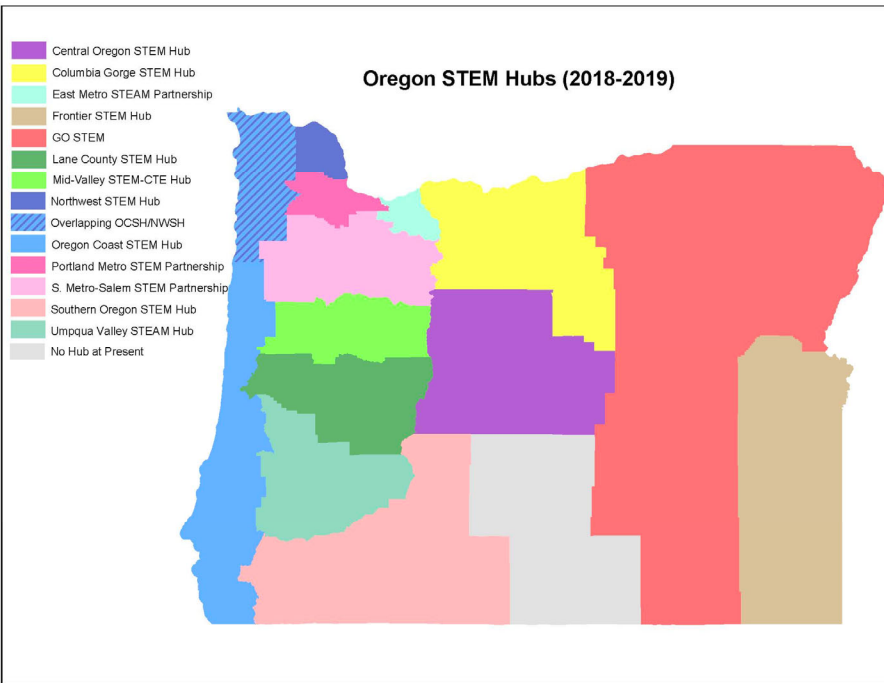


Faculty Senate  
2.23.2021

# STEM Educational Leadership Certificate (18cr) Proposal

Adele Schepige, Education and  
Leadership



# STEM Educational Leadership Certificate

2016 Oregon STEM Education Plan

- a) STEM readiness and proficiency
- b) STEM for ALL
- c) STEM Hubs
- d) Four Oregon STEM goals- #3 is

**Continuously improve the effectiveness, support, and the number of formal and informal P-20 STEM educators.**

Aligns with  
WOU strategic  
priorities

4. Academic program initiatives.

4.1 Promote academic array that provides distinctive, high- quality programs. **(No STEM leadership certificates in Oregon)**

5. Identify and support activities, programs and practices that promote excellence in all academic programs.

5.2 Create opportunities for all graduate programs to include **high- impact activities** that support attainment of graduate learning outcomes. **(Multiple opportunities for high impact practices in certificate program.)**

# STEM Educational Leadership Certificate

## Mission

- **Support the development of leaders in STEM education** by promoting in-depth understanding of current STEM related standards, the need for access and equitable opportunities in STEM for all students, and instructional practices with a particular focus on research and evidence-based practices. Provides opportunities and experiences to gain advanced expertise and skills to be **better equipped for greater effectiveness** in their roles as leaders of STEM in educational settings. **Prepare educators to take their place at the table as a STEM educational leader and advocate.**

# Certificate Learning Outcomes

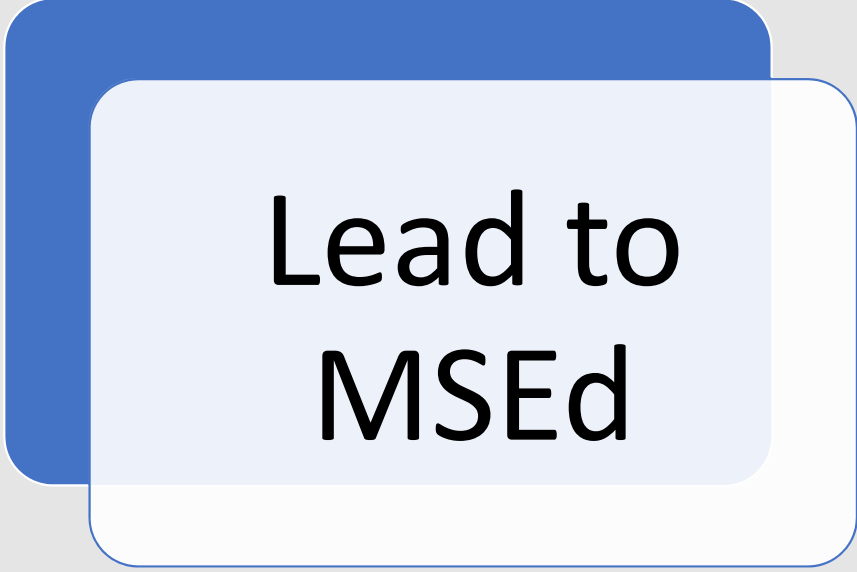
1. **Deepen foundational knowledge** of STEM policies and STEM pedagogical content knowledge expertise.
2. **Develop STEM leaders who create, support and advocate** for environments for STEM learning focusing on equity and opportunities for all.
3. **Improve ability to use best practices in STEM professional development** to enhance coaching and facilitation skills, and design innovative professional learning opportunities in STEM.
4. **Exemplify professional leadership dispositions** and reflective practice while contributing to the field of STEM education.

The graphic features a horizontal bar divided into three sections: a blue square on the left, a dark grey rectangle in the center containing the text, and a light grey square on the right.

## STEM Educational Leadership Certificate

A blue rounded rectangle with a white rounded rectangle inside, containing the text "Standalone".

**Standalone**

A blue rounded rectangle with a white rounded rectangle inside, containing the text "Lead to MSEd".

**Lead to  
MSEd**

WOU: Graduate  
STEM  
Education

**MSEd STEM  
Education**

- ✓ 4 required STEM Ed courses (6cr)
- ✓ 2 STEM Ed elective courses (6cr)
  
- ✓ 2 General elective courses (6cr)

**STEM Educational  
Leadership Certificate  
(18cr.)**

- ✓ Uses 2 of 4 required
  
- ✓ Uses 2 STEM Ed elective slots (new ED690 STEM leadership class and ED609 practicum)
  
- ✓ Uses two general elective slots for focus area (STEM, curriculum design, education technology, creativity/innovation)