EDSC 542S Advanced Methods in Teaching Science

This course is intended for Multiple Subject credentialed teachers and those working towards the Multiple Subject credential who would like to earn authorization to teach Foundational-Level General Science (middle school science).

This advanced methods course will prepare you for the challenges and the joys of teaching middle school science!

Course Objectives

- Incorporate research-based instructional strategies into the curriculum.
- Create lessons that include reading and synthesizing the ideas of multiple texts in the content area of science.
- Utilize strategies designed to support science vocabulary instruction.
- Promote creative and critical thinking skills that support inquiry learning in the classroom.
- Identify individual student needs in order to differentiate instruction to support science learning for all students.
- Incorporate strategies that support alignment to the content standards, CCSS, NGSS, and the new science framework.
- Support students as they use the language of science to write and speak about science content.
- Evaluate science content knowledge at various levels (entry level, progress monitoring, summative assessment)

Pre-Requisites to Enroll (to be verified by instructor):  
1. YOU MUST HOLD A MULTIPLE SUBJECT TEACHING CREDENTIAL OR HAVE SUCCESSFULLY COMPLETED AT LEAST THE FIRST SEMESTER OF THE MULTIPLE SUBJECT CREDENTIAL PROGRAM, AND  
2. YOU MUST HAVE PASSED AT LEAST ONE SUBTEST OF THE CSET FOUNDATIONAL-LEVEL GENERAL SCIENCE CREDENTIAL (i.e., CSETS 118 AND 119) OR HAVE THE EQUIVALENT TO A SCIENCE MINOR.

Required Texts: