Science Methods – C896
Course Feedback

Overview

Science Methods provides an introduction to teaching methods specific to science for undergraduate students seeking initial licensure or endorsement in secondary biology, chemistry, geosciences, physics, or middle grades general science. Course content focuses on the design and teaching of standards-based lessons using the three dimensions of science (science and engineering practices, crosscutting concepts, and disciplinary core ideas) and the appropriate integration of technology into those lessons. Students in this course work within their content areas to evaluate, enhance, and plan appropriate science instruction. This course includes laboratory safety training and certification, which includes safe laboratory practices and procedures for science classrooms and the proper use of personal protective equipment. A prerequisite for this course is Instructional Planning and Presentation.

Competencies

▲ Three-Dimensional Learning
   The graduate analyzes connections among the three dimensions of science instruction—disciplinary core ideas, crosscutting concepts, and science and engineering practices—to prepare and plan for instruction.

▲ Educational Technology
   The graduate integrates technology into science activities to support student engagement and content mastery.

▲ Assessment
   The graduate develops assessment strategies that measure three-dimensional science learning to determine the effectiveness of teaching and learning experiences.

▲ Lesson Planning
   The graduate develops lessons that integrate the three dimensions of science with applicable technologies to connect scientific concepts and phenomena.

▲ Safety and Ethics in the Science Learning Environment
   The graduate develops plans for the use, storage, and maintenance of science materials and protective equipment and for the care of living organisms to comply with district, state, and federal safety, ethical, and legal standards for science teachers.

▲ Emergency Response Plans
   The graduate establishes an emergency response plan to prepare for potential emergency situations in the science learning environment.

Learning

https://my.wgu.edu/courses/course/10020022
Getting Started

Welcome to Science Methods! In this course, you will learn a variety of strategies that you can implement in teaching middle school and secondary science. In particular, make sure to focus on teaching and learning through the three dimensions of science. This course is delivered in the WGU learning platform, which incorporates e-textbook access, videos, and other interactive learning components. We encourage you to engage in the interactive activities (like knowledge checks) to remember and practice what you are learning. It is recommended that you complete the readings and activities in the order listed in the pacing guide. Your competency will be demonstrated by completing a performance assessment.

Assessments

- **Performance Assessment: Science Methods**
  - Status: Not Attempted
  - Code: FGP1

Course Information

- The Writing Center
- WGU Library
- Accessibility Policy
- Student Success Center
- Teaching Dispositions Statement

Course Instructor

- pedagogy@wgu.edu

Announcements

Course Tips