Overview

Elementary Mathematics Methods helps students learn how to implement effective math instruction in the elementary classroom. Topics include differentiated math instruction, mathematical communication, mathematical tools for instruction, assessing math understanding, integrating math across the curriculum, critical thinking development, standards-based math instruction, and mathematical models and representation.

Competencies

- **Differentiated Mathematics Instruction**
  The graduate plans differentiated instruction in mathematics education to support the unique needs of diverse learners.

- **Mathematical Communication**
  The graduate integrates effective mathematical communication strategies into the development of mathematics education for elementary students.

- **Mathematical Tools**
  The graduate integrates tools that enhance student mathematics learning.

- **Assessment**
  The graduate evaluates student learning to measure elementary students' mathematical achievement and to plan further instruction.

- **Interdisciplinary Learning Experiences as Context for Math Instruction**
  The graduate creates interdisciplinary learning experiences as contexts for mathematical instruction.

- **Instructional Strategies**
  The graduate recommends various instructional strategies that encourage students' development of critical thinking, problem solving, and performance skills in mathematics.

- **Mathematical Learning Research**
  The graduate applies mathematical learning research as a foundation for instruction.

- **National, State, and Local Mathematics Standards**
  The graduate integrates national, state, and local mathematics standards, learning outcomes, benchmarks, and objectives in the development of mathematics education for elementary students.

- **Mathematical Representation**
  The graduate applies models and representations to support and enhance the interpretation, organization, recording, and communication of mathematics.

Getting Started

Welcome to Elementary Math Methods! In this course you will learn a variety of teaching strategies that you can implement in teaching elementary and middle school math. In particular, make sure to focus on the theory of constructivism and its practical application. Throughout the course you will learn strategies to help you ensure your instruction engages your students and meets the needs of a variety of learners. You will learn how to design learning segments with a clearly defined central focus so that the important understandings and core concepts that you want students to develop are clearly articulated and aligned to standards and learning objectives. This course is delivered in WGU’s module-based learning platform, which incorporates textbook access, videos, and a variety of other interactive learning components. We encourage you to engage in the interactive components (like Learning Checks) to remember and practice what you are learning. Your competency will be demonstrated by completing both an objective assessment and a performance assessment. In the performance assessment you will demonstrate that you can create a lesson plan based on the constructivist principles taught in this course.

Note: You must enable cookies on your web browser in order to watch the videos in this course.

Assessments

- **Pre-Assessment: Elementary Mathematics Methods**
  - STATUS: Not Attempted
  - # OF ITEMS: 56
  - TIME ALLOCATED: 150 minutes
  - CODE: PDUC

- **Objective Assessment: Elementary Mathematics Methods**
A score of Competent or Exemplary is required to pass all assessments. Passing a preassessment does not guarantee you will pass the high-stakes assessment.

On objective assessments, you will be charged a retake fee for the third attempt and every attempt thereafter. For more information, click here.

Course Information

The Writing Center
WGU Library
Student Success Center
Accessibility Policy

Course Instructor

Course Instructor Group

mathsciencemethods@wgu.edu

Announcements

Course Tips

Course Search

Course Chatter