Mathematical Modeling and Applications – C877

Course Feedback

Overview

Mathematical Modeling and Applications applies mathematics, such as differential equations, discrete structures, and statistics to formulate models and solve real-world problems. This course emphasizes improving students’ critical thinking to help them understand the process and application of mathematical modeling. Probability and Statistics II and Calculus II are prerequisites.

Competencies

- **Mathematical Modeling**
  The graduate formulates mathematical models for real-world situations.

- **Mathematical Model Accuracy**
  The graduate critiques mathematical models for accuracy of approach relative to the problem.

- **Mathematical Model Refinement**
  The graduate refines mathematical models to better correspond to information and to support assumptions that are more realistic.

- **Discrete Dynamic Systems**
  The graduate applies discrete dynamic systems to solve real-world problems.

- **Continuous Dynamic Systems**
  The graduate applies continuous dynamic systems to solve real-world problems.

Learning

**Getting Started**

Welcome to Algebra for Secondary Mathematics Teaching! In this course you will learn a variety of strategies that you can implement in teaching secondary algebra content. This course is delivered in the WGU module-based learning platform, which incorporates readings, videos, and a variety of interactive learning components. For the best experience, work through the modules in the order they’re presented. Your competency will be demonstrated by successful completion of a performance assessment.
Assessments
Performance Assessment: Mathematical Modeling and Applications
Status: Not Attempted
Code: IEP1

Student Services
(877) 435-7948
studentservices@wgu.edu

IT Service Desk
(877) 435-7948
helpdesk@wgu.edu

Course Instructor

Announcements

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