This course supports the assessments for Elementary Educators III. The course covers 5 competencies and represents 3 competency units.

Introduction

Course Overview
This course engages pre-service elementary teachers in mathematical practices based on deep understanding of underlying concepts. The course covers important topics in statistics, measurement, and covers geometry from synthetic, transformational, and coordinate perspectives. This is the third course in a three-course sequence.

Watch the following video introduction for this course:

Competencies
This course provides guidance to help you demonstrate the following 5 competencies:

- **Competency 121.3.1: Data Analysis/Statistics**
  The graduate analyzes statistical data using numerical measures and graphical displays in order to summarize data, predict trends, and make inferences.

- **Competency 121.3.2: Geometric Shapes**
  The graduate applies geometric properties of lines, angles, polygons, and circles to classify shapes and solve problems.

- **Competency 121.3.3: Congruence and Similarity**
  The graduate applies principles of congruence and similarity to solve problems.

- **Competency 121.3.4: Transformations**
  The graduate applies transformations to determine congruence and similarity of geometric shapes.

- **Competency 121.3.5: Area, Volume and the Pythagorean Theorem**
  The graduate applies formulas and theorems to find the length, area, and volume of figures and solve problems.

Teaching Dispositions Statement
Please review the [Statement of Teaching Dispositions](#).

Learning Materials

The information in this section will help you succeed in this course.

Learning Resource
The information in this section will help you navigate your learning resources and successfully complete the course.

Pearson's MyMathLab

You must enroll in the learning resource listed in this section which provides prechecks,
homework, and tests to check your understanding. It also contains multimedia resources and the following required e-book:


Use the following instructions to enroll via the "Learning Resources" tab:

1. Go to the "Learning Resources" tab within the course.
2. Click the "Sections" link (under the "Action" column) for the appropriate learning resource.
3. Click "Enroll Now" in the new window.

You will receive an e-mail with access information and important instructions in less than one day. Contact the WGU Learning Resources Department at x3124 or learningr@wgu.edu if you do not receive an email within 24 hours.

Log in to the MyMathLab to begin work on the course of study.

*Formula Sheet*

This formula sheet provides you with a list of the most common formulas found in Math for Elementary Educators I. Use these formulas as you complete your course work. You will be provided with a list of formulas to reference during the exam when needed. However, it is important that you understand the content of the course so that you can quickly recognize which formula(s) you need during your objective assessment. Click this link to download the Formula Sheet for Math for Elementary Educators I.

*Live Sessions*

Course Instructors offer webinars to review task instructions and content with C462 students. These live sessions bring the material to life, offer opportunities for synthesis and analysis, and will assist you in completing the course in a timely fashion. You can find information about and the times of these events on the mentor-created google calendar.

*Pacing Guide*

Below is a suggested timeline for completing your studies. The cohorts (sign up in MyMathLab) follow this timeline.

<table>
<thead>
<tr>
<th>Week</th>
<th>Units</th>
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| 1    | 1) Designing Experiments / Collecting Data  
|      | 2) Displaying Data  
|      | 3) Measures of Central Tendency and Variation |
| 2    | 4) Abuses of Statistics |
Additional Preparations

Purchase a Calculator
Acquire a scientific calculator and familiarize yourself with how to use it. Refer to the Calculator Guidelines in the WGU Student Handbook for details regarding calculators that are acceptable on WGU exams.

Whiteboards
Whiteboards may be used to assist you as you complete the assessment for this course. Paper, or other note taking resources, may not be used during the assessment. For math assessments only, scratch paper can be used only when taking the assessment at an on-site testing center. Please view the following video for more information on how to use a whiteboard:

*Note: To download this video, right-click the following link and choose "Save as...": [download video]*

Assessment Prep

Review the information below before taking your assessment.

Objective Assessment

Congratulations on completing the activities in this course! This course has prepared you to complete the objective assessment. The course instructors suggest you score an 80% or higher on each of the unit posttests before taking the objective assessment.

Work with your program mentor to get approval for taking your assessment.

Before taking your exam, review the formula sheet. Remember, you will be provided with a list of formulas to reference during the exam. However, it is important that you understand the course content so that you can quickly recognize which formula(s) you need during your objective assessment.

Policies
Please review these important policies:

**Accessibility Policy**
Western Governors University recognizes and fulfills its obligations under the Americans with Disabilities Act of 1990 (ADA), the Rehabilitation Act of 1973 and similar state laws. Western Governors University is committed to provide reasonable accommodation(s) to qualified disabled learners in University programs and activities as is required by applicable law(s). The Office of Student Accessibility Services serves as the principal point of contact for students seeking accommodations and can be contacted at ADASupport@wgu.edu.

**Netiquette**

Netiquette Guidelines
Online Netiquette: Guidelines for WGU Students These guidelines are a quick reference source for interacting with fellow students, mentors, and WGU staff. While these guidelines adhere to the standards outlined in the WGU Student Handbook, they are not meant as a replacement for the explicit information presented in the handbook.

**Be professional and respectful:**
- Be civil and kind in your interactions with others.
- Respond to important emails sent to you.
- Be cautious when using ALL CAPS (yelling), sarcasm, and humor
- Be cautious when posting content (pictures, comments)
- Avoid forwarding spam or selling anything.
- Keep comments related to the topic.
- Be aware that mentors, students, and others live in different time zones.

**Be short, concise, and readable:**
- Use sans serif fonts (e.g., Arial, Helvetica) with a point size of 12 or higher.
- Use acronyms cautiously. For example, common acronyms such as FAQ and RSVP are fine; however, unknown acronyms like UCET or USOE should be spelled out.

**Be credible:**
- Cite references and sources such as web links, articles, books, etc., when possible.
- Re-read your emails to clarify and ensure it sends the intended “message.”

**Be safe:**
- Keep personal information private to avoid identity fraud.
- Keep other’s information private (WGU students, companies, etc.)