

# MATH 125Z: Mathematics for Elementary Teaching

Fall 2011

Monday, 6:30 – 9:30pm

Room #: 232, Hurd Academic Complex

Instructor: Kristin Yudt

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**Text:** *Mathematical Reasoning for Elementary Teachers*, 9<sup>th</sup> edition, Musser, Burger, & Peterson, Wiley & Sons Publishing

**Office Hours:** Monday, 6:00 – 6:30pm (other times by appointment)

**Course Overview:** This course is specifically designed for students pursuing a career in elementary education. The purpose is to provide the mathematical background necessary for teaching the basic concepts of mathematics and problem-solving strategies with confidence and imagination.

- Course Goals:**
1. Use the mathematics content to model and solve realistic problems.
  2. Use mathematical reasoning to find patterns, make and test conjectures, and create simple proofs, or find counterexamples to show a conjecture is not true.
  3. Communicate mathematically using the appropriate notation, words, graphs, or tables.
  4. Make connections between the mathematics learned and other disciplines and areas of his/her life and apply the mathematics learned to other areas.
  5. Use technology as a tool to solve problems.
  6. Use manipulatives to make mathematical concepts more concrete.
  7. Work well as part of a team to define and complete projects.

**Course Expectations:**

- Arrive class on time and prepared with a pencil, notebook, textbook, and a calculator.
- Read the textbook and complete the assigned homework problems (which will prepare you for the daily quizzes and in-class tests).
- Respect your classmates and instructor. Everyone has the right to learn without interruptions.
- Contact the instructor with any questions, comments or concerns prior to the start of class.

**Grading:** You are responsible to keep track of your own progress. Grades will be weighted according to the following percentages:

Tests	30% (10% each)
Homework	20%
Activity Presentation(s)	15%
Daily Quizzes (drop two lowest)	10%
Final Exam	25%

**Attendance:** Your attendance is essential to your success in this course. Daily quizzes will begin promptly at 6:30pm, and again following the break. There will be no make-up quizzes for absences or tardiness, and a score of zero will be issued.

**Class Structure:** Each class will consist of lecture, group work, and individual work.

### **Mathematics Department Academic Honesty Policy**

The Mathematics Department supports and is governed by the **Academic Honesty Policy of Moravian College** as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

You may use your class notes and textbook for all homework assignments. When you use the ideas or thoughts of others, however, you must acknowledge the source (i.e., Problem #10 – help from Tutor Center). Show your work on each and every problem. You are responsible for understanding and being able to explain the solution of all assigned problems.

All in-class quizzes and tests are to be completed by you alone without the aid of books, study sheets, notes, or formula sheets unless specifically allowed by me for a particular assessment.

### **Reasonable Accommodations for Students with Disabilities**

Students with disabilities who believe they may need accommodations in class are encouraged to contact the Learning Services Office as soon as possible in order to increase the likelihood of such implementation in a timely fashion.