

MATH 125Z: Topics in Mathematics for Teaching

Spring 2016
Monday 6:30-9:30pm
Room #: 105, Comenius

Instructor: Kristin Yudt
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Text: *Mathematical Reasoning for Elementary Teachers*, 10th edition, Musser, Burger, & Peterson, Wiley & Sons Publishing

Office Hours: Monday, 6-6:30pm, (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%
Lesson Notes	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: This is a blended learning class with a combination of both in-class meetings and online lessons. Each in-class session will consist of lecture, group work, and individual work including tests and the final exam. Each online video lesson will consist of guided notes, homework practice, and quizzes.

For online video lessons, use the One Drive link emailed to you on the first day of class.

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.

Tutoring Opportunities

Beginning the second week of class, the Mathematics and Computer Science Department offers tutoring Monday through Thursday 5:30-8:30pm in PPHAC 238. This is free drop-in tutoring and does not require an appointment.

Reasonable Accommodations for Students

The Academic Support Center houses Disability Support and Greyhound Tutoring on the first floor of Monocacy Hall and can be reached at [610-861-1401](tel:610-861-1401). Greyhound Tutoring provides course-specific tutors to Moravian students, free of charge. If you would like to work with a Greyhound Tutor to boost your academic success, please request a tutor through <http://bit.ly/NeedTutorMC> (case-sensitive). Plan ahead! It takes 2-3 business days to connect you with a tutor. Students who wish to request accommodations in this class for a disability should contact the Academic Support Center, located on the first floor of Monocacy Hall (extension 1401).

Accommodations cannot be provided until authorization is received from the Academic Support Center.