

## Math 310 Summer 2008

Basic Concepts of Geometry, Probability & Statistics

**Instructor:** Brittany Noble, M.S.

**Office:** SN 110

**Office hours:** Tuesdays and Thursdays 3-3:50pm & by appointment

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**Course Objectives:** Our goal is to prepare students to become successful in teaching elementary and middle school mathematics. To that end, we aim to help students:

1. acquire a deeper understanding of the basic concepts of geometry and descriptive statistics needed to teach in the elementary and middle schools.
2. improve their critical thinking and problem-solving skills.
3. expand their enthusiasm for learning and teaching mathematics.
4. become more skilled in explaining mathematics to others and in engaging others to learn mathematics.
5. learn to assess what mathematics others understand.
6. respond effectively to mathematics questions posed by others.

**Text:** *A Problem Solving Approach to Mathematics for Elementary School Teachers* by Billstein, Libeskind & Lott. **Material:** We will cover Chapter 7 (7.1,7.2,7.4), Chapter 8 (8.1,8.2), Chapter 9 (9.1–9.4), Chapter 10 (10.1–10.4), Chapter 11 (11.1–11.5), Chapter 12 (12.1, 12.2).

**Additional materials:** A compass and protractor will be needed for this course. They may be purchased at the Matador Bookstore. You do not need a calculator for this class. Calculators will not be allowed on quizzes, midterm exams, or the final exam.

**Attendance** is an essential part of this course. Attendance means being on-time and not leaving the classroom before the end of the lecture. *Cell phones and pagers must be turned off.* **University drop/add policy:** I cannot drop students, so it is your responsibility to drop the class if you do not intend on finishing it.

**Exams:** There will be three in-class examinations and a comprehensive common final on **Tuesday July 8**. There will be **no makeups on tests or quizzes**. In case of an emergency, contact me immediately. Be prepared to provide evidence of the emergency.

**Homework:** We will have a Homework Quiz every class meeting. Questions will be taken directly from the assigned homework. Other homework assignments may be assigned as needed. **No late homework will be accepted.**

**Grading:** I will use the  $\pm$  grading system and will compute your grade as follows:

three in-class exams 15% each (tentative dates: 6/4, 6/20, 7/1)

homework 10%

quizzes 10% (tentative dates: 5/29, 6/11, 6/18, 6/25, 7/3)

classwork/participation 5%

final exam 30% (7/8)

TOTAL 100%