

Math 200 Math for Elem School Teachers Fall 2025

Instructor: Terra Stamps Prairie State College

Prerequisites: Math 093 and Geometry with a C or better or equivalent

In Person Office Hours: Mon 12:30-2, Wed 11:30-1, Tues & Thurs 11:30-12:30 & by appointment

Virtual Office Hours: by appointment only [via google meet](#)

Email: tstamps@prairiestate.edu **Office:** 2301 **Website:** www.terrastamps.com

Credit: 4 hours

Course Type: Hyflex

Meeting Time and Location: Tues & Thurs 12:30-2:10pm Room 2625

Text: A Problem Solving Approach to Mathematics for Elementary School Teachers, Billstein, Boschmans, Libeskind, & Lott, 13th edition

Calculator: A scientific calculator is required for this course. I recommend either a TI-83 or TI-84 graphing calculator or a TI-30XS Multiview scientific calculator.

MyLab: This course will use MyLab Math for online homework & quizzes. You are required to purchase an access code to utilize this software. The access code can be purchased from the PSC bookstore or directly from [Pearson Publishing](#). The class code is **stamps44156**.

Course Description: This course covers topics such as problem solving, bases other than ten, estimations, mental math, number systems and operations on these number systems using algorithmic and non-algorithmic techniques. This course satisfies the Illinois teaching certificate prerequisite. This is a content course, not a methods course in teaching mathematics.

Course Goals/Objectives:

- To understand the theories behind elementary mathematics.
- To develop the ability to conceptualize mathematics at the elem. level.
- To develop strong problem solving skills and convey the importance of teaching these skills at all levels of mathematics curriculum.
- To understand the algebraic properties underlying elementary mathematics.

Grading Scale: 90%-100% A 80%-89% B 70%-79% C 60%-69% D 0%-59% F
(Grades will be rounded to the nearest integer percent.)

Grading (All grades will be posted in D2L):

- 4 tests worth 50 points each for a total of 200 points (47% of your grade)
- 12 quizzes worth 5 points each (I will drop your lowest 2 quiz grades.) for a total of 50 points (12% of your grade)
- 22 Homework Sections worth 2.5 points each (I will drop your lowest 2) for a total of 50 points (12% of your grade)
- 5 From The Classroom (FTC) assignments worth 10 points each for a total of 50 points (12% of your grade)
- 1 comprehensive final exam worth 75 points (18% of your grade)

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- Total number of points possible is 425 points

Accommodations: Your success is important to us. Prairie State College seeks to maintain academic standards while providing equal access and support services to students who are able to benefit from college-level work, have the commitment to succeed, and have a documented disability. Students with disabilities, who need accommodations, can learn more by contacting Shelley Tekeste, Access & Disability Coordinator at (708) 709-3755 or email disabilityservices@prairiestate.edu. Lastly, if you require special accommodations for the observance of a religious holiday, please notify me during the first week of the semester.

D2L: Videos, lecture notes, and assignments for each week will be posted in your D2L content area. I will post reminder announcements each week. Make sure you have the Brightspace app on your phone so you will get alerts when I post announcements and grades. The assignments are also posted on my website www.terrastamps.com.

Tests: There will be 4 tests each worth 50 points. You will be able to replace your lowest test grade with 2/3 of your final exam score (if it helps). Tests will be available in on my website and in D2L on Tuesday at 12am on the week when they are assigned. The worked tests are to be scanned and uploaded to the appropriate D2L assignment folder on or before the due date (Thurs at 11:59pm). Since the tests are available for 3 days, I do **not** give make-up tests. However, if you should miss **one** exam, I will replace the missing test with 2/3 of your score from the final exam. **Any additional exams that are missed will result in a grade of a zero.** This grade of zero may not be regarded as your lowest test grade.

Quizzes: There will be 12 quizzes worth 5 points each. All quizzes will be done in MyLab. You will have 2 attempts in to get the best possible score on each quiz. Quizzes are always due on the Saturday of the week they are assigned by 11:59pm. I will drop your lowest two quiz grades at the end of the semester; thus, quizzes will ultimately count the same as a test.

Homework: Practice is essential in the mastery of mathematics. There are 22 sections of homework assigned in MyLab, but only 20 will be counted in your grade. Each section is worth 2.5 points which will be awarded to any homework section that has a score of 75% or higher. Homework points are all or nothing. If you score below 75%, you get 0 points for that section. If you score 75% (or any score higher) you get 2.5 points for that homework section. You will have unlimited attempts on each homework section. All homework is due by 11:59pm on Saturday Dec 6, 2025. It is in the best interest of your grade to keep up with the homework assignments throughout the semester.

From the Classroom (FTC): There will be 5 "From the Classroom" assignments worth 10 points each. You will have approximately 2 weeks to complete these assignments. FTC assignments will introduce you to real questions from children. These assignments will require you to show work. They will be turned in by uploading them to the appropriate D2L assignment folder on or before their due date.

Academic Honesty: In a Math class, it is extremely important that the work you present to your instructor is genuinely something that you have produced. Relying heavily on other people and/or technology can create a false sense of achievement that ultimately leads to failure on quizzes and tests when those resources are no longer available. Part of my role as instructor is to communicate to you in what situations the use of technology, such as calculator, website or app, is acceptable, and when it is not. In general, the use of any technology that allows students to simply type in a problem and have the entire problem solved for them is prohibited.

Any student suspected of academic misconduct will meet with me, another math faculty member, and/or the Dean of Math & Sciences. The student will be asked to explain their work and rework a similar problem. If the student is unable to complete both tasks, a grade of 0 will be awarded on the assignment and a violation form will be completed and placed in the student's file. After 3 academic misconduct violations the student will face disciplinary actions that may include expulsion.

Miscellaneous: The last day to drop with a grade of W is November 10, 2025. If you need help when I am not available, you can contact the Student Success Center to set up a free tutoring session.

Math 200 Sections and Topics To Be Covered

- 1-1 Mathematics and Problem Solving
- 1-2 Explorations with Patterns
- 2-2 Describing Sets
- 2-3 Other Set Operations
- 3-1 Numerations Systems

- 3-2 Addition of Whole Numbers
- 3-3 Subtraction of Whole Numbers
- 3-4 Multiplication of Whole Numbers
- 3-5 Division of Whole Numbers

- 4-1 Divisibility
- 4-2 Prime and Composite Numbers
- 4-3 Greatest Common Factor and Least Common Multiple
- 5-1 Addition and Subtraction of Integers
- 5-2 Multiplication and Division of Integers

- 6-1 The Set of Rational Numbers
- 6-2 Addition, Subtraction, and Estimation with Rational Numbers
- 6-3 Multiplication, Division, and Estimation with Rational Numbers
- 7-1 Terminating Decimals
- 7-2 Operations on Decimals

- 7-3 Repeating Decimals
- 7-4 Percents
- 7-5 Real Numbers

MATH 200 TENTATIVE COURSE OUTLINE

This is ***tentative*** so please do not be upset if it changes throughout the semester.

Quizzes are always due in MyLab before 11:59pm on the Saturday of the week they are assigned.

Week 1	8/19-8/21	Sect 1-1
Week 2	8/26-8/28	Sect 1-2 Quiz 1 on 1-1 & 1-2, FTC 1 given
Week 3	9/2-9/4	Sect 2-2, 2-3 Quiz 2 on 2-2 & 2-3, FTC 1 due
Week 4	9/9-9/11	Sect 3-1, Review Quiz 3 on 3-1
Week 5	9/16-9/18	Test 1 , Sect 3-2
Week 6	9/23-9/25	Sect 3-3, 3-4 Quiz 4 on 3-2 & 3-3, FTC 2 given
Week 7	9/30-10/2	Sect 3-5, Review Quiz 5 on 3-4 & 3-5, FTC 2 due
Week 8	10/7-10/9	Test 2 , Sect 4-1 Quiz 6 on 4-1
Week 9	10/14-10/16	Sect 4-2, 4-3 Quiz 7 on 4-2 & 4-3
Week 10	10/21-10/23	Sect 5-1, 5-2 Quiz 8 on 5-1 & 5-2, FTC 3 given
Week 11	10/28-10/30	Test 3 , Sect 6-1 FTC 3 due
Week 12	11/4-11/6	Sect 6-2, 6-3 Quiz 9 on 6-1 & 6-2, FTC 4 given
Week 13	11/11-11/13	Sect 7-1, 7-2 Quiz 10 on 6-3, FTC 4 due The last day to drop is 11/10/25.
Week 14	11/18-11/20	Sect 7-3, Sect 7-4 Quiz 11 on 7-1 & 7-2
Week 15	11/25-11/27	Test 4, Thanksgiving (no class Thurs) FTC 5 given
Week 16	12/2-12/4	Sect 7-5, final review Quiz 12 on 7-3 to 7-5, FTC 5 due HW due Sat 12/6

Your final exam will be available in D2L from Sunday 12/7 at 12am until Wednesday 12/10 at 11:59pm. No extensions will be given.