

MATH 164

Foundations of Arithmetic

Meets M-F 9:00-9:50 in Hertz 120

Course Philosophy

In this course, we will study problem-solving in the context of foundations of arithmetic.

Student Outcomes

Students successfully completing Math 164 will demonstrate arithmetic operations and connections among content area via multiple representations.

Instructor: Michael A. Lundin

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Office Hours

MTWTh 11:15-12:30

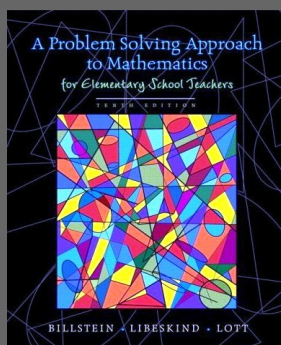
If you need to meet at any other time, please make an appointment with me. I use e-mail to avoid playing "phone tag."

Please talk to me if you need special accommodations due to a disability.

TEXT

A Problem Solving Approach to Mathematics

Billstein, Libeskind, and Lott



Course Content

Week 1: Problem Solving

Week 2: Bases, Number Systems

Week 3: Whole Numbers, Integers

Week 4: Integers and Number Theory

Exam 1

Week 5: Algebra

Week 6: Rational Numbers

Week 7: Decimals and Real Numbers

Week 8: Proportional Reasoning

Exam 2

Week 9: Probability

Week 10: Statistics

Final Exam: Time to be determined.

Course Requirements

Quizzes

Brief Quizzes will be given approximately once per week.

Homework Notebooks

Homework

- will be assigned almost every day;
- must be presented in an inexpensive PAPER folder, which will be collected two times during the quarter;
- must be presented in order of the *day of assignment* with "Day n" written in the upper right hand corner of the first page of that day's assignment; and
- must be complete, neat, and correct to receive full credit:

2 pts-mostly complete, neat, work shown supports solutions

1 pt-substantial content missing, not neatly presented, or work does not support solutions

0 pts-substantial missed work, not submitted

Exams

There will be two mid-term exams and a final exam.

Attendance, Missed Tests, Assignments

Class attendance is expected, and I will pass out a roll sheet every class day. (Class attendance is a reasonable predictor of grades in this course.) I expect tests to be taken on schedule and assignments to be completed the day after they are assigned. Correct them with feedback, and place them in your notebook in order of assignment day. *Assignments, quizzes, and tests may be made up **only** if the student and instructor agree on a time **before** a deadline.*

Assessments	Percent of Final Grade	Final Point Distribution	Final Grade
Written Homework	15%	93-100%	A
Quizzes	15%	90-92%	A-
2 Midterm Exams	40%	87-90%	B+
Final Exam	30%	83-86%	B
		80-82%	B-
		77-79%	C+

		73-76%	C
		70-72%	C-
		67-69%	D+
		63-66%	D
		60-62%	D-
		Below 60%	F