

# 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

Central Washington University  
Department of Mathematics, 400  
East 8th Avenue  
Ellensburg, WA  
98926-7424 Bouillon  
Hall Room 108D

### 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

### 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:

3 pts-complete, neat, work shown supports solutions

2 pts-mostly complete, neat, work shown supports

e-mail:  
[lundin@cwu.edu](mailto:lundin@cwu.edu)

**Office Hours**

MTWThF 11:10-12:00

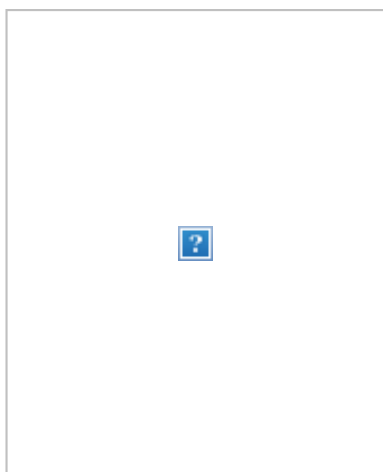
If you need to meet at any other time, please make an appointment with me. I use e-mail to avoid playing "phone tag."

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

**TEXT**

***A Problem Solving Approach to Mathematics***

Billstein,  
 Libeskind,  
 and Lott



**Exam 2**

Week 9:  
 Probability

Week 10:  
 Statistics

**Final Exam:  
 Time to be determined.**

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+
	30%	83-86%	B

## Final Exam

80-82%	B-
77-79%	C+
73-76%	C
70-72%	C-
67-69%	D+
63-66%	D
60-62%	D-
Below 60%	F