

Math 164: Foundations of Arithmetic, Winter 2018

Section 2: Mon—Fri, 12:00 – 12:50, Hertz 120

Professor Peter Klosterman

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Office Hours: Mon – Fri 11:00 – noon (*If you have a conflict with this time, email or talk to me*)

Text: *Explorations in Elementary Mathematical Concepts* by Willard and Shiver, ISBN: 9781465251190.

Course Topics: Structure of the real number system. Properties of and operations on integers, rationals, decimal representation, percentages, proportion, graphing, and elementary problem solving. The goal of this course is to make sure pre-service teachers have a deep understanding of concepts taught in elementary school mathematics.

Exams: There will be 3 midterm exams throughout the quarter. Final exam is Thursday, March 15th, noon – 2:00 PM. All exams are closed book, no calculator. Your final exam score can be used to replace your lowest midterm score (if it is beneficial to do so).

Makeup Exams will be given only in extreme cases for legitimate *documentable* reasons. If, for some legitimate reasons, you cannot make it to one of the exams, please contact the instructor *before* the exam.

Grading:

Homework (best 8 @ 15 points)	120 pts
Attendance	20 pts
Questionnaire	5 pts
3 midterm exams	300 pts
<u>Final exam</u>	<u>150 pts</u>
Total Possible:	595 pts

The following grading scale will be used:

A	93-100%	C	73-78
A-	90-93	C-	70-73
B+	87-90	D+	67-70
B	83-87	D	60-67
B-	80-83	F	0-60
C+	77-80		

Homework Sets will be posted/updated throughout the week on the class Canvas site, finalized by Wednesday, and collected the following Friday. You are responsible for doing your own homework, but it is appropriate and often advantageous to work with a study partner or a small study group. Show enough work so that your reasoning is obvious. Your lowest scoring homework set will be dropped. **No late homework.**

Attendance will be taken daily in class. Your first four absences will have no impact on your grade (this is to allow for sickness, travel, family emergencies, etc.). After these first four, each additional absence will result in a loss of 2 points from the “Attendance” category.

<http://canvas.cwu.edu> (the CWU Canvas website) will have course information, homework assignments, exam info, and other miscellaneous information. Look under the “files” tab.

Cheating will not be tolerated. Cheating will result in a zero grade for the exam and possibly a failing grade for the course. See the CWU Academic Dishonesty statement for more info: <https://www.cwu.edu/resources-reports/cwup-5-90-0104-academic-dishonesty>

Students with disabilities who wish to arrange for academic adjustments in this class are encouraged to provide me with a copy of their Confirmation of Eligibility for Academic Adjustments and meet with me as soon as possible to discuss their needs and the manner in which their accommodations will be delivered.

Other Helpful Information:

- <http://www.cwu.edu/learning-commons/university-math-center> has information about the University Math Center (Brooks Library 190). This is a place to start if you're looking for extra help.
- Don't be afraid to stop by office hours if something isn't making sense
- I'll post grades on Canvas (<http://canvas.cwu.edu>).
- Mark the final exam on your calendar right away so you don't make vacations plans before you're done with the quarter

Order of Topics

Ancient Number Systems

Base-10/The Real Number System

Fractions

Exam 1

Addition

Subtraction

Exam 2

Multiplication

Division

Exam 3

Ratios

Percentages

Final Exam (cumulative)