

**Math 164: Foundations of Arithmetic, Fall 2018**

**Section 1:** Mon—Fri, 10:00 – 10:50, Samuelson 115

**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 Tuesday, December 4<sup>th</sup>, 8:00 – 10:00 AM. All exams are closed book, no calculator. Your final exam percentage can be used to replace your lowest midterm percentage (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 (9 @ 5 pts)	45 pts
In-class activities (best 9 @ 5 pts)	45 pts
Questionnaire	5 pts
3 midterm exams	300 pts
<u>Final exam</u>	<u>150 pts</u>
Total Possible:	545 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 and due the Tuesday of the following week by 5 PM. Homework sets will be graded based on completion. Non-stapled sets will receive a 1 point deduction. Late homework is not accepted—submit whatever you have by 5 PM on Tuesday.

**In-class activities** will sometimes be collected and graded based on completion. This will be announced in-class. Your best nine activities will count towards your final grade.

**Disruptive classroom conduct** will not be tolerated. I encourage you to work together on in-class activities, but expect you to not distract others when I am addressing the class. Repeated disruptive and/or distracting in-class behavior will receive an official warning. If the behavior persists after this, you may receive a **zero** in the “in-class activities” category at the end of the quarter.

<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
- 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

*Exam 1*

Fractions

Addition

Subtraction

*Exam 2*

Multiplication

Division

*Exam 3*

Ratios/Percents (*if we have time*)

*Final Exam (cumulative)*