Math 406: Algebra for Teachers, Winter 2019   **Section 1:** MTWR 12:00 – 12:50, Samuelson 115

Professor Peter Klosterman
Samuelson 229A, peter.klosterman@cwu.edu
Office Hours: Mon – Fri 1:00 – 1:50 *(if you have a conflict with this time, email or talk to me)*

Text: No textbook required. The course notes, Powerpoints, and handouts will be sufficient for this class.

Course Topics: This course is designed to help future middle-level teachers connect algebra *concepts* to algebra *procedures*. We will investigate the different uses of variables, the process of writing equations and solving them, solving inequalities and systems of inequalities, functional reasoning, and modeling with functions. For each of these topics, we will focus on how they can be visually represented as well as their underlying concepts.

Exams: Two midterm exams are tentatively planned for weeks 4 and 8 in the quarter (but could be subject to change). Final exam is cumulative and is scheduled for Thursday, March 14th, noon – 2:00 PM. Calculators are not allowed on exams.

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:

		The following grading scale will be used:	
Homework (best 9 @ 10 pts)	90 pts		
In-class activities (best 9 @ 5 pts)	45 pts	A 93-100%	C 73-77
Questionnaire	5 pts	A- 90-93	C- 70-73
Midterm exams	200 pts	B+ 87-90	D+ 67-70
Final exam	150 pts	B 83-87	D 60-67
Total Possible:	490 pts	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. For full credit, you must convince me that you've put in a reasonable effort, which includes showing/explaining work and seeking out help in office hours if you've gotten stuck on something. 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 and worksheets will be collected and graded based on completion. These can't be made up—you must be present that day in class to get credit. Roughly a dozen worksheets will be collected over the quarter—your best nine 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 your tuition-paying peers 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 deduction of some or all of your "in-class activities" points 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.

Cheating will not be tolerated. Cheating will result in a <u>zero</u> grade for an 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:

- Don't be afraid to stop by office hours if something isn't making sense. I enjoy it when students stop by my office!
- Mark the final exam on your calendar right away so you don't make vacation plans before you're done with the quarter

Order of Topics
Different Uses of Variables
Writing and Representing Algebra
Polynomial Algebra
Completing the Square and Quadratic Formula
Rational Expressions
Irrational Numbers
Algebra with Radicals
Systems of Equations
Inequalities
Functions