Syllabus ECON1078 - Math Tools for Economists 1

Instructor: Shawn Swanson Class Meetings: Lectures are prerecorded and available on Canvas, in-person attendance is NOT required Office ! "#\$%&'()'**&+,'-.'/'*0&0,'1.'23'4567'809,:'-3;'%<3=>\$"3"#%?<'"3?23@'#%23A'B'''. Zoom: https://cuboulder.zoom.us/my/ask.shawn Email: shawn.swanson@colorado.edu

Course Description:

Economics as practiced today is a form of applied mathematics that uses many different mathematical tools to develop models to understand the world around us. This course teaches fundamental mathematical skills and logical thinking that serves as a basis for economic thought. Topics include logic, algebra, number theory, set theory, graphs, functions, and more. We will explore these topics using "real world" examples. This class will be vital in preparing you for the more advanced calculus techniques found in ECON 1088.

This will be a hybrid class, where in-person attendance is optional. All lectures will be prerecorded and posted to Canvas for your convenience. The recorded lectures are a useful tool, which will allow you to slowdown, fast forward, and pause lectures to increase comprehension. Office hours will be held in-person and synchronously via zoom.

Zoom: Zoom will be used to conduct office hours as well as proctor online exams. Please comport yourself for Zoom

Course Schedule:

Week	Content
Week 1 (8/24, 8/26, 8/28)	 Material: 1.1, 1.2, 1.3 Topics: Numbers, Integer powers, Rules of algebra Assignments Due: Week 1 assignment 8/28
Week 2 (8/31, 9/2, 9/4)	 Material: 1.4, 1.5, 1.6 Topics: Fractions, Fractional powers, Inequalities Assignments Due: PS1 9/4

Week 3 (9/7, 9/9, 9/11)