

Running Lecture Outline: Quantitative Reasoning

Trevor

Academic Year 2024

Purpose of class

My goal in Quantitative Reasoning is to refresh what you've learned from geometry and algebra, while moving forward towards skills you will need in college and your careers. We will learn practical math skills for personal finance, taxes, and investing. We will also apply concepts we know to establish rigorous ways of thinking about the natural sciences, economics and computers. We'll also make an effort to use all the tools we can—graphing software, Python, Wolfram Alpha, spreadsheets, etc.—to do math in the most relevant ways you may encounter as you go out into the world.

Grades

There will be a weekly problem set. Problem sets will come out on the first day of class in a given week and be due the first class day of the following week. We will structure our in-class time around learning to do the exercises in these problem sets together. This will be the only work that is taken for a grade. But the problems will be difficult to work without practicing in class, so attendance is strongly encouraged. There will be 12 problem sets and I will drop 2. The grading will be on a curve so that $grade = \frac{\% correct}{\% max correct}$. I will also grade by effort if you prefer in this manner:

A	Only attainable through > 90% correct answers on the curve
B	Strong, honest effort no matter % of problems correct
C	Very little effort
F/0	No effort/not turned in

Exceptions and other policies

Late homework can be turned in with a letter grade penalty per week and we'll find a way to work with any reasonable medical/personal issues on the honor system in a no-stress way that emphasizes learning rather than rules. I'm very open to suggestions on course content and pace. If you feel that the class is not working for you, we can try *any* combination of online/self-paced instruction or change the way class works as long as some reasonable work and learning is happening. Bring these issues to me and KAPS faculty/administration early and often. My school e-mail is these@kapschool.org.