

# MATH 1030-008:

## Introduction to Quantitative Reasoning

12:55PM-1:45PM MWF in JTB 140  
Fall 2008

### Course Information:

Instructor: Ben Trahan  
Website: <http://www.math.utah.edu/~trahan/Teaching/1030/>  
E-mail: [trahan@math.utah.edu](mailto:trahan@math.utah.edu)  
Office: JWB 332  
Office Phone: 581-7904  
Office Hours:

**Textbook:** *Using and Understanding Mathematics: A Quantitative Reasoning Approach*, by Jeffrey O. Bennett and William L. Briggs (third edition). The version in the campus bookstore only includes the chapters we will be using (1-4 and 8-10) and thus may be cheaper.

**Prerequisites:** C or better in Math 1010 (Intermediate Algebra), or at least 23 on your ACT (math); this means that you should be able to manipulate variable expressions, work with simple linear equations and graphs, work with fractions and exponents, and know the basic properties of geometric shapes. (**NOTE:** Math 1030 will not fulfill a Math 1050 or Math 1090 prerequisite.)

**Course:** Math 1030 is an application-based course centered around the use of mathematics to model changes in the real world, and the effective communication of these mathematical ideas. The course is based around chapters 1-4, chapters 8-9, and chapter 10 section A of the book. You should read all of these sections as we cover them.

**Calculators:** You will need a scientific calculator for this class. Bare minimum, it must have an exponentiation ( $e^x$ ) and power ( $y^x$ ) key. You must bring your calculator to all quizzes and exams!

**Homework & Quizzes:** Homework problems will be assigned approximately once a week. No late homework assignments will be accepted, and they must be turned in at the beginning of the class on which they are due. Your lowest two homework grades will be dropped. There will also be a quiz every two weeks. I will tell you the dates of these quizzes well in advance, and you must tell me in advance if you will be missing one. Each quiz will last 15-20 minutes, and class will continue afterwards. The lowest quiz grade will be dropped.

**Project:** You will have one group project to turn in. You will receive a list of topics in early October, and will work in groups of 3 students on a topic you have chosen. I will explain the details when the topics are handed out, and you will have seven weeks to complete the project. Late projects will not be awarded full credit.

**Exams:** You will have two mid-term exams, each taking up a full period of class. Time permitting, the preceding lecture will be dedicated to review. You **MUST** bring your ID to both exams. Absence from the exam will be excused **ONLY** if you can provide verifiable evidence of a serious illness or family crisis, and except in extreme circumstances, you must inform me in advance. You must also get in touch with me promptly about making up the exam.

**Final Exam:** The final exam will be Wednesday, December 17<sup>th</sup> in JTB 140 (which is the normal room). It will, of course, be cumulative, and you should bring your ID.

**Grading:** Your grade will be based on:

Homework & Quizzes:	20%
Project:	20%
Exams (2):	30%
Final Exam:	30%

The final grades will be based on the normal 90%-A, 80%-B etc. scale.

**ADA Statement:** The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, cognitive, systemic learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations that you may require for this course.

**Withdrawal:** The last day to DROP this class is Wednesday, September 3<sup>rd</sup>. The last day to WITHDRAW from this class is Friday, October 24<sup>th</sup>. If you are unsure if you can pass the class with a satisfactory grade, please come talk to me so that we can discuss options.

**Tutoring:** The Rushing Math Center offers free drop-in tutoring, a computer lab, and study areas for undergraduates. The Rushing Student Center is in the basement between LCB and JWB, the two math buildings on President's Circle. The hours for the tutoring center are:

Monday–Thursday:	8:00AM–8:00PM
Friday:	8:00AM–4:00PM

It is open through finals, except for university holidays. I highly recommend it, even simply as a place to sit down and get work done.

For more personal tutoring, try the ASUU tutoring center. Its website is <http://www.sa.utah.edu/tutoring/>

Let me know if you have any questions!