MATH 1030 – Section 4
Introduction to Quantitative Reasoning

T H 3:40 – 5:00, LCB 225
Spring 2014

Course website: http://math.utah.edu/∼ krtolica/1030.html

Instructor: Predrag Krtolica
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Office: JWB 205
Office Hours: after class or by appointment

Textbook: "Using and Understanding Mathematics: A Quantitative Reasoning Approach", by Jeffrey O. Bennett and William L. Briggs (fifth edition). The version that you can purchase at the Bookstore is condensed and only includes chapters $1-4$, $8-10$.

Calculator: Students will need a scientific calculator for this class. Make sure that the calculator used has an e^x key, a power key y^x, and a $\log x$ key.

Course Description: Math 1030 is a non-traditional, application-based course centered around the use of mathematics to model change in the real world, and the effective communication of these mathematical ideas. The course is primarily intended for students who seek only to satisfy the QA requirement for the bachelor's degree and who, with the exception of a statistics class, will not take any further mathematics courses at the university. The purpose of the Math 1030 course is to develop skills in quantitative reasoning by examining how appropriate mathematical techniques can be used to analyze questions from many different areas. The mathematics covered in the course include: ratios, percents, averages, estimation, basic financial mathematics, linear and exponential models of growth, basic geometric measurements and scaling. The course material is based on Chapters 1-4 and Chapters 8-10 of the text.

Prerequisites: C or better in Math 1010 (Intermediate Algebra), or at least 23 on your ACT (math). 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 simple geometric shapes.

Withdrawals: The last day to drop this class is Wednesday, January 15, 2014. The last day to withdraw from this class is Friday, February 28, 2014.

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

Academic Dishonesty: Cheating in any form will not be tolerated and may result in a failing grade for the relevant assignment or exam and/or a failing grade for the course. The guidelines in the Student Handbook will be followed.

Attendance: Regular attendance is highly encouraged in order to learn the concepts. You will be responsible for all topics covered in class regardless of whether or not you attend.

Notes: I will post the "blank" notes on the class website at least one week ahead, and it is students' responsibility to print them out and bring to class.

Homework/Quizzes: There will be a homework assignment for each section, but these will not be collected. Instead, a 15-20 minute quiz will be given in class approximately every two weeks with problems from the assigned homework. There will be a total of 6 quizzes. They will cover material similar to that which is in the homework and the lectures. Prior arrangements must be made if a quiz is going to be missed. **No make-up quizzes will be given**, but the lowest 2 quiz grades will be dropped at the end of the semester.

Group Project: In order to develop the skill of communicating technical information, you will work in groups of 3-4 on a project and present your results in a written paper. The project is due on the day of the final, and all of the relevant information will be given to you at a later time.

Exams: There will be two 50-minute exams: exam 1 will be on Thursday, February 27, 2014, while exam 2 will be on Thursday, April 10, 2014. Absence from an exam will be excused only if you can provide verifiable and convincing evidence that you have a significant illness or serious family crisis that will prevent you from attending. Except under extremely unusual circumstances, you must inform me in advance of the missed exam. You are expected to promptly make arrangements with me to make up the exam.

Final: The final exam will be a departmental exam and it will be comprehensive. It is tentatively scheduled for Thursday, April 24, 3:30 to 5:30, in our usual room (LCB 225). Students must bring a valid ID.

Grading: Your grade will be based on the following scales.

Quizzes	20 %
Project	20 %
Exam 1	15 %
Exam 2	15 %
Final Exam	30 %

A:	93 - 100 %	A-:	90 - 92.99 %	B+:	87 - 89.99 %
B:	83 - 86.99 %	B-:	80 - 82.99 %	C+:	77 - 79.99 %
C:	73 - 76.99 %	C-:	70 - 72.99 %	D+:	67 - 69.99 %
D:	63 - 66.99 %	D-:	60 - 62.99 %	E:	$\leq$ 59.99 %

Tutoring: The Rushing Math Center offers free drop-in tutoring, a computer lab, and a study area for undergraduates. The Rushing Math Center is in the bottom floor between LCB and JWB. The hours of operation are Monday through Thursday from 8am to 8pm and Friday from 8am to 6pm.