Course Syllabus (Spring 2005)
MATH 1030-02 – Quantitative Reasoning
MWF 8:35–9:25 AM, LS 101

Instructor: Mike Woodbury, email: woodbury@math.utah.edu
Office: JWB 205, phone: 585–1630, hours: TBD (see course webpage)
Text: Using and Understanding Mathematics, A Quantitative Reasoning Approach (3rd Addition), J. Bennett, W. Briggs
Course Website: http://www.math.utah.edu/~woodbury/teaching/Math1030

Course Description/Prerequisites: Math 1030 is a non-traditional course that focuses on the use of mathematics to examine and describe change and growth in the real world. We develop a few simple mathematical concepts useful in studying questions that arise in the Social and Behavioral Sciences, Business and the Liberal Arts. The topics covered center around measuring, describing and analyzing change in practical contexts. The prerequisite for this class is Math 1010. This means that students should have a working knowledge of the basic algebra and geometry concepts covered in Intermediate Algebra.

Homework: Homework will be assigned in class, and will be posted on the course webpage. The purpose of the homework is to give the student the opportunity to work problems and become proficient in the methods and techniques we will be learning. It is highly recommended that each student complete all of the homework assignments because the quizzes will be based directly on that material. However, I do not intend to collect homework.

Group Project: The goal of Math 1030 is to have students study the mathematical concepts in depth by applying these concepts to practical, open-ended questions, and to develop skill in communicating technical information. To this end, students will work in groups on a specific topic ranging from anything from personal finance and management (e.g. getting a home mortgage) to biological studies (e.g. examining the population dynamics of sea turtles.) A list of potential topics will be given in the first weeks of the class, and a written report will be due sometime towards the end of the semester.

Exam Policies: Seven (7) quizzes will be given throughout the semester. These quizzes should determine whether or not the student has completed and understood the homework. Additionally, we will have two (2) midterm exams and a (departmental) comprehensive final. During the first week of class we will review basic algebra, and a pre-test (Quiz A) will
be given. The purpose of this test is help the student determine his/her readiness for the course. The score will have no bearing on the student’s final grade.

**Grading:** Grades will be determined according to performance on quizzes (20%), the group project (20%), midterms (30%) and the final (30%). The two lowest quiz scores will be dropped. Since some of your scores will not count towards your final grade, no makeup quizzes or midterms will be given.

**Valuable Resources:** Many of you may think that the book is only useful for the worked out examples and because it has the homework problems. (Maybe you bought it just for the answers in the back.) However, you will find that actually reading the chapters *before* we go over them in class will be extremely beneficial. I hope to be another valuable resource. Please come see me in my office. If the scheduled times will not work for you we can make an appointment for an appropriate time. Finally, the mathematics department offers free tutoring in the T. Benny Rushing Mathematics Center between JWB and LCB on presidents’ circle. Tutors will be there 8:00 AM to 8:00 PM Monday–Thursday, and 8:00 AM to 6:00 PM Friday. See [http://www.math.utah.edu/ugrad/mathcenter.html](http://www.math.utah.edu/ugrad/mathcenter.html) for more info.

**Withdrawal:** The final day to drop the class (to avoid “W” on your transcript and having to pay tuition) is Wednesday, January 19, 2005. Your final chance to withdraw from the class is Friday, March 4, 2005.

**ADA Statement:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you need accomodations in this class, reasonable prior notice needs to be given to me and to the Center for Disabled Student Services, 581–5020 (Voice or TDD) to make arrangements for accomodations.