

## Math 1030 – Quantitative Reasoning - Sections 3 & 4 Spring 2006

Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.

**Instructor:** Sarah Brown  
**Office:** SC 120  
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**Website:** [http://www.suu.edu/faculty/brown\\_s/](http://www.suu.edu/faculty/brown_s/)  
**Prerequisites:** A Math ACT of 23, a grade of C or better in [Math 1010](#) or [Math 1020](#) or equivalent.  
**Text:** *Thinking Mathematically* 3<sup>rd</sup> Edition by Robert Blitzer  
**Other Materials:** Scientific Calculator with  $e^x$  and  $y^x$  or  $\wedge$   
**Fees:** \$35  
**Class Meetings:** **Section 3:** 10-10:50am Monday through Friday SC129. Wednesdays are optional.  
**Section 4:** 11-11:50am Monday through Friday SC129. Wednesdays are optional.  
**Office Hours:** Monday through Friday 3-4pm in SC 120

### Course Description:

Exploration of contemporary mathematical thinking, motivated by its application to problems in modern society; emphasizes development of skill in analytical reasoning. This course is designed not only to meet the University general education requirements but also to generate a positive attitude toward and an interest in mathematics.

### Purpose:

This class fulfills the University [general education](#) quantitative literacy requirement.

### Objectives:

Comprehend basic logic concepts.  
Understand the financial mathematics involved in percent, interest, loans, and investments.  
Use mathematics regarding lengths, areas, volumes, weights, and temperatures.  
Study basic geometry, including angles, areas, volumes, and the Pythagorean Theorem.  
Find permutations, combinations, and probabilities.  
Learn basic statistics such as sampling, graphs, means, standard deviation, & normal distribution.  
Have an overview of voting methods and their flaws.  
Be introduced to graph theory, particularly Euler paths and circuits.

### Grading:

Homework (37 assignments)	400 points (12 pts each, lowest 4 assignments dropped, 4 pts free to make 400)
Chapter Tests (5 tests)	400 points (100 pts each, lowest test dropped, do complete corrections for half of missed pts back, work must be shown)
Final Exam	200 points (cumulative)
Extra Credit	½ point for each day you attend class (except exam days, help sessions, and reviews), provided you're on time and stay the whole class period. There are also extra credit test review assignments.

### Grading Scale:

A	930-1000 (93%-100%)	B-	800-829 (80%-82%)	D+	670-699 (67%-69%)
A-	900-929 (90%-92%)	C+	770-799 (77%-79%)	D	630-669 (63%-66%)
B+	870-899 (87%-89%)	C	730-769 (73%-76%)	D-	600-629 (60%-62%)
B	830-869 (83%-86%)	C-	700-729 (70%-72%)	F	0-599 (0%-59%)

The class is 4 credits. Expect to spend at least 8 hrs on homework each week (2 hours for every hour of class). Homework is graded by selecting a few of the assigned problems. Work must be shown to get credit. You are encouraged to work in groups but may not copy each others homework. Copying solutions from others or the back of the book or solutions manual will result in 0 credit. Homework is collected at the end of class but may also be turned in at my office (SC 120) by 5pm the day it is due. Late homework is not accepted and missed exams cannot be made up unless there are extenuating circumstances as approved by the instructor. Grades will be posted periodically on WebCT, which can be accessed from <http://www.suu.edu/curstu/>.

### **University Policies:**

*Scholastic dishonesty* will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable on-campus behavior.

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the *Disability Support Center*, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.

### **Resources for Help:**

- The Student Success Center <http://www.suu.edu/ss/success/> in the Sharwan Smith Center has free tutoring <http://www.suu.edu/ss/success/tutoring.html>.
- My office hours are Monday through Friday 3-4pm in SC 120.
- You may form study groups with your classmates. However, the problems must be written up in your own words. Duplicate homeworks are not acceptable.
- Optional Wednesday help sessions with the TA are open question/answer sessions.
- The textbook & accompanying manual can be helpful.
- [Alisha McCann](#), the Math Supplemental Instruction Coordinator, offers supplemental instruction classes. [Spring 2006 Schedule](#)