

UNIVERSITY OF COLORADO AT BOULDER
Spring 2004

QRMS 1010/MATH 1012 – Quantitative Reasoning and Mathematical Skills
Section 004, 12:00 – 12:50 MWF, MUEN E431

INSTRUCTOR INFORMATION

Instructor: Dana Ernst

Office Hours: 1:00 – 2:30 MWF or by appt

Email: Dana.Ernst@colorado.edu

Office: MATH 203

Office Phone: (303) 492-1824

Home Phone: (303) 443-9568

COURSE INFORMATION AND POLICIES

Description and Purpose: This course was designed to promote mathematical literacy among liberal arts students. This is not a traditional mathematics class, but is designed to stimulate interest in and appreciation of mathematics and quantitative reasoning as valuable tools for comprehending the world in which we live. Also, the purpose of any mathematics class is to challenge and train the mind. Learning mathematics enhances critical thinking and problem solving skills.

Text: *Essentials of Using and Understanding Mathematics: A Quantitative Approach*, Jeffrey O. Bennett and William W. Briggs (2002).

Course Content: We will cover the following topics with some possible additions and/or deletions: Topics in Graph Theory (not in the textbook), Chapter 4: Financial Management, Chapter 5: Statistical Reasoning, Chapter 6: Probability, Chapter 7: Exponential Astonishment, Chapter 8: Mathematics and the Arts, Chapter 9: Mathematics and Politics.

Other Material: Scientific calculator, notebook, and loose-leaf notebook paper are all required.

Attendance: Regular attendance is expected and is vital to success in this class.

Homework: Homework will be assigned daily and collected at the beginning of class on the day it is due. I will usually choose 2 or 3 problems to grade for correctness and the remaining problems will be graded for completeness. Occasionally, I will just grade for completeness. You are allowed and encouraged to work together on homework. However, each student is expected to turn in his or her own work, unless otherwise instructed. Late homework will not be accepted without prior approval from me. At least three of your lowest homework scores will be dropped at the end of the semester.

Exploration/Problem Solving Assignments: Occasionally, I will assign difficult/interesting problems for you to work on. These problems may or may not have anything to do with what we are working on at the time. Sometimes we will work on the problems in class and sometimes I will give them to you to work on outside of class. These assignments are not extra credit.

Exams: There will be 4 in-class exams and a cumulative final exam. Everyone will have as much time as needed to complete each of these exams. With the exception of the final exam, we do not have scheduled exam dates. I will always give you at least a week's notice prior to an exam.

Make-ups: Make-ups for tests, homework, etc. will not be allowed, unless you have received prior approval from me. In general, don't expect any make-ups. Your best bet is to communicate with me ahead of time.

Writing Component: On some homework assignments and probably all tests, you will be required to do some writing.

Special Services: If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Disability Services: (303) 492-8671, Willard 322, www.colorado.edu/disabilityservices.

Other Comments: Turn off all cell phones. If you must be late (and I'd prefer if you weren't), please try not to disrupt class.

COURSE EVALUATION

Basis for evaluation:

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|----------------------------|------------------------------|
| 1. Four In-class Exams | 100 pts each |
| 2. Homework | 5 pts each (approx 20) |
| 4. Exploration Assignments | 5-20 pts each (less than 10) |
| 5. Final Exam | 100 pts |

Grade Determination:

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
0 – 59%	F

IMPORTANT DATES

Martin Luther King Jr. Holiday (No class)	January 19
Last day to add	January 21
Last day to drop without instructor consent	January 28
Last day to withdraw with a "W" recorded	February 25
Spring Break (No class)	March 22-26
Last day of classes	April 30
Final Exam	May 3 @ 1:30-4:00 PM