

**MATH 1012-009: QRMS, Spring 2012**  
**MWF 3:00–3:50 PM, ECCR 155**  
**January 18, 2012 – May 4, 2012**

**General Information:**

**Instructor:** Dr. Michael D. Roy   **Office:** MATH 140  
**Email:** roymd@colorado.edu   **Office Hours:** MWF 2:00–2:50 PM

**Course Webpage:** <http://euclid.colorado.edu/~roymd/qrms/>

**Text:** Bennett and Briggs (Addison Wesley): *Using and Understanding Mathematics: A Quantitative Reasoning Approach*, 5th ed.

**Technology:** You will need a calculator. At a minimum, it should be able to compute exponentials and logs. nCr and nPr buttons are useful but not essential.

**Material Covered:** This course will cover portions of chapters 1–9. I will announce when we are skipping certain sections ahead of time to help you prepare.

**Grading Scheme**

You will be graded on your written work, which will be judged on the basis of *correctness*, *completeness*, and *legibility*. Your final grade will be determined out of 700 points as follows:

2 Projects	100 points each	200 points
3 Midterm Exams	100 points each	300 points
1 Final Exam	200 points	200 points

**Homework:** Homework will typically be assigned every class and will also be posted on the web. It is intended as a means for you to test your comprehension, but will not be collected or graded. The solutions manual is on reserve in the libraries for you to check your work.

**Quizzes:** We will have a short quiz at the beginning of class every Friday, except when an exam is scheduled. Quizzes will usually consist of two problems taken directly from the assigned problem sets. You may use your handwritten notes (including homework) for the quiz. Quiz scores are not directly computed as part of your final grade, but instead are added to the upcoming exam score (to a maximum of 100 on the exam).

**Projects:** Each project will entail some computation and research. For each, you will submit an essay (two to three pages) interpreting what you've found. Projects must be typed, but you may include handwritten mathematics if necessary. Including a cover page is not necessary. Late projects will be marked down 5 points per class day after the due date. You will be allowed to work in small groups on the projects; in you do, a portion of your project grade may be based upon attendance and participation in your groups.

**Exams:** There will be three midterm exams (Feb. 10, Mar. 9, and Apr. 13) and a final exam (Tues., May 8, 7:30pm–10:00pm). All midterm exams will be during the regular class hours in the regular location. You may use your calculator, book, and notes on the exams. There will be no make-ups for missed exams; if it is necessary for you to miss a midterm because of a religious observation or other valid reason, inform me well in advance of the exam date and we will arrange an alternate time, or use the average of your other midterm exams in the computation of your grade. The final exam will be cumulative.

**University Policies:**

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. Contact: 303-492-8671, Center for Community N200, and <http://www.Colorado.EDU/disabilityservices>

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Specific policies for this class are described above. Please let me know well in advance of any such conflicts. See full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

Students and faculty each have responsibility for maintaining an appropriate learning environment. Those who fail to adhere to such behavioral standards may be subject to discipline. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. I will gladly honor your request to address you by an alternate name or gender pronoun. Please advise me of this preference early in the semester so that I may make appropriate changes to my records. See policies at <http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

The University of Colorado at Boulder policy on Discrimination and Harassment, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH, the above referenced policies and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council ([honor@colorado.edu](mailto:honor@colorado.edu); 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>