

**Mathematics of Coding and  
Cryptography  
(MATH 4440-001)  
Spring 2009**

- Instructor:**           **name:** Christopher Sinclair  
                             **office hours:** M 12-1, W 3-4 and F 2-3 or by appointment  
                             **office:** Math 223  
                             **email:** chris.sinclair@colorado.edu
- Course webpage:** <http://math.colorado.edu/~sinclaic/>
- Class Meetings:**   **room:** ECCR 151  
                             **lecture:** MWF at 1:00PM – 1:50PM
- Text:**                   ***Introduction to Cryptography with Coding Theory***, by Wade Trapp and Lawrence C Washington, Prentice Hall.
- Calculators:**         Calculators can be helpful for homework and actually may be needed for some of the problems, however, to even the field for everybody, *they are not allowed during tests and quizzes!*
- Prerequisite:**        Math 3130 (Linear Algebra) with a passing grade.
- Work Load:**         This course will require *between six and twelve hours of work per week* outside class and recitation attendance, depending on your preparation.
- Grading:**            > Your course grade will be computed from:  
                              o **group exercises/participation 100 pts.**  
                              o **2 midterm exams ..... 100 pts. each**  
                              o **1 final exam ..... 200 pts.**
- Homework:**         Homework will be assigned every week, though will not be graded. Group exercises will be given every week and will be due the Monday of the next week.
- Tests:**                > Exam dates will be announced at least a week before.  
                              > Bring your CU student-ID to all your exams.  
                              > The use of cellular phones, or any type of headset during tests is strictly forbidden.

**STUDENTS WITH DISABILITIES**

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, Willard 322, and [www.Colorado.EDU/disabilityservices](http://www.Colorado.EDU/disabilityservices)

**RELIGIOUS OBLIGATIONS**

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. In case of conflict with a test, please let me know at least two weeks in advance. See full details at

[http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

**CLASSROOM AND COURSE-RELATED BEHAVIOR**

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat all students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which they and their students express opinions. Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, 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 polices 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).

**DISCRIMINATION AND HARASSMENT**

The University of Colorado at Boulder policy on Discrimination and Harassment

(<http://www.colorado.edu/policies/discrimination.html>, the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships applies 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 and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>.

**UNIVERSITY'S HONOR CODE**

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/>.