Prerequisite: CMSC 216 and CMSC 250. Informal Prerequisite: that you LIKED CMSC 250. Note: You cannot get credit for both CMSC 389 and CMSC 456

Overview: We will go through a sequence of Crypto Systems, first proving they are UN-CRACKABLE and then CRACKING them. We will then study Secret Sharing (but don’t tell anyone!).

Class Time and Place: W-Th-Fr 1:00-2:30, CSI 1115. Days we meet: Jan 3,4,5,10,11,12,17,18,19

GRADING: There will be HW (given every class day, due the next class day), one midterm, and one final. HW is worth 25%, the midterm is worth 30%, and Final is worth 45%. MIDTERM: Friday Jan 12 in class. FINAL: Friday Jan 19 in class. For HW, Midterm, Final you must hand in your own work—academic dishonesty will be dealt with harshly, resulting in a hearing in front of the acad honor council. HW must be neatly written. You will lose points for sloppiness.

HW, Mid, Final Excuse Policy: The HW will typically given on a DAY and be due the NEXT TIME class meets, at the beginning of class since I may go over it IN class. There will be roughly 10 HW’s. No late HW will be accepted except with a documentation (e.g., a doctors note). If you miss an exam and can provide a documented excuse within a day then you will get a makeup. If you know you will not be able to take an exam or do a HW on time ahead of time for Religious or other reasonable reasons, let me know ASAP.

Office Hours and Contact Information Prof Gasarch, AVW 3245, 405-2698, gasarch@cs.umd.edu. Off. Hrs: W-Th-Fr 11-12:45, though I am usually around 2:30-5:00 also. And I’m often in M and Tu also. You can always email me. TA’s: Alexander Brassel (alexbrasse2020@gmail.edu), Sina Mirnejad (smirneja@terpmail.umd.edu), Justin Shen (jstnshen@gmail.com).

Accommodations: Students requesting academic accommodations due to a disability should make such a request to the instructor in office hours, with a letter of accommodation from the Office of Disability Support Services (DSS) within the first two days of the semester.

Course Evaluations There may be official course evals for this course. In any case I will be asking to fill out a course eval that I make up to help me teach this course better in the future.

Text: There is no text but notes may be posted online at times.

Laptop Policy: Laptops are allowed in class since I ASSUME that you are either using it to take notes OR you very much want to fail the class so you are on Facebook. Your choice.