

CS530

Security Systems

Bill Cheng

<http://merlot.usc.edu/cs530-s10>



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Today's Topics

- Placement Exams
 - ▮ Replaces the old Diagnostic Exam
 - ▮ See web site for details
- Administrative Stuff
 - ▮ The instructor **cannot** give D-clearances
 - ▮ If you would like a D-clearance, please use the on-line D-clearance system
 - ▮ I will waive CS 402 prerequisite if class is not full
- Review Course Organization
- Review Topics
- HW
- Introduction



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Class Structure

- TuTh 9:30am - 10:50am in CHE 400D
- Instructor: Bill Cheng
 - ▮ Email: bill.cheng@usc.edu (24 hour turn-around)
 - ▮ Office Hours: M TuTh 2:00pm - 3:00pm or by appointment in SAL 228
- TA: Leslie Cheung
 - ▮ Email: lescheung@usc.edu (24 hour turn-around)
 - ▮ Office Hours: (TBD)
- Grader: (TBD)
 - ▮ Email: (TBD) (24 hour turn-around)
 - ▮ Will hold class hours after grade notification



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Class Resources

- Class web page: <http://merlot.usc.edu/cs530-s10>
- ▮ Lecture notes posted here soon (hopefully) after class
- ▮ Homework assignments (programming)
- ▮ Reading list
- ▮ News section
- ▮ You should check this site regularly
- Google group
 - ▮ Student-to-student discussions about programming assignments
 - ▮ Exchanging ideas are allowed
 - ▮ Posting code is **not** allowed (short code snippets to illustrate ideas are allowed - short means < 3 lines)
 - ▮ Instructor & TA will also post answers to questions here
 - If appropriate for whole class



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Course Readings

- Textbooks, not required
 - ▮ B. Schneier
 - "Applied Cryptography: Protocols, Algorithms, and Source Code in C"
 - may be out of print
 - ▮ Matt Bishop
 - "Computer Security: Art and Science"
- Research Papers
 - ▮ Available online
 - ▮ About 3 papers
 - may add papers as we go along
- Lectures based on textbooks
 - ▮ slides
 - ▮ lectures should be interactive



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Grading

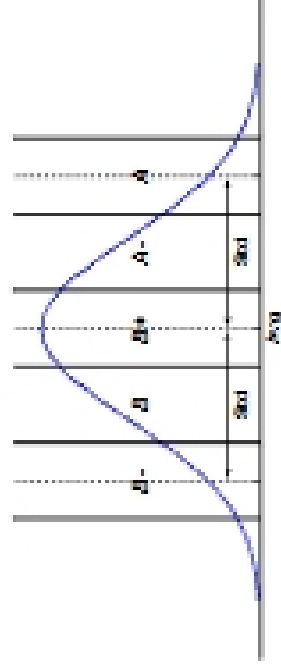
- HW: 30% 3 to 4 assignments (some programming)
- Lab: 10% 10 assignments (hands-on)
- Paper: 10% 3-page extended abstract
- Recital: 3% starting with 4th week of classes
- Midterm: 20% in class, Thu, 3-4:20:00 (firm)
- Final: 25% 8:00am - 10:00am, Tue, 5/1/2010 (firm)
- No extra credit
 - ▮ Try your best from the beginning
- HW is graded by the grader, term paper proposal approved by the TA, term paper and exams graded by the instructor



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Grading (cont...)

- Final grade assigned by the instructor
- On a curve, class average is probably a B+
- C's will likely be given, if necessary
- Lesson guidelines depicted below



Grading (cont...)

- Fairness
- Without fairness, grades have little meaning
- The instructor must treat all students equally and cannot give special treatment to any particular student
- Therefore, please do not ask special favors from the instructor because of your circumstances (except for cases that are explicitly allowed by the university)
- This may seem unfair to you because you believe that your circumstances are special (understandably, everyone does)
- But the rule the instructor must follow is that *whatever he offers you, he must offer to the entire class*

Sign Row Sheet

- For on-campus students only
- If you are enrolled in the DEN section, you are not required to sign row sheets
- DEN students normally have a slight disadvantage that they can miss stu's happening in the class
 - this is served as an "opportunity"
- Starting from week 4, each lecture is worth 1 point
- You should sign the row sheet as soon as you get into class
- If you come in between 9:45 am and 10:00am, check the box
- If your signature is on the row sheet, you get the 1 point
 - provided that you do not leave before class ends
- If you have to leave before class ends, please email me to have your signature removed or to get only half a point
- If you are sick or have a family emergency, please bring a note from a doctor to receive credit

HW Assignments

- HW
- Small programming assignments
 - C/C++
 - C/C++ only
 - must compile and run on `osx64` locally
 - Makefile

Lab

- 🏠 Lab: Lectures Fri 4:00pm - 4:50pm in RTH 105
 - make sure you attend the first lecture for administrative information
- 🏠 Lab TA David Morgan
 - Email: davidm@usc.edu
- 🏠 Lab Grader Ranjeet Sangha rsangja@usc.edu
 - There will be 7 lab assignments
 - each lab is worth 7 point (pass/fail)
 - you must complete 8 out of 7 labs
 - the only possible total scores for the lab are 0, 8, 9, and 70
- 🏠 Lab web page is at <http://www.ec1.usc.edu/~ec1d530/>



- 🏠 Use Blackboard and the [Blackboard](#) system (see web page for details)
 - Very important: read [copy of lab manual](#)
 - Very important: [verify your assignments](#)
 - see the bottom of the Electronic Submission Guidelines web page for details
 - If you forget a file, you are not allowed to resubmit it after the deadline
 - Please do not delete or alter anything in your