General Information

Instructor
Matt Bishop
Email: mabishop@ucdavis.edu
Office: 2209 Watershed Science
Office Hours: MWF 11:00am–11:50am; or by appointment; or by chance

Teaching Assistant
Yeh-Cheng Chen
Email: ycch@ucdavis.edu
Office: to be arranged
Office Hours: Tu 4:00pm–5:00pm; W 3:00pm–5:00pm in 3106 Kemper

Lectures and Discussion Section
Lecture: MWF 12:10pm–1:00am in 1062 Bainer
Discussion section: to be arranged as needed

Course Outline
Theoretical foundations of methods used to protect data in computer and communication systems. Access control matrix and undecidability of security; policies; Bell-LaPadula, Biba, Chinese Wall models; non-interference and non-deducibility; information flow and the confinement problem.

Course Goals
- Learn about the access control matrix model and its variants, and how it is used to analyze the security of classes of systems;
- Learn about the mathematics underlying security policies;
- Understand the composition of policies;
- Learn about the confinement problem and information flow; and
- Explore other topics of interest.

Prerequisite
ECS 235A, Computer and Information Security. ECS 150, Operating Systems, and ECS 120, Theory of Computation, are strongly recommended

Text

Class Web Site
To access the class web site, go to Canvas (http://canvas.ucdavis.edu) and log in with your campus login and password. Then go to ECS 235B in your schedule. I will post announcements, assignments, handouts, and grades there, and you must submit assignments there. The alternate web site, http://nob.cs.ucdavis.edu/classes/ec/ecs235b-2019-01 has all the handouts, assignments, and announcements.

Grading
Homework is 50% of your grade and the project is 50% of your grade.
Important. The grade E-NWS (sometimes called NWS or NS), which stands for “No Work Submitted”, is no longer a valid grade. In cases where it would have been assigned in the past, we will give a grade of “F”. Please be sure you drop this class rather than submit no work!

Important Dates
First day of instruction: January 7, 2019
Last day to add: January 23, 2019
20-day drop deadline: February 4, 2019
Last day to opt for P/NP grading: February 11, 2019

Version of January 8, 2019 at 12:57 Noon
Last day of instruction: March 15, 2019

**PTA Numbers**
The department policy on issuing PTAs is available at [http://www.cs.ucdavis.edu/blog/pta-policy/](http://www.cs.ucdavis.edu/blog/pta-policy/). If you need a PTA, please read that page, and follow the instructions there.

**Academic Integrity**
The UC Davis Code of Academic Conduct, available at [http://sja.ucdavis.edu/files/cac.pdf](http://sja.ucdavis.edu/files/cac.pdf) applies to this class. For this course, all submitted work must be your own. You may discuss your assignments with classmates or the instructor to get ideas or a critique of your ideas, but the ideas and words you submit must be your own. Unless explicitly stated otherwise, collaboration is considered cheating. Also, remember to cite, and give the source for, anything you copy or paraphrase, as is standard academic protocol. Plagiarism is cheating.

Any cheating will be reported to the Office of Student Support and Judicial Affairs. They will deal with it appropriately.