ECS 235B Module 1 Administrative Material

Let's Get the Hard Stuff Out of the Way

- Adding the class
 - If/when students drop, those on the waiting list will be admitted
 - The department policy controls who gets PTAs; it is available at https://cs.ucdavis.edu/graduate/current-students/faqs-current-grads (scroll down to Registration; the third question is "How do I get a PTA for a class?")
 - I can only issue PTAs in accordance with those directions (ie, only when the department asks me).

- Who we are
 - Instructor: Matt Bishop, office hours: to be arranged
 - TA: Muwei Zheng, office hours Th 2:00–4:00pm
- Goals:
 - Learn about the reference monitor and high assurance systems;
 - 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 and their composition;
 - Learn about the confinement problem and information flow; and
 - Explore other topics of interest.

Prerequisites

- ECS 235A (Computer and Information Security), or knowledge of security commensurate with it
- Recommended: ECS 150 (Operating Systems(; ECS 120 (Theory of Computation)

• Texts:

- M. Bishop, *Computer Security: Art and Science*, 2nd Edition, Addison-Wesley Professional, Boston, MA (2018). ISBN: 978-0-321-71233-2.
- Recommended: R. Anderson, *Security Engineering: A Guide to Building Dependable Distributed Systems*, 3rd Edition, John Wiley & Sons, Inc., New York, NY (2020). ISBN: 978-1-119-64281-7.

Class Web Site

- It's on Canvas; log in there, and go to ECS 235B
- If you don't have access and need it, please email me and I will add you
 - This does not mean you will be admitted to the course!
- Backup web site: http://nob.cs.ucdavis.edu/classes/ecs235b-2021-01

Grading

- Homework is 48% total, and I expect 4 or 5 equally weighted assignments
- Project is 48%, weighted as described in the handout
- Quizzes are 4%; these are given in class, and should be done there; they must be done by 5:00pm Pacific time on the next day
 - They should be very easy if you have been listening!

- General UC Davis resources
 - Cover health and wellness, virtual classroom fatigue, etc.
 - You can also come to me and I will either help or suggest where you can get help
 - Web site: https://ebeler.faculty.ucdavis.edu/resources/faq-student-resources/
- Academic integrity
 - Paramount!!! And plagiarism is a violation of academic integrity
 - Follow the UC Davis Code of Academic Conduct
 - Available at https://ossja.ucdavis.edu/code-academic-conduct
 - I report cheating to the Office of Student support and Judicial affairs; they handle it appropriately

Homework

- Due at 11:55pm on the due date, unless stated otherwise
- Submit it on Canvas
 - We'll give you comments and grades on Canvas too
 - None of this will be on the secondary web site; only on Canvas
- Don't be wishy-washy in your answer
- Write it in good English; be clear and concise
 - An example of a good answer is on the web site
- Submit PDF or text files only; do not submit other formats!
 - Other formats often don't render well across all systems

Homework

- Late policy: initially, no points off
 - I reserve the right to change this if abused
 - I will *not* post answers until *all* turn in that assignment
- Extra credit
 - It is *not* added into your homework score
 - It is used only if your grade is on a borderline (for example, right between an A- and an A; it helps determine which one you get

Term Project

- Goal: get you to explore an area of security in depth
- It can be:
 - Detailed survey or research paper
 - Programming project on validating or working with some formalism
 - Implementing a policy model and formally verify your implementation is correct
- Key rule: pick something that interests you
- Team size: no more than 3
 - If for some reason a team wants more than 3 people, talk to me about it
 - The larger the team, the more I will expect from it

Term Project

Due dates:

- Project selection: January 22, 2021; 10% of project score
- Progress report: February 12, 2021; 20% of project score
- Final project: March 18, 2021, by 3:00pm; 70% of project score
- Only one team member needs to submit these
- Other term members need to submit a short text file saying who is submitting the material

Class

- Zoom fatigue
- Recordings
 - So if you are in a different time zone and can't attend class, you can see the recordings
- Asking questions: speak up!
 - You can raise your hand and I will unmute you
 - You can ask in the chat room and the TA or I will answer