ECS 235B Module 1
Administrative Material
Let’s Get the Hard Stuff Out of the Way

• Adding the class
  • The department policy controls who gets PTAs; it is available at https://cs.ucdavis.edu/graduate/policies (scroll down to “PTA Process and Expectations”)
  • I can only issue PTAs in accordance with those directions (ie, only when the department asks me).
General Information

• Who we are
  • Instructor: Matt Bishop, office hours: *to be arranged*
  • TA: Dechen Gao, office hours: M 9:00qm–11:00am by Zoom

• 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.
General Information

• 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:
General Information

• 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-2023-01](http://nob.cs.ucdavis.edu/classes/ecs235b-2023-01)

• Grading
  • Homework is 50% total, and I expect 4 or 5 equally weighted assignments
  • Project is 50%, weighted as described in the handout
General Information

- 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/](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](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
  • I’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: I will accept homework up to 5 week days late
  • You will lose 10% per weekday late
  • Example: your homework is due Monday and you turn it in Wednesday; that is 2 days late, so your actual score is 80% of what it would have been had you turned it in on time

• 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 5
  • If for some reason a team wants more than 5 people, talk to me about it
  • The larger the team, the more I will expect from it
Term Project

Due dates:

• *Project selection*: January 26, 2023; 10% of project score
• *Progress report*: February 14, 2023; 20% of project score
• *Final project*: March 24, 2023, by 10:00am; 70% of project score

Only one team member should submit these

• *Be sure to name all team members in this submission!*
• Other term members should submit a short note saying who turned it in
Class

• I have asked it be recorded
  • So if you are in a different time zone and can’t attend class, you can see the recordings

• Asking questions: speak up!
  • If you have a question, so does at least half the class
  • Remember, the only stupid question is the one you want answered and don’t ask