

Syllabus

This syllabus is *tentative* and will undoubtedly continue to change as the quarter progresses. If there is a topic you're interested in but not shown, please let me know; I may well change things to cover it. All readings are from the text or are available on Canvas.

- Week 1:** **Dates:** Mar 30, Apr 1, 3
Topics: What are security and privacy
Reading: *text*, §1, 14, 15, 20.1.2.2; [2]
- Week 2:** **Dates:** Apr 6, 8, 10
Topics: Policies and policy modeling
Reading: *text*, §2, 4.1–4.4, 4.6, 5.1–5.2.1, 6.1, 6.2.3, 6.4, 8.3, 8.4
Due: Apr 10: homework #1
- Week 3:** **Dates:** Apr 13, 15, 17
Topics: Cryptography
Reading: *text*, §10, 11.1–11.2, 11.4.2–11.4.3
- Week 4:** **Dates:** Apr 20, 22, 24
Topics: Authentication and access control
Reading: *text*, §13, 16
Due: Apr 24: homework #2
- Week 5:** **Dates:** Apr 27, 29, May 1
Topics: Network security
Reading: *text*, §17.6.2, 28
- Week 6:** **Dates:** May 4, 6, 8 [Midterm exam on May 4]
Topics: Malware
Reading: *text*, §23.1–23.7, 23.9
Due: May 8: homework #3
- Week 7:** **Dates:** May 11, 13, 15
Topics: Penetration testing, vulnerability models
Reading: [1]; *text*, §24.1–24.5
- Week 8:** **Dates:** May 18, 20, 22
Topics: Software assurance, “secure” programming
Reading: [1]; *text*, §19, 31
Due: May 22: homework #4
- Week 9:** **Dates:** May 25, 27, 29 [May 25 is a University holiday (Memorial Day)]
Topics: Laws affecting computer security and privacy
Reading: *to be arranged*
- Week 10:** **Dates:** Jun 1, 3; [California’s primary election is on Tuesday, June 2]
Topics: Election security
Reading: *to be arranged*
Due: Jun 3: homework #5
- Jun 11:** *Final exam: 10:30am–12:30pm*

References

- [1] M. Bishop, “Robust Programming,” *handout for ECS 153A* (Spring Quarter 2026).
- [2] A. Cavoukian, “Privacy by Design: The Seven Foundational Principles,” *The Sedona Conference Institute* (May 2010). URL: https://www.thesedonaconference.org/sites/default/files/conference_papers/Recommended%20%5B08b%5D%20Privacy%20By%20Design_Cavoukian.pdf.