

## Outline for December 8, 2023

**Reading:** *text*, §27.4, 26.1–26.3

**Assignments:** Completed Project, due December 12

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1. Digital forensics
  - (a) Anti-forensics
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2. Intrusion detection
  - (a) Goals
  - (b) Principles
  - (c) Types of intrusion detection systems
  - (d) Measuring accuracy
3. Goals of voting
  - (a) Accuracy of count
  - (b) Integrity of ballot
  - (c) Privacy of voter (both from vote selling and from observation)
  - (d) Auditability
  - (e) Usability, both by voters and by election staff
  - (f) Other requirements
4. Overview of process in Yolo County
5. Where electronic voting systems come in; how they work
  - (a) Optical scanning systems
  - (b) Ballot marking devices
  - (c) Direct recording electronic devices
  - (d) Vote tabulation servers
6. Safeguards
  - (a) L&A testing before distribution
  - (b) Voter-verified paper audit trails
  - (c) Certification and testing
  - (d) 1% mandatory manual recount
  - (e) Risk-limiting audit
7. The U. S. and California certification process
  - (a) HAVA
  - (b) FEC certification guidelines
  - (c) State rules and tests
8. Tests and problems
  - (a) Johns Hopkins paper
  - (b) RABA study
  - (c) California update of voting systems—and the consequences
  - (d) Florida CD-13 election
  - (e) Other problems

(f) California top-to-bottom review

9. Internet voting