

# Lecture 21 Outline

November 7, 2016

**Reading:** [1, 4]

**Assignments:** Homework 3, due Nov. 8 (**changed**); Lab 3, due Nov. 8 (**changed**)

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1. 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
2. Overview of process in Yolo County
3. 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
4. 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
5. The U. S. and California certification process
  - a. HAVA
  - b. FEC certification guidelines
  - c. State rules and tests
6. 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
7. Internet voting
8. Process modeling and election processes