Large Lecture Formats

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Intended Learning Outcomes

• Describe options for incorporating technology into large lecture formats
• Match intended purpose of lecture with choice of technology
• Consider advantages and disadvantages of varying technologies
To what end?

• Technology always in flux
• Transferring information
• Assessing understanding
• Encouraging interaction
• Active versus passive engagement
  – Material
  – Classmates
Options for technology in lecture

• Low-fidelity
  – White boards/chalk boards/black boards
  – Index cards
    • Numbered, lettered, color-coded
  – Overhead transparencies
Options for technology in Lecture

• High fidelity
  – Classroom response systems
    • “Clickers”
    • Smart phones
  – Interactive lecture software
  – Social networking and communication
Classroom Response Systems

- Software + radiofrequency device
- Anonymous responses to a variety of questions
- Bar graph with distribution of the answers
- Immediate feedback for students and lecturer

http://cft.vanderbilt.edu/teaching-guides/technology/clickers
Classroom Response Systems

• Types of questions:
  – Recall
  – Concepts
  – Application
  – Readiness
  – Critical thinking
  – Perspective
  – Opinion
  – Controversy

Derek Bruff, Director, Vanderbilt Center for Teaching
http://cft.vanderbilt.edu/teaching-guides/technology/clickers
Other technologies

- Interactive lecture software
  - Lecture slides
  - In lecture questions using words and images
  - Real time note taking
  - Real time questions/discussion
  - Captures lecture together with notes
Backchannel

• Live-time discussions happening simultaneously during your lecture
• Twitter, Google Moderator, Chat
  – Any others???
• Monitored discussion
Advantages of Tech-lecture

- Engagement with the material
- Participation in the discussion
  - Quiet individuals
  - Adjust lecture to help understanding
- Evidence of improved learning/performance
Challenges of Tech-lecture

• Technology!
  – Software, hardware, networks
• Tech savvy
• Distractions
• Inappropriate comments