

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