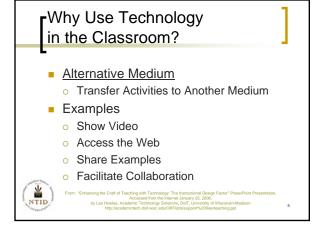


- Why Use Technology in the Classroom?
- Pedagogy, Technology & Instructional Design
- Best Practices for Technology in the Classroom
- Technology Used in NTID Classrooms

# why Use Technology in the Classroom? Improve Access by Deaf Students Examples Materials Specially Designed for Deaf Students Captioning Notetaking Listening Technology







## rWhy Use Technology in the Classroom?

- Only When There is a Reason
  - Educational Solution <u>Before</u> Technology Solution
- Examples
  - Educational Problem
  - Impact on Classroom Management
  - Improve Content Presentation
  - Alternative Presentation of Content



## Pedagogy, Technology & Instructional Design

- Pedagogy
  - o 1: the principles and methods of instruction [syn: teaching method,]
  - o 2: the profession of a teacher



## Pedagogy, Technology & Instructional Design

- Technology
  - o 1: the science of the application of knowledge to practical purposes
  - o 2: Electronic or digital products and systems considered as a group



## Pedagogy, Technology & Instructional Design

- Instructional Design
  - Instructional Design is the systematic development of instructional specifications using learning and instructional theory to ensure the quality of instruction.
  - It is the entire process of analysis of learning needs and goals and the development of a delivery system to meet those needs.
  - o It includes development of instructional materials and activities; and tryout and evaluation of all instruction and learner activities



## Pedagogy & Classroom Presentation

- Classroom Presentation Generally Means a Lecture
- Lectures: an Efficient Way for an Expert to Share Knowledge
- Most Effective When Linked to Other Activities



## Structuring a Lecture

- Consider Audience
- Goals and Learning Outcomes
- Logical Progression for Material
- Structure to Help Students....
  - Take Notes
  - Retain Important Information
- Strong Opening and Closing



Interaction

## Pedagogy, Technology & Instructional Design

- Instructional Design (ID)
  - Recall Definition?
    - ...learning theory...goals....delivery system....development of materials....tryout & evaluation....revision
- ID Can Be Employed to Improve Pedagogy for Classroom Presentations



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#### Pedagogy, Technology & Instructional Design

- Instructional Design\*
  - Analysis/Objectives
  - Instructional Strategy/Materials
  - Formative/Summative Evaluation
- Educational Technology and Teaching
  - o <a href="http://www.rit.edu/~pen2">http://www.rit.edu/~pen2</a>
  - o <a href="http://mycourses.rit.edu">http://mycourses.rit.edu</a>



\*Gagne, Briggs & Wager 1992, Principles of Instructional Design.

## Pedagogy, Technology & Instructional Design

- Events of Instruction and Processes of Learning\*
  - Get Attention/Share Objectives
  - Present Material/Guide Learning
  - o Performance/Feedback
  - Assess Performance/Retention & Transfer



\*Gagne, Briggs & Wager 1992, Principles of Instructional Design.

# Pedagogy, Technology & Instructional Design

- What do you want students to do?
- Not how they will spend their time or what you will cover in class;
  - What evidence do you want to see that proves students have met the learning outcome you specified?



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# Pedagogy, Technology & Instructional Design

- Integrating Technology & Your Teaching
- What is the Most Appropriate Technology?
  - What is Available!!!
- Design Presentation Based on Good Instructional Design and Processes



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# Presentation Format Selection Process

- Choose a Method of Instruction
- Choose a Media Format
- Obtain Materials
  - Obtain Available Materials
  - Modify Available Materials



Design New Materials



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