

TEACHING & LEARNING

- o "You can't learn anybody anything." Michael Allen
- o Teaching is external
- o Learning is an internal process
- o Progress is measured by external manifestations
 - Papers, tests, projects

A BRIEF & SKETCHY HISTORY OF EDUCATIONAL TECHNOLOGY RESEARCH

- o Media Comparison
 - Video vs. Teacher
 - Teacher vs. Slide Tape
 - Slide Tape vs. Video
 - Teacher vs. Computer
- Media is like a truck?
- John Henry EffectHawthorne Effect
- Novelty Effect
- Face-to-face vs. Online Learning?

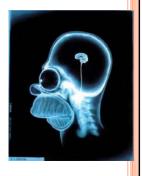
GOOD INSTRUCTION IS GOOD INSTRUCTION



http://www.brad.ac.uk/acad/archsci/depart/graduation/grad2000/grad0700_staff.jpg

My favorite quote

- o "If teaching was telling we'd all be so smart we wouldn't know what to do."
 - Robert Mager



THE TELLING PART

 One of Nine distinct elements associated with instruction



THE EVENTS OF INSTRUCTION

- o Robert Gagne
- o 9 things that have to happen in successful instruction
 - Sometimes explicitly, sometimes implicitly
 - Don't have to follow this order



THE EVENTS OF INSTRUCTION

- gaining attention (reception) To ensure reception of coming instruction we give the learner a stimulus informing learners of the objective (expectancy). Tell the learner what they will be able to do because of the instruction stimulating recall of prior learning (retrieval) Ask for recall of existing relevant knowledge

- PRESENTING STIMULUS
- providing learning guidance (semantic encoding) helping the learner move through the content
- (semantic encoding) neiping the realise in the Calledon eliciting performance (responding) Ask the learner to respond, demonstrating learning
- providing feedback (reinforcement) Give informative feedback on the learner's performance
- assessing performance (retrieval) Require more learner performance, and give feedback, to reinforce learning
- enhancing retention and transfer (generalization) Provide varied practice to generalize the capability

Robert Gagne, The Conditions of Learning.

AN EXAMPLE: THIS SESSION

- . Gain attention Not much for you
- 2. Identify objective In the title, done in the emails from Suzanne
- 3. Recall prior learning Ask what you know about teaching f2f
- 4. Present stimulus PowerPoints, lectures, demos
- 5. Guide learning Discussions, examples
- 6. Elicit performance Worksheets on class content
- Provide feedback Check examples, answer questions
- 8. Assess performance- I won't do this, really
- Enhance retention/transfer Offer to be available after the workshop



INSTRUCTIONAL DEVELOPMENT MADE EASY: ADDIE Analysis – who, what, where, why Design – blueprint for instruction

Development – creating & selecting

mplementation – using it with learners

Evaluation – formative & summative

ANALYSIS: AFFORDANCES OF ONLINE LEARNING • Strengths & Weaknesses • Advantages & Disadvantages • Worksheet One

Design: The First Week
 Worksheet 2 What do you do in a face-to-face class? Worksheet 3 Does this change in an online class? Should it? What tools/skills do you need to have to make the changes?

DEVELOPMENT: SELECTING MATERIALS

- o Course packs from publishers
- o Google
- o http://merlot.org
 - http://www.merlot.org/merlot/viewMaterial.htm?id= 90081 (DNA from the beginning)
- o <u>http://youtube.com</u> (yes, youtube)
 - http://youtube.com/watch?v=NxZYwcoBPhA (how the lowa Caucus works)
- Wikihow
 - http://www.wikihow.com/Main-Page
 - o http://www.wikihow.com/Get-a-Professor-to-Change-Your-Grade



DEVELOPMENT: CREATING YOUR OWN MATERIALS

- o Actually, my materials...
- Reusable Learning Objects
 - http://coe.winthrop.edu/educ275



DEVELOPMENT: CREATING YOUR OWN MATERIALS

- o PowerPoints with the notes page option
- o Papers
- Audacity
- o iMovie
- Windows Movie Maker



IMPLEMENTATION: ISSUES

- The course goes constantly
 - Constant/instant access changes expectations
- Solutions
 - Establish expectations up front
 - Create safe days
 - Rethink the weekly format



http://www1.istockphoto.com/file_thumbview_approve/2697522/2/istockphoto_2697522_around_the_world_non_stop.jp

IMPLEMENTATION: ISSUES

- o So many students; so little time
 - Communicating in text is difficult and time consuming
- Solutions
 - Save answers to common questions
 - Feedback templates
 - Use groups
 - Talk more; type less



http://www2.davidson.edu/news/news_archives/archives01/01.08orientation/P1011767.JPC

IMPLEMENTATION: ISSUES

- o Students feel isolated
 - With out weekly f2f, students drop out
- Solutions
 - Groups
 - Skype
 - Online office hours
 - Telephone



http://www.fotosearch.com/ARP109/isolated/

IMPLEMENTATION: ISSUES

- Technical problems
 - My (insert whatever) doesn't work
- Solution
 - Technical issues forum
 - Know tech support numbers
 - Not your problem



EVALUATION: FORMATIVE

- Monitoring for problems
- A bulletin board forum
- Formal informal evaluations
- o Changing as needed



EVALUATION: SUMMATIVE

- o Course evaluation forms
 - F2f or Online?
- o Did they like the soup?
- Can they tell if the soup is good?



http://www.myceon.com/hrd/id/learn/evaluate/04.htm

EVALUATION ISSUES • Examine current forms • Can you use them? • Should you use them? • Not a questions should be asked? • Not a rhetorical question, you tell me FINAL THOUGHTS • When we get here I'll see if I have any

http://www.aperfectworld.org/emotions.htm