


Extra Credit (20 points)


Attend a ITEC Student Tech Fair

- Thurs, April 15
- 9 – noon in Commons
- Visit 2 table displays
 - Summarize topics
 - Impact teaching/learning
 - Use in your future classroom



Educational Technology Minor

Expand your Technological Background



Dr. Tim Taylor
Deputy Supt, Ames




Educational Technology Minor

17 - 18 credits

Required - 8 - 9 hours:

- Educational Tech & Design
- Classroom Computer Applications
- Technology in Education

www.uni.edu/coe/ci/edtechminor




Educational Technology Minor

Elective - 9 hours:

- Visual Literacy
- Media Planning & Production
- Digital Imaging
- Digital Instructional TV Production
- Emerging Instructional Technologies
- Principles of Publication Design
- Media Projects

www.uni.edu/coe/ci/edtechminor



Assistive Technologies

Dr. Leigh Zeitz
Educational Technology & Design

Plan for Day

- ♦ Define *Assistive/Adaptive*
- ♦ Low-tech adaptations
 - Needs and examples
- ♦ High-tech adaptations
 - Needs and examples



Assistive Technology?

“includes assistive, adaptive, and rehabilitative devices for people with disabilities and includes the process used in selecting, locating, and using them.”



Universal Design for Learning (UDL)

“A curriculum should include alternatives to make it accessible and appropriate for individuals with different backgrounds, learning styles, abilities, and disabilities in widely varied learning contexts.”



Universal Design for Learning (UDL)

- ♦ The "**universal**" in universal design does not imply one optimal solution for everyone.
- ♦ It is the "**appropriate**" solution for individuals.



UDL calls for multiple . . .

- ♦ Means of representation
- ♦ Means of action & expression
- ♦ Means of engagement



It's the Law!



- ♦ American Disabilities Act of 1990
 - Special needs must be addressed
- ♦ Individuals with Disabilities Act of 1997
 - Regular educator must be part of a multi-disciplinary team
 - Determine placement and services of special needs students
 - Use appropriate assistive technology




What Adaptations Do You Know?

- ♦ Turn to your neighbor or *CovertLive*
- ♦ Discuss any adaptations that:
 - You have used
 - You have seen
 - You envision using in your classroom

Low Tech Adaptations

- ◆ Adaptations don't need to be expensive!
- ◆ It's application, not cost that is the answer.




www.thepencilgrip.com

Let's look at some Low Tech Adaptations

High Tech Adaptations


- ◆ Everyday Computer-Based Adaptations
- ◆ Specialized Adaptations



www.apple.com/macosex/

Impairments

- ◆ Low Vision
- ◆ Blindness
- ◆ Learning Disabilities
- ◆ Mobility Impairments



www.iowa-braille.k12.ia.us

Adaptations - Low Vision

- ◆ Operating Systems Adaptations
 - Apple OS X - Universal Access
 - Visual - Zoom/Contrast
 - Audio - Flash Screen/Speech Synthesis
 - Keyboard - Sticky Keys
 - Mouse - Speed/Clicking

Adaptations - Blindness


- ◆ Books on Tape
 - Recordings for the Blind & Dyslexic
 - www.rfbd.org
- ◆ Open Book
 - Speaking scanned text
 - www.freedomscientific.com

Adaptations - Learning Disabilities

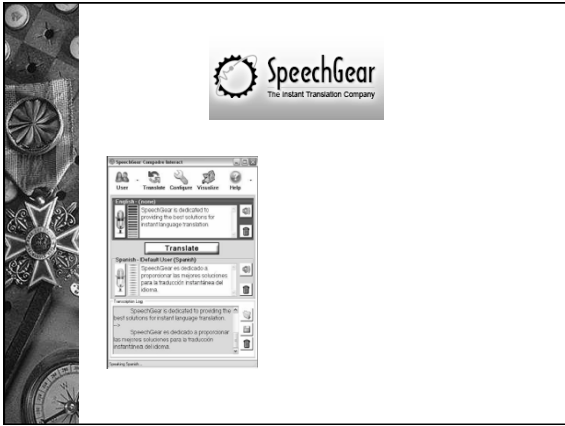
- ◆ Co:Writer
 - Word prediction typing
- ◆ Read & Write
 - Speech Synthesis



www.donjohnston.com




www.texthelp.com




iPods in Special Ed

- ◆ Louisa Muscatine Elementary



Adaptations - Mobility Impairments

- ◆ Intellikeys
 - Alternative keyboard
- ◆ Stickykeys
 - Key combination adaptation
- ◆ Input Devices
 - Roller Balls
 - Switches



www.intellikeys.com

www.qedltd.com