ALL ACCESS

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and
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JAWS

- JAWS, Job Access With Speech, is the world's most popular screen reader, developed for computer users whose vision loss prevents them from seeing screen content or navigating with a mouse. JAWS provides speech and Braille output for the most popular computer applications on your PC.

- JAWS for Windows 20th Anniversary Video - 2015
Challenges for Blind and Low Vision Students/Instructors

- Some of the challenges faced by blind and low vision college students are navigating the college website and the Course Management System (CMS) such as Black Board and Canvas with their adaptive computing software. “Most of the adaptive technologies used by blind individuals only navigate the Internet in a linear and serial pattern. Yet, web designs are increasingly incorporating Java-based hypermedia and multimedia elements with various sophisticated visual elements such as graphics and pop-up windows. The conflicts between the linear navigation of adaptive software and the trend of non-linear web designs frustrate, demoralize, and limit blind users from accessing and using information, which sometimes results in abandoning their educational pursuits” (Lin & Muwanguzi, 2010).
ADDIE can be completed in order or any order of steps. ADDIE is built for continuous revision; therefore, it is one of the greatest strengths of the instructional design process.

- Analyze
- Design
- Development
- Implement
- Evaluate

ADDIE Model (c) FAV203, CC BY SA 3.0
Goal/Objective

- **Goal:**
  - Instructor will identify key elements of accessibility.
  - Instructor will learn course design.

- **Objective:** Upon completion of teaching and designing ACA 122 during Fall 2017, the instructor will be able to
  - Evaluate the accessibility of Moodle 3.1 as demonstrated through his interactions.
  - Create an accessible Moodle course as demonstrated through his ACA 122 course.
## Analyze

### Questions

- What problem exists or what change is being requested?
- Who is being asked to change?
- What is currently taking place with the individual being asked to change?
- Who identified the problem or is requesting this change?
- Where will the solution or change need to take place?
- Is the instruction the most appropriate means for solving the problem or bringing about the desired change?
- What is the solution to be developed and implemented?

### Answers

- Legally Blind Instructor
- Instructor
- No Help is being Offered
- Instructor
- Moodle
- No/Need Instruction/Need Accessible Technology
- Collaboration (Instructor and DL Department)
Design (Course Information: Syllabus and Schedule)
Design (Headings/Restrict Access/Weekly Assignments)
Design (Instructor Resources)

Publisher Resources (Not Accessible)

Supplemental Resources (Had to be found or Created to be Accessible)
Design – Course Copy
Design - Accessibility

Accessibility Documents Located on Google Drive. Can be Downloaded.

- Making PowerPoints Accessible
- Making Multimedia Files Accessible
- Making a PDF File Accessible

Accessibility Logo (c) Christy Blew, CC BY NC SA 3.0
Development – Menu Button

- “Access hidden side bar block region... Menu”
- Administration only has 3 Items
- Navigation only has 5 Items
- Can not Access the Menu Items
- Sometimes JAWS can not escape the Menu Button
- Does not State when Menu Button is Closed
Development – Bottom of the Page

- Does not state when the user is at the bottom of the Moodle page
- But on the screen, the user is located at the top of the screen.
Development – Restrict Access

- Can Not add Restrict Access
- Restrict Access Must be Added
  Before I can edit the Restrict Access
Development – Gradebook Setup
Implement - New Grading Feature

- Can only grade one student at a time
- Can not move to the next student
- Must go to View all Submissions to go to Next Student
- Can not use Annotation Features
Implement – View all Submissions - Grading

- Can Enter Grades on View All Submissions for Each Assignment
- To access Gradebook, click the dropdown menu on Grading Action within an individual assignment. Click on View Gradebook. Click on Single View to also enter Grades.
Implement – Excel Spreadsheet
Evaluate – My Course

■ December 2017
- Analyze the Instructional Goals and Objectives
- Interview (Discuss the challenges and struggles)
- Determine if the instructor was successful and decide what steps need to be taken to update his Spring 2018 courses
Evaluate – Fellow Instructor
The following issues occurred:

- The box titles are only read such as Syllabus Quiz, Chapter 14, etc...
- The pictures are not identified such as Module 1, Module 2, etc...
- The boxes are not labeled as headings.
- Once entered into a box, the box opens into a pop-up window. No headings are within the pop-up window. It is hard to navigate.
Evaluate – Fellow Instructor Part 3

- PHET Interactive Simulations (Chemistry) – Balloons and Static Electricity
  - Not Accessible
E-learning and Accessibility Tips

1. Increase
   - Increase knowledge through in-depth professional development (Distance Learning/E-learning Department and Disability Service Department)

2. Make
   - Make accessibility a priority by administration

3. Create
   - Create Guidelines about the Accessibility of e-learning

4. Evaluate
   - Evaluate Software before Purchasing/Involve the IT Department/Continue Evaluating throughout Updates
Resources

- Comparison of Learning Management System Accessibility


QUESTIONS
Thank you for attending!!

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