UMKC Focus on Assessment Conference

Session: Tools for Complete Collaborative Course Design from Assignments to Outcomes

Remember: ALAMO - a tool for: Assessment Linking and Mapping Outcomes

There will be a quiz!

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Exploring **ALAMO** a tool for:

- Assessment
- Linking
- And
- Mapping
- Outcomes

Due to the short time slot today – PLEASE hold your Q’s to the end Q&A session!
ALAMO Visualization Overview

• This is a presentation where I will be demonstrating:
  • An original technique I developed which uses a cloud-based app (Mindomo.com)...

• Where faculty and/or instructional designers can collaboratively map, link and align any combination of:
  • Lesson Outcomes (LO per multi-(aka.) ‘week’ or ‘unit’ level)
  • Course Outcomes (CO level)
  • Program Outcomes (PO level)
  • Accreditation Outcomes (can map multiple external accreditors)

• Builds into a clear and effective visual diagram.

• This visual mapping can clarify course outcome alignment strengths and weaknesses while also graphically illustrating the overall course pedagogical design.

• One (course map) picture is worth a thousand words.
Outcomes for this session:

- Participants will gain awareness via exploration of new and effective collaborative course-building and assessment mapping technique named “ALAMO”
- ALAMO has multiple uses for curriculum planning, course design, course reviews (individually or by teams) among other uses.
- These techniques use free and low-cost cloud-based apps that participants can use and deploy upon returning to their institutions.

**Cloud-based App: Mindomo.com** - 1st 3 maps Free, or educational discounts available for individuals, teams or classes
  - Lots of ‘in class’ collaborative mapping techniques for other uses too!
  - There are lots of other Mind-Mapping Apps and websites out there, this one is unique for ALAMO.
Why VISUALIZE?

- This is now the AGE OF VISUALIZATION where 65% of the population is visual learners.
- We can get the sense of a visual scene in less than 1/10 of a second.
- 90% of information transmitted to the brain is visual.
- Visuals are processed 60,000X faster in the brain than text.
- Other studies have found that visuals improve finding patterns and relationships.

Why VISUALIZE?

Sample ORG Chart – A visual hierarchical ‘mapping’
Map Examples... Job Desc. and a ‘Course Competencies’ List

• “Develop and maintain curriculum maps that show the alignment (linking) of program outcomes, standards, competencies, and assessment strategies”

• A #’d Course Competencies (Outcomes) Example (WGU):

<table>
<thead>
<tr>
<th>Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course provides guidance to help you demonstrate the following 6 competencies:</td>
</tr>
<tr>
<td>• Competency 400.1.1: Fundamentals of Core Programming</td>
</tr>
<tr>
<td>The graduate analyzes core elements and tools used in the design and trace of computer programs.</td>
</tr>
<tr>
<td>• Competency 400.1.2: Fundamentals of Object-Oriented Programming</td>
</tr>
<tr>
<td>The graduate applies the key principles of object-oriented programming.</td>
</tr>
<tr>
<td>• Competency 400.1.3: Fundamentals of Software Development</td>
</tr>
<tr>
<td>The graduate applies lifecycle management activities to the development and testing of software applications.</td>
</tr>
<tr>
<td>• Competency 400.1.4: Fundamentals of Web Applications</td>
</tr>
<tr>
<td>The graduate applies core elements and tools for developing Web applications.</td>
</tr>
<tr>
<td>• Competency 400.1.5: Fundamentals of Desktop Applications and User Interfaces</td>
</tr>
<tr>
<td>The graduate applies fundamental principles, concepts, and tools used in the development of desktop applications and user interfaces.</td>
</tr>
<tr>
<td>• Competency 400.1.6: Fundamentals of Databases</td>
</tr>
<tr>
<td>The graduate applies fundamental principles, concepts, and tools used in the development and management of relational databases.</td>
</tr>
</tbody>
</table>
San Antonio College: Astrophysics 1304

Text-based outcome map example:

Source: https://campustehnology.com/articles/2015/05/20/a-simple-diy-approach-to-tracking-and-improving-student-learning-outcomes.aspx
ALAMO Demo:

- *Basic Steps for Course Mind Mapping (doc avail upon request).*
- First, collect objectives (outcomes) you would like to map and collect text versions suitable for copying into the clipboard from. A “pseudo” collection of these docs are attached in the Appendixes = GA201 Graphic Design and Typography Principles Course.
- Usually, the map levels will be arranged hierarchically ‘top down’ (*levels can be arranged later). You do not have to associate the relations at this stage.
  - Typical levels include (but are not limited to):
    - College/University Level outcomes (*Top Most Level)
    - External Accreditors Outcomes (Nursing, ACBSP, etc.)
    - Program Level Outcomes (Business, CJ, Graphic Arts, etc.) (Next Level Down)
    - Course Level Outcomes (At the conclusion of this course, learner should be able to...)
    - Unit Outcome Level (At the conclusion of this lesson, learner should be able to...)
    - Activity Level (At the conclusion of this assignment, learner should be able to...)
Mindomo – Program Level Outcomes – PLO

• (2.1.2 on handout)
PLO + Univ. Level (ULO)

- (2.1.1/2.1.2 on handout)
- 2 Levels PLO (lower) + ULO and AO (Upper levels)
Some things to note...

- Color Coding | icons (built in)
- ‘Collapse/Open’ cells with (+)
PLO + ULO + CO levels

- (2.1.4 on handout) – note: as many cells as you like.
PLO + ULO + CO levels

• (2.1.4 on handout) – note: as many cells as you like.
PLO + ULO + CO levels

- (bottom of Page 2 on handout, see GA.201.CO.1)
PLO + ULO + CO levels

• (Page 3 on handout, see GA.201.CO.1)
Summary

• This was a presentation at UMKC's 'Fall 2016 Focus on Assessment Conference' where I demonstrated a unique technique I developed which uses a cloud-based app (Mindomo.com) where faculty and/or instructional designers can collaboratively map, link and align course, program and accreditation outcomes to assignment outcomes in a clear and effective visual diagram, called the ALAMO technique.

• This visual mapping can clarify course outcome alignment strengths and weaknesses while also graphically illustrating the overall course pedagogical design.

• One (course) picture is worth a thousand words.

• Questions or if would like the ‘How To’ tutorials (free): Contact: Greg.Rose@Park.edu