Pedagogical Considerations for Building a Course

KATY LITTLE | DIRECTOR OF INSTRUCTIONAL TECHNOLOGY | TILT

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ADDIE MODEL

- Analysis
- Design
- Implementation
- Evaluation
- Development
Gaining attention

- Convey information that rouses the learner’s interest
- Use various elements to attract attention
  - Multimedia (videos, images)
  - Scenarios
  - Problem statements
  - Case studies
Inform Learners of Objectives

- Convey what is to be learned
- List objectives
Measureable Learning Objectives

Bloom’s Taxonomy

- **Create**
  - Produce new or original work (design, assemble, construct, conjecture, develop, formulate, author, investigate)

- **Evaluate**
  - Justify a stand or decision (appraise, argue, defend, judge, select, support, value, critique, weight)

- **Analyze**
  - Draw connections among ideas (differentiate, organize, relate, compare, contrast, distinguish, examine, experiment, question, test)

- **Apply**
  - Use information in new situations (execute, implement, solve, use, demonstrate, interpret, operate, schedule, sketch)

- **Understand**
  - Explain ideas or concepts (classify, describe, discuss, explain, identify, locate, recognize, report, select, translate)

- **Remember**
  - Recall facts and basic concepts (define, duplicate, list, memorize, repeat, state)
Present Content

- Stimulate prior knowledge
- Align your content with your objectives
- Provide clear guidance and instructions
- Chunk your content
- Use a variety of elements to present content
- Tie your content to the real world
Provide Opportunities for Practice and Feedback

- Practice makes perfect
- Let learners know how they fared during the learning
- Include de-briefing sessions, feedback, rubrics, etc.
Assess Performance

- Assess learner performance to confirm whether instruction was effective
- Revise your course accordingly
Example: Canvas Page Layout

- Overview
- Learning Objectives
- Readings/Lectures
- Discussions/Activities
- Assignments
Example: Module Template

Module #:
Title:
Add some introductory text to discuss this module

Objectives

1. Describe this
2. Define that
3. Identify this

Readings

1. Reading 1
2. Reading 2
3. Reading 3

Lectures

1. Lecture
2. Handout

Assignments

1. Discussion
2. Quiz:
3. Assignment:

Estimating Stature from Skeletal Remains

In the picture we see two gymnasts. Athlete Simone Biles stands by the window while swimmer Michael Phelps is visible. Biles and Phelps represent the peak of their sport, showcasing the athleticism required for success.

Stature estimates can be obtained using several methods. Either by measuring all the bones and summing their lengths, which will be the most accurate, or using some type of regression equation, assuming the heights are within a certain range. These both work because there is a very strong relationship between stature and long bone length.

Something to keep in mind is that within humans, there is a great deal of inter-populational variation. In some populations the degree of sexual dimorphism may be high and in others the degree of dimorphism may be very low. Thus it is important to consider which population you are working with and which regression standards you are using. Additional, if you're working with individuals 12 years of age because their bones are still growing.
TILT Resources

- Visit the TILT Web site for:
  - Teaching effectiveness in online courses
  - Teaching effectiveness in face-to-face courses
  - Registration for professional-development courses, modules, Webinars and other events