A Chance Explanation
Universal Design for Learning in Quantitative Research Methods

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Overview
• UDL & me, a brief history
• UDL cohort and course improvements
• A chance explanation about power

Syllabus Improvements
• word, optimal accessibility
• links to university policy (accessible web)
• grade scale in points

Self Assessment: Excel File

Official Class Quizlet
• Positive
  • Embrace the technology
  • Get out in front
  • Students are very comfortable

• Negative = Learning Opportunities
  • Over reliance on distilled pieces of information
  • "need for discussions on Quizlet"
  • Definitions are a starting point
UDL cohort and course improvements

• Work with a partner in class
  • Saying it out loud reveals areas needing improvement
  • Talking with a partner is more comfortable
  • Promotes collaboration
  • Work with multiple groups to develop an answer

• Remember
  • Quiz each other
  • Say the answer out loud
  • Have the group ask a question
  • This is EXACTLY what will be on the exam

Test Day -> Assessment Day

• Test day
• Grade their own exam & ask questions
• Course Assessment

Test Day -> Assessment Day

How Do You Study?

1. Multiple exposures -> self directed clarification
2. Multiple exposures > self directed clarification
3. ...

POWER CURVE

Common Vocabulary

• Sample Size: number of people in your study

• Effect Size: How big of a difference did you make
  • Big effect size: everybody increased exercise 20 minutes a day
  • Small effect size: on average increase 5 mins/day of exercise

• Type II Error: You said no statistical effect, but there was!
  • Side effects
  • New therapy treatment

• Power: likelihood a study will detect an effect (0-1)
  • Higher power, lower probability of a type II error
  • Low power, lower probability of a type II error

Dr. Jerome Owns it

• Quickies
  • Answer to one question
  • Include discussion items
  • Set up different groups
  • Better organized?

• Try to two students who helped me improve them

Test Day -> Assessment Day

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POWER CURVE

• Sample size for homework
  • ES = 0.2
  • ES = 0.3
  • ES = 0.4
  • ES = 0.5
  • ES = 0.6
  • ES = 0.7
  • ES = 0.8

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