Challenges of Quantitative Reasoning Assessment

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After almost 20 years, I can tell you: > Teaching faculty must be involved > One size does not fit all > We need to be intentional > There is no easy way to do this













## What Did We Learn?

- >Populations can be defined at many levels:
  - ➢Classroom of students
  - >Students in a given major
  - >A university general education program
  - > High school students across the nation
  - >Adult learners
- >Each level involves very different inferences
- Each requires different sampling



























Assessmen

- This is the hardest step!
- In order to create a successful assessment program, clear program goals and objectives must be established and agreed upon.

Objectives drive the assessment process; assessment methods are based on the objectives that are being measured.

Student learning objectives form the assessment engine!







## Stage 5: Using Information for Program Improvement

• This is where the infrastructure must come into play

- Committees that work, not just meet
- This SHOULD be intellectually stimulating!
- Involves feedback from faculty members and careful consideration of the assessment results

## I meet with QR/SR faculty every 2 weeks!!

• Examples of using information for program improvement: curricular change, resource allocation or reallocation, changes in instructional delivery and emphasis; course resequencing





## What Have We Learned? Here are a few more findings: Entering 1<sup>st</sup> year students are not a pre-test Students do change significantly with more related course work Correlations between QR scores and Grades in QR courses are positive Students completing their QR course work don't perform to the level our faculty would like AP and JMU grades are good predictors of QR

≻Transfer credit hours are not



