Institutional Assessment: Sampling and Statistics
Office of Institutional Research and Assessment (OIRA)

Key Questions
What are some sampling practices recommended in outcomes assessment?
What are some statistics recommended in outcomes assessment?

Current APR Expectations

<table>
<thead>
<tr>
<th>Student Learning Outcomes (SLOs)</th>
<th>Operational Outcomes (OPOs)</th>
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Sampling

"Collect enough evidence to feel reasonably confident that you have a representative sample of what your students have learned and can do. The sample should be large enough and representative enough that you can use the results with confidence to make decisions about a course or program. And take careful steps to ensure the accuracy and truthfulness of your assessment findings."

Linda Suskie in Assessing Student Learning: A Common Sense Guide

Sample = ?

• How many students are eligible?

• How complex is the work being assessed?

• How many faculty are available?

Recommended sizes for 95% confidence level available at http://assessment.aa.ufl.edu/sampling-size-chart

Minimum of 10% or 10 artifacts, whichever is greater.

Sampling Methods

#1 Simple Random Sampling
#2 Stratified Sampling
#3 Systemic Sampling
#4 Cluster Sampling
Sampling Methods

1. Simple Random Sampling
2. Stratified Sampling
3. Systemic Sampling
4. Cluster Sampling
Sampling = Yes

Include in the Assessment Method

✓ a rationale for the decision and

✓ a thorough description of the sampling process.

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Statistics

Descriptive

- Mean and standard deviation
- Frequency percentages

Inferential

- Analysis of variance
- Correlation
- Regression analysis
- Tests of significance
Statistics

Descriptive
- Mean and standard deviation
- Frequency percentages

Comparisons over populations or over time
Identifying areas of strength or areas for improvement

Inferential
- Analysis of variance
- Correlation
- Regression analysis
- Tests of significance

Population/sample size
Number of data points
Specific results
Key Questions

What are some sampling practices recommended in outcomes assessment?

What are some statistics recommended in outcomes assessment?

More Questions?

Visit the OIR website. (Search OIRA from the UAH Website. Click on Assessment then Resources.)

Contact Ginny Cockerill at gdc0004@uah.edu or x. 6254.