## College of Arts & Sciences

Assessment Workshop April 20, 2004

# In other words, NCA and other constituents are looking for:

- Evidence of broad participation by faculty <u>and</u> students in the development of Assessment Student Learning (ASL) programs.
- Evidence that we are <u>clear about expectations for learning outcomes</u> and that we are <u>communicating that to students</u>.
- Evidence that students (as a group) are learning from those learning opportunities.
- Evidence that we are <u>using the results</u> of our ASL activities <u>to improve student learning.</u>

# Common Reactions to Assessment Initiatives

- Ignoring it
- Bribing someone else to do it
- Complaining about it
- Losing sleep over it
- Sitting down and writing it

## Big Mistakes in Assessment

Assuming that it will go away

Trying to do too much, too soon

• Expecting to get it right the first time

Not considering implementation issues when creating plans

## Big Mistakes in Assessment

• Borrowing plans and methods without acculturation

Demanding statistical research standards

Doing it for accreditation instead of improvement

## Big Mistakes in Assessment

• Confusing institutional effectiveness with student learning

Making assessment the responsibility of one individual

• Assuming collecting data is Doing Assessment

# Student Learning Outcomes

## Student Learning Outcomes

- Student Learning Outcomes
  - The <u>knowledge</u>, <u>skills/abilities</u>, and <u>attributes</u> we want our students to be able to demonstrate.
    - From their learning experiences both curricular and co-curricular activities.

# Characteristics of Student Learning Outcomes

### They are:

- Learner Centered
- Specific
- Action oriented
- Cognitively Appropriate

## Student Learning Outcomes

#### **Basic Format:**

Students will be able to

#### Example:

• Students will be able to <u>apply</u> research methodologies to <u>examine issues within the discipline</u>.

**EVALUATION** COMPREHENSION **APPLICATION SYNTHESIS KNOWLEDGE ANALYSIS Associate Appraise Arrange** Cite **Analyze** Classify **Apply** Assess **Assemble** Count **Appraise** Compare Calculate Choose Collect **Define** Calculate Classify Compute Compare Compose **Draw Demonstrate** Categorize Contrast Criticize Construct **Determine** Identify Classify Differentiate **Determine Dramatize** Create List Compare **Discuss Employ Estimate** Design Name **Debate Distinguish Examine Evaluate Formulate Point Diagram** Illustrate **Estimate** Grade Integrate Quote Interpret Differentiate **Explain** Judge Locate Manage Read Distinguish **Express** Measure **Operate Organize** Recite **Examine Extrapolate** Order Rank Plan Record **Experiment** Interpolate **Practice** Rate **Prepare** Repeat **Identify** Report Locate Recommend **Prescribe** Select Restructure Inspect **Predict** Revise **Produce Schedule** State **Inventory** Report **Score** Sketch **Propose Tabulate** Question Restate Solve Select **Specify** Tell Separate Review **Translate Standardize Synthesize Trace Summarize** Use Tell **Test** Write **Underline** Write **Test Translate Validate** Hatfield, 2004 (adapted from Bloom's Taxonomy)

## Example #1

Gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected

**BETTER:** Students will be able to apply factual information to a problem.

#### **COMPONENTS:**

Relevance Clarity Comprehensiveness Aware of Bias

## Hands-on Exercise #2

#### Students will be able to:

Imagine and seek out a variety of possible goals, assumptions, interpretations, or perspectives which can give alternative meanings or solutions to given situations or problems.

## Worksheet for Exercise #2

• Better (rephrasing):

**Key Components:** 

### Possible Answer

**BETTER:** Students will be able to <u>provide</u> alternative solutions to situations or problems.

#### **COMPONENTS:**

Assumptions

Perspectives

Interpretations

Analysis of comparative advantage

# Lessons Learned/ Learning Outcome Rules

- Use **one** cognitive level
- Focus on outcomes, not processes (focus on what, not on how)
- List **single** accomplishments
- Do not indicate level of quality (effective)

# **University Mission & Student Learning Outcomes**



College Mission & Student Learning Outcomes



**Department or Degree Program Student Learning Outcomes** 

Degree Program
Learning
Outcome

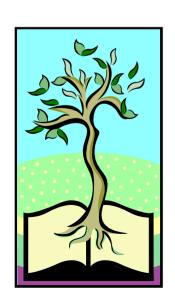
Degree Program
Learning
Outcome

Degree Program
Learning
Outcome

Degree Program
Learning
Outcome

Accreditation reviewers praise institutions' assessment programs that "have clearly linked their assessment activities to their own statements of purpose and goals, and to their objectives for student learning, and in which all of these are reflective of relevant portions of the Institution's Mission and Goals statement and its published educational purposes." (Lopez, 1996.)

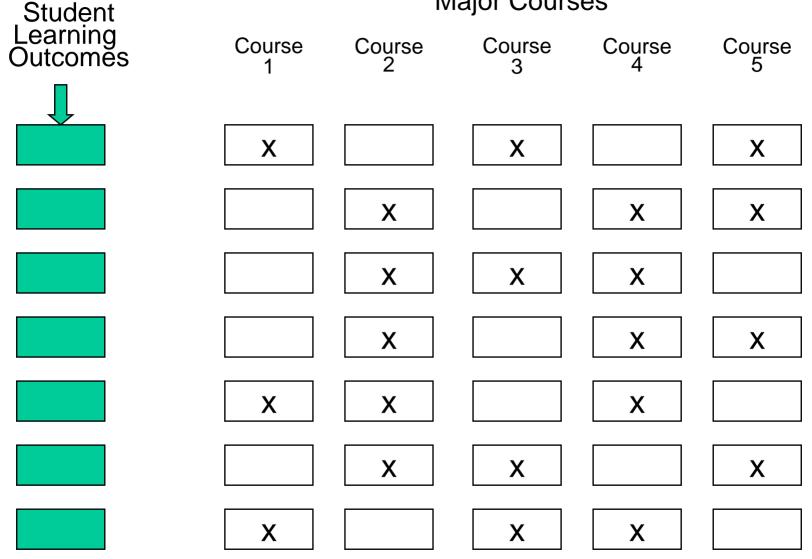
# Identify the Assessment Points in the Curriculum



• Where do you want to target your assessment efforts?

#### Example 1

#### **Major Courses**

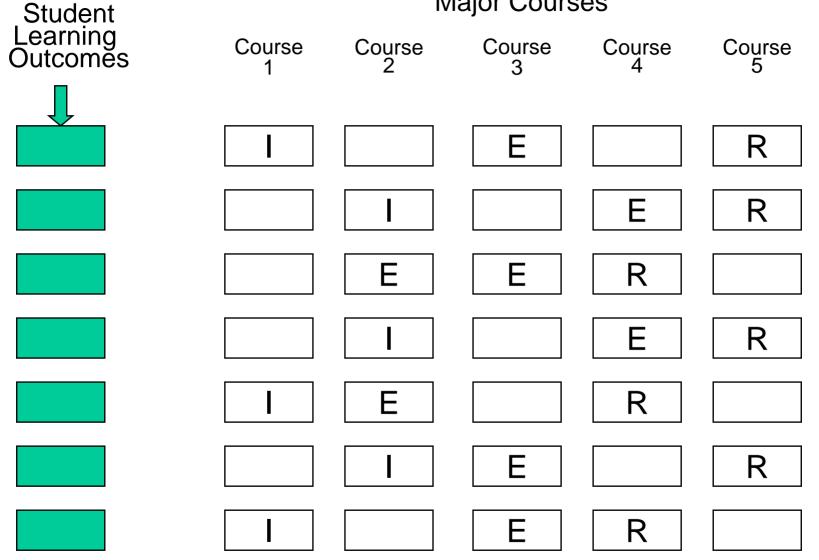


Legend: x = outcomeaddressed in the course

We can identify where in the curriculum the student learning outcomes are developed.

#### Example 2

#### **Major Courses**



Legend: I - Introduce

E - Emphasis

R - Reinforced

We can identify where in the curriculum the student learning outcomes are introduced, emphasized or reinforced.

Memo

**Journal** 

Literature Review

Letter

Writing (student learning outcome)

Poster

**Pamphlet** 

\*Mechanics \*Style \*Voice \*Structure

Essay

Post Analysis

Application Paper

Critique

Hatfield, 2004

# Questions?



## **Materials for Module #2**

## Stages

- 1. Developing Assessment Plans
- 2. Developing Implementation Strategies
- 3. Collecting Data
- 4. Implementing Change as the result of assessment

## Understanding Assessment



Effective assessments
 use multiple
 measures and data
 sources

## Understanding Assessment

> Measure what you value then value what you measure

## Language of Assessment

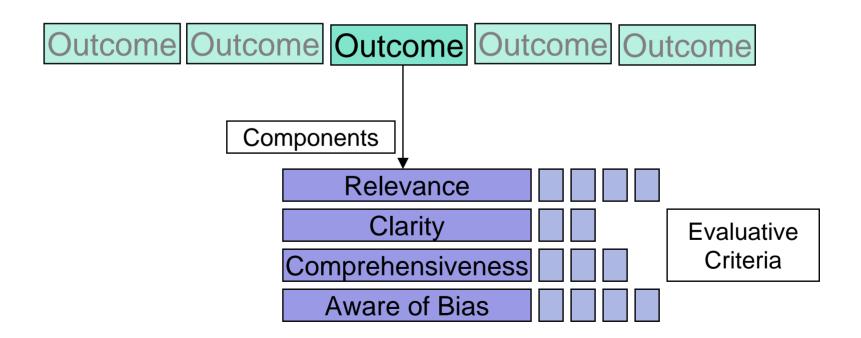
- A. Specific accomplishments to be achieved OUTCOMES
- B. The key elements related to the accomplishment COMPONENTS
- C. Data indicating degree of achievement EVALUATIVE CRITERIA
- D. The objects of analysis: OBJECTS

   (e.g., assignment, performances, speeches, etc.)

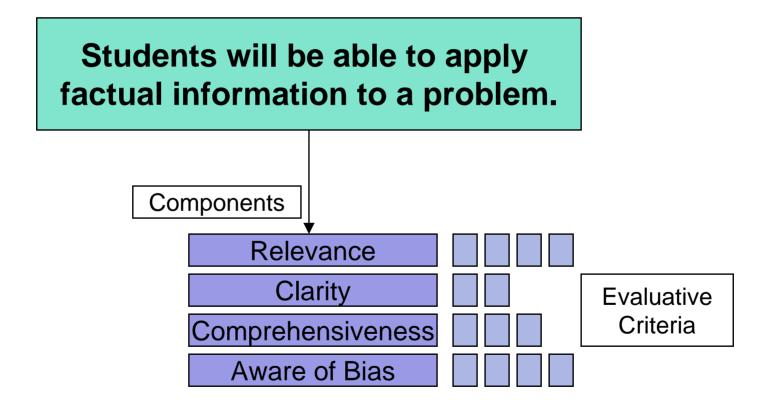
   Hatfield, 2004

## Components

#### **Degree Program**



## Example



#### **Degree Program**

Write
(Written
Communication)

Relate (Interpersonal

Speak (Verbal Communication) Listen
(Listening Skills)

Participate
(Engaged & active
Participation)

Component

Component

Communication)

Component

## **Examples of Components**

- Organization, Structure
- Level of understanding
- Complexity of ideas
- Support for ideas
- Coherence of presentation
- Knowledge of material
- Awareness of audience
- Mechanics: Writing, Language, Style
- Problem Identification

Please refer to handout for more examples

### Hands-on Exercise #1

- Select one of your degree program student learning outcomes and <u>identify its key components</u>.
  - Utilize the list of example "components" (in your handout).

• Feel free to work on a second learning outcome, if time permits.

#### **Degree Program**

Student Learning Outcomes of the Degree Program

#### Write

(Written Communication)

#### Relate

(Interpersonal Communication)

#### Speech

(Verbal Communication)

#### Listen

(Listening Skills)

#### **Participate**

(Engaged & active Participation)

Component

<u>Select</u> the learning outcomes you plan to address, *then* identify the key components for those outcomes. You do not need to identify all components at the same time.

### **Evaluative Criteria**

 Once the components of the student learning outcomes have been identified, the next step is to identify the evaluative criteria.

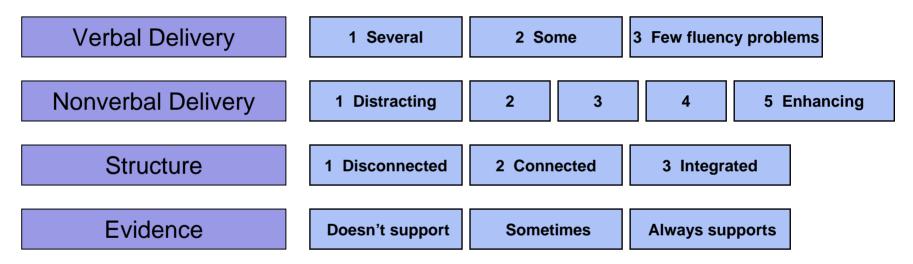
## **Evaluative Criteria**

- Are the scale items or descriptions for assessing each of the components.
- Two to Five-point scales for each component are typical. Each department will determine the appropriate performance range for their programs.

# **Example Layout**

Speak in public situations	
Verbal Delivery	
Nonverbal Delivery	
Structure	
Evidence	

#### Speak in public situations



Evaluative criteria may be numerical, descriptive, or both.

# Example Scales for Evaluative Criteria

- Missing Included
- Inappropriate Appropriate
- Incomplete Complete
- Incorrect Partially Correct Correct
- Vague Emergent Clear
- Marginal Acceptable Exemplary
- Distracting Neutral Enhancing
- Usual Unexpected Imaginative
- Ordinary Interesting Challenging

Please refer to handout for more examples

# Example Scales for Evaluative Criteria

- Simple More fully developed Complex
- Reports Interprets Analyzes
- Basic Expected Advanced
- Few Some Several Many
- Isolated Related Connected Integrated
- Less than satisfactory satisfactory more than satisfactory outstanding
- Never Infrequently Usually Always

#### Hands-on Exercise #2

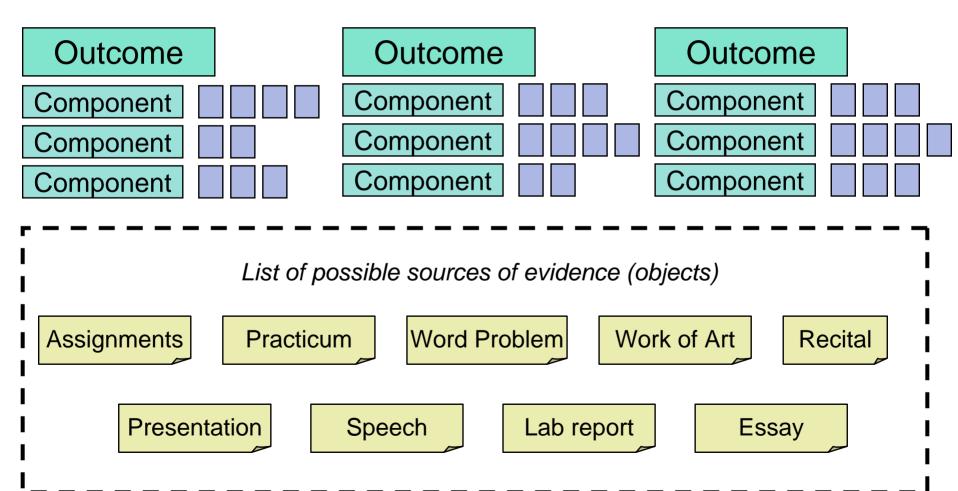
#### **Evaluative Criteria**

 Once the components of the student learning outcome(s) have been identified, then <u>identify at least two evaluative criteria</u>.

• Characteristics or criteria of the effective, accurate, successful, or levels that demonstrated what was learned.

- After identifying key components and evaluative criteria, the next step is to identify the learning objects.
  - Learning objects are the assignments, activities, and performances that promote achievement of each learning outcome.

#### **Degree Program**



- There are multiple objects (e.g., assignments, competitions, licensing exams) that can demonstrate student learning.
- Utilize the forms of evidence that already exist in your programs (curriculum) or modify what you are currently doing in your curriculum.

Please refer to handout for examples.

Abstract, advertisement, annotated bibliography, biography, briefing, brochure, budget, care plan, case analysis, chart, cognitive map, court brief, debate, definition, description, diagram, dialogue, diary, essay, executive summary, flow chart, group discussion, instruction manual, inventory, lab notes, letter to the editor, matching test, mathematical problem, memo, micro theme, multiple choice test, narrative, news story, notes, oral report, outline, performance review, plan, precis, presentation, process analysis, proposal, regulation, research proposal, review of literature, taxonomy, technical report, term paper, thesis, word problem, work of art. (Walvoord / Anderson 1998).

Memo

**Journal** 

Literature Review

Letter

Writing (student learning outcome)

Poster

**Pamphlet** 

\*Mechanics
\*Style
\*Voice
\*Structure

Essay

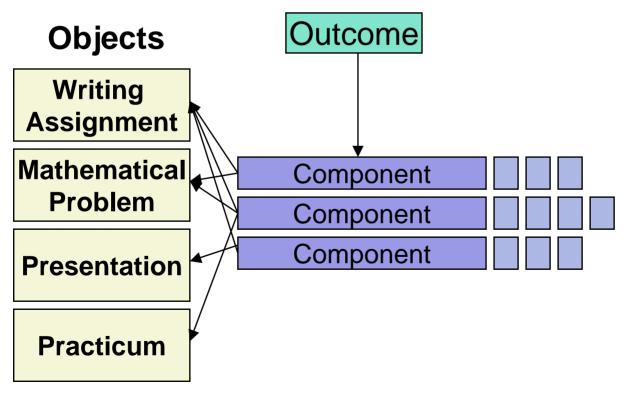
Post Analysis

Application Paper

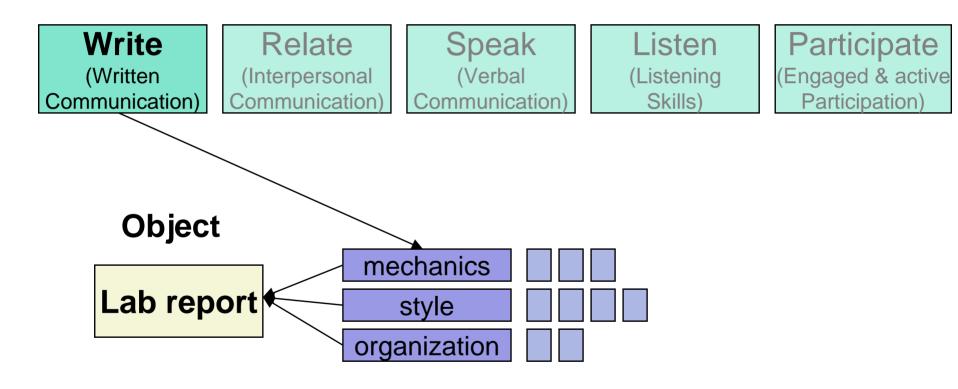
Critique

Hatfield, 2004

#### **Degree Program**



Adapted from Hatfield, 2004



Psychology (at another institution)

Students will be able to demonstrate their knowledge of the different areas in psychology.

Components

Historical roots

Research methods

The nervous system

Learning perspective

The different areas in psychology.

Evaluative Criteria

#### **Degree Program**

Students will be able to demonstrate their knowledge of the different areas in psychology. **Evaluative Criteria** Components Novice Knowledgeable Historical roots Intermediate Research methods Basics Intermediate Advanced Novice Intermediate Advanced The nervous system Knowledgeable Intermediate Learning perspective Novice

Students will be able to demonstrate their knowledge of the different areas in psychology. **Evaluative** Components Criteria **Essay questions** on exam(s) Historical roots K Term paper Goal: Using multiple assignments to assess students' knowledge of historical roots of Short answer psychology. This approach can be used for multiple Question(s) assignments and/or across multiple instructors. on quiz

#### Take-home Exercise #1

#### Learning Objects

 Once the evaluative criteria of the components have been identified, then identify at least two learning objects.

## Examples of Learning Objects

Write

(Written Communication)

Relate (Interpersonal

Communication

Speak (Verbal Communication) Listen
(Listening Skills)

Participate
(Engaged & active Participation)

Lab report

**Essay** 

**Speech** 

Group Presentation

**Debate** 

Group Presentation

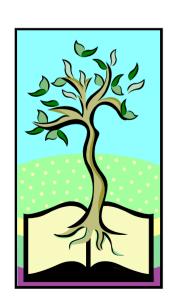
Debate

**Practicum** 

• It is possible to use course or instructor-specific Objects to assess an outcome, but the components of the Object being assessed must remain constant.

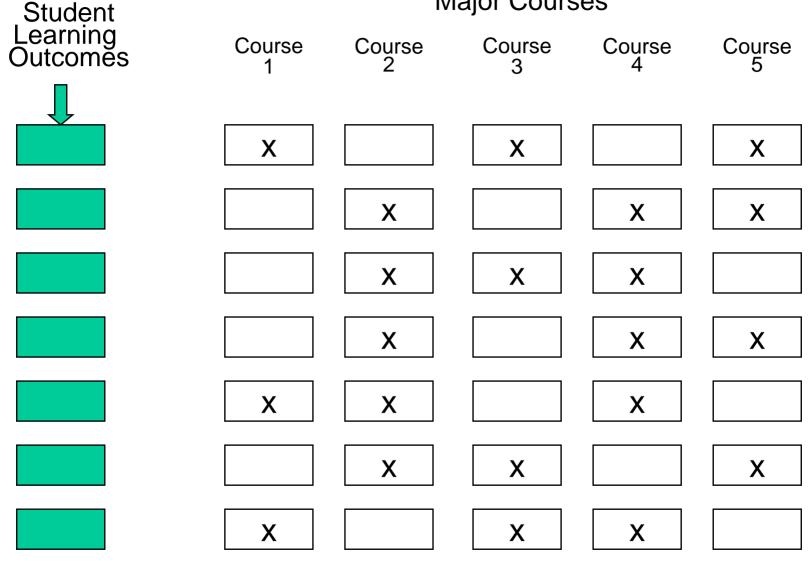
• NOTE: Data from multiple courses and instructors will need to be aggregated, interpreted, reported, and utilized in decision making. Thus, it is recommended that a set of components be assessed across multiple courses, assignments, and/ or instructors.

# Identify the Assessment Points in the Curriculum



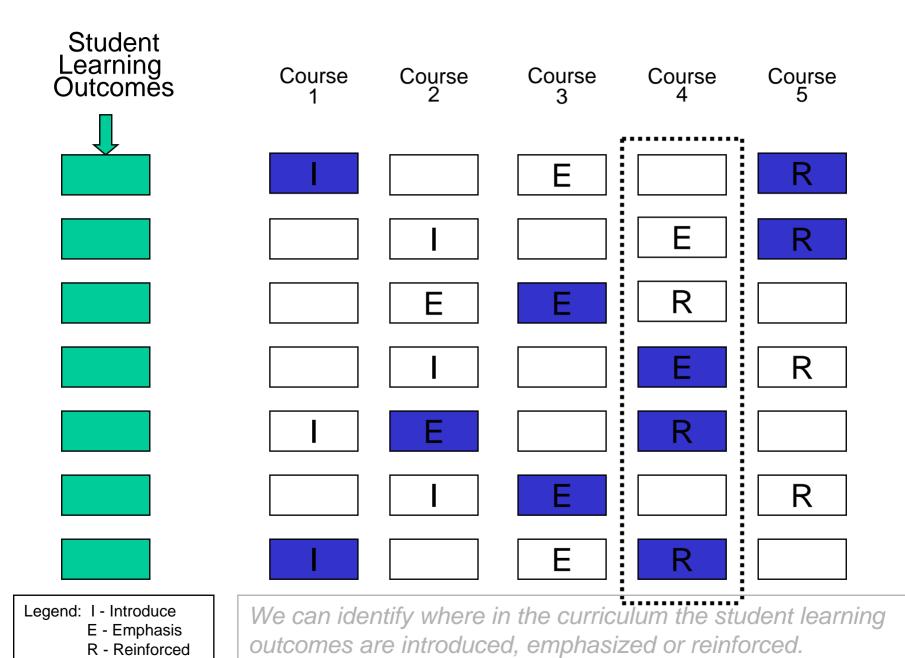
• Where do you want to target your assessment efforts?

#### **Major Courses**



Legend: x = outcomeaddressed in the course

We can identify where in the curriculum the student learning outcomes are developed.



Adapted from Hatfield, 2004

R - Reinforced

### Take-home Exercise #2

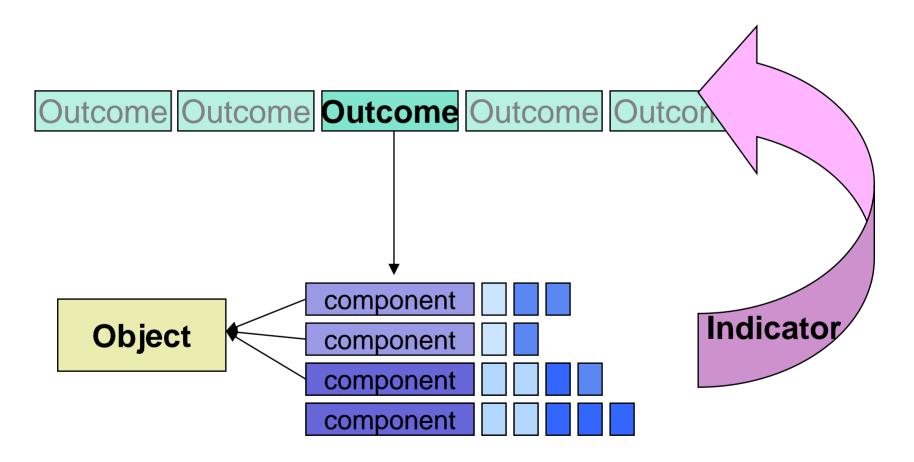
#### **Identifying Assessment Points**

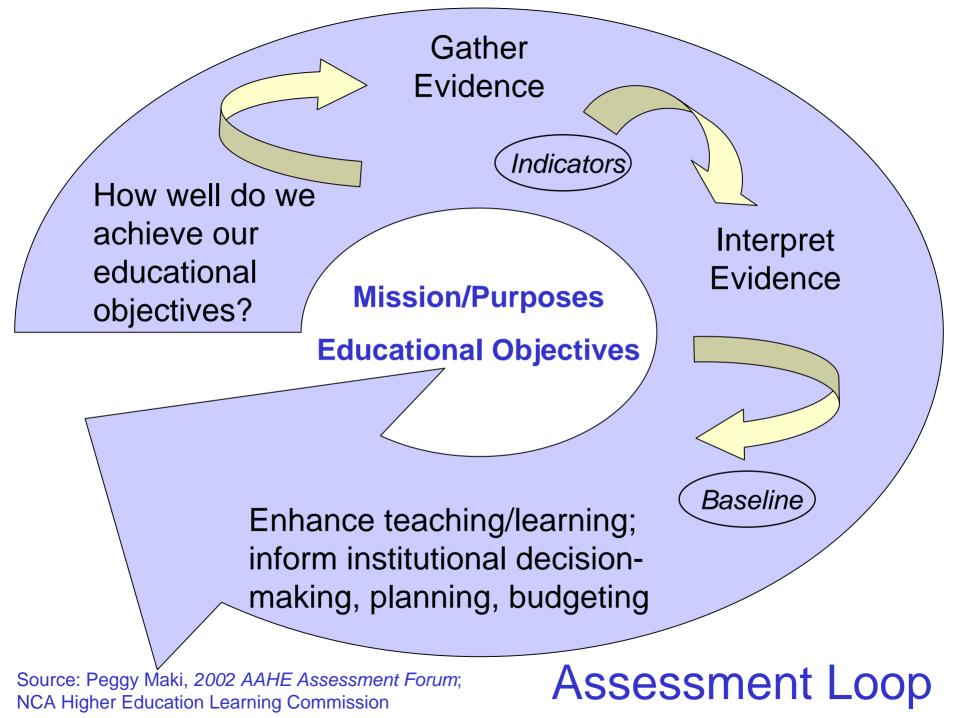
- Refer to at least two student learning outcomes in your degree program.
- Identify where in the curriculum these outcomes are developed.
- Recommend where in the curriculum these outcomes can be assessed.

### Developing an Assessment Plan

 Identify Assessment Measures (part of Workshop 3)

#### Assessment Measures





# Questions?

