



# NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

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**Department of Mechanical & Chemical Engineering**  
Student Learning Outcomes Workshop  
Faculty Lounge, McNair Hall  
September 11, 2008  
11:00 a.m. to 1:00 p.m.

## **Work Sheet** **Student Learning Outcomes<sup>1</sup>**

### **Building Measurable Learning Outcomes**

*What will students in your department be able to do when they graduate as a result of instruction?*

*What broad-level cognitive skills (knowledge, comprehension, application, analysis, synthesis, and evaluation) do you expect students to have demonstrated by the time they graduate?*

### **Assessing Student Learning Outcomes**

*What multiple means of assessment will you use to determine whether students have acquired the knowledge expected?*

*What is the expected level of performance for students in general when they graduate from the department?*

### **Example of Student Learning Outcome**

Students will demonstrate proficiency in *[knowledge of]* **chemical processes such as heat transfer, mass transfer and thermodynamics** *[assessment]* **by designing efficient models of control systems.**

### **Exercise: Rewrite the following student learning outcomes**

1. An ability to apply knowledge of mathematics, science and engineering
2. An ability to identify, formulate and solve engineering problems
3. Enhance their professional credentials through life long learning [listed as a student outcome, but is a program outcome]

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<sup>1</sup> See Alabama A&M State University PowerPoint, pp. 11-21.