

Bluegrass Community and Technical College
2010-2011 Technical Programs - Assessing Student Learning Outcomes: A Snapshot

Architecture Technology

2010-11 Student Learning Outcomes

Activity	Date accomplished	Brief Description
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	9/7/2010	Prepare commercial construction drawing that meets industry codes, meeting all deadlines.
2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.	9/7/2010	Checklist, presentation, official evaluation against safety codes.
3. Assessment - Perform assessment.	December	80% will receive a 2.0 or higher from the building inspectors presentation evaluation and checklist.
4. Review of Results - Gather and summarize data collected. Analyze and document results.	December	100% of the students achieved a 2.0 or higher.
5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.	January	The way these results will be used will be to encourage and develop and expand project checklists for students that are thorough and define larger projects into specific tasks and requirements. The expanded check list will include additional tasks and requirements. Due to course scheduling, the 2011-2012 assessment will be performed in spring 2012.
Activity	Date accomplished	Brief Description
1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.	9/7/2010	Students will be able to build a virtual 3D model..
2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.	9/7/2010	In ACH 150 - Evaluate the project utilizing the software to build the model, pulling it apart to identify the correct level of detail and being made correctly (infrastructure or detail of the model). Seventy-five percent of the students will score an A or B on this component of the project.
3. Assessment - Perform assessment.	December	Seventy-five percent of the students will score a 3.0 or higher.
4. Review of Results - Gather and summarize data collected. Analyze and document results.	December	67% scored a 3.0 or higher

<p>5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.</p>	<p>January</p>	<p>This was a small class with only six students. We will reassess with next class. The following improvements will be incorporated to improve student success:</p> <ol style="list-style-type: none"> 1. Provided a critical path schedule identifying all of the project drawings required for the final project with a timeline for each. 2. Added a small 1-story 3d model project prior to the larger final project, to teach specifics for developing construction sections and structural plans (foundation, floor framing and roof framing). <p>Those two changes will be incorporated into the 2011-2012 classes. Also I have identified a larger problem with some students not being fully prepared for the course due to the basic cadd class ACH 195, being a co-requisite instead of a pre-requisite. We (the Arch. program) have begun discussion to change ACH 150 to require that ACH 195 be a pre-req. It used to not be a big deal, but with our incorporating more advanced Building Information Modeling throughout the program, I think this will be the biggest improvement we can make to help the students.</p>
<p>Activity</p>	<p>Date accomplished</p>	<p>Brief Description</p>
<p>1. Identification of Student Learning Outcome - Identify the outcome that you plan to measure.</p>	<p>9/7/2010</p>	<p>Students will be able to identify key sustainable features, design and construction and understand how to integrate them into their own design.</p>
<p>2. Planning of Assessment - Determine appropriate assessment methodology and criteria for success - benchmarks.</p>	<p>9/7/2010</p>	<p>In the Mechan. Elec Class - Four components of their project will be evaluated:</p> <ol style="list-style-type: none"> 1. Substance - The substance of the sustainability of the project. 2. Graphic design of the presentation of the project. 3. Oral presentation 4. Organization
<p>3. Assessment - Perform assessment.</p>	<p>April/May</p>	<p>Out of 9 total students and on a 4 point scale, the class averages in each category on the sustainability project were:</p> <ol style="list-style-type: none"> 1. Substance 3.55 2. Graphics 2.89 3. Oral presentation 3.44 4. Organization 3.11 <p>Individually the students average for all 4 categories: 2.75, 3.125, 3.5, 3.125, 2.5, 3.25, 3.5, 3.75, 3.75 with only 2 falling below 3.0, so student success based on a goal of 3.0 would be 7/9 or 77%. I think that range between 75-80% is probably a good goal.</p>

4. Review of Results - Gather and summarize data collected. Analyze and document results.	April/May	Looking at the relative low scores across the class in the Graphics category, the next course will place more emphasis and practice with presentation graphics techniques and software. Also will show prior examples of successful and unsuccessful projects to establish a clearer level of quality and expectation.
5. Use of Results for Improvement - "Close the Loop"/use the results to make improvements.	May	With more emphasis and practice with presentation graphics techniques, software, and successful and unsuccessful projects, this outcome will be reassessed in 2011-2012. Due to course scheduling, the 2011-2012 assessment will be performed in spring 2012.