

Program Learning Outcomes Assessment Summary Report

Date: March 28th, 2013

Program Name: Engineering Science

Coordinator/ Faculty Member Completing Report: Paul Chanley

Objective(s) Assessed	TO ASSIST STUDENTS IN THE DEVELOPMENT OF THE ABILITY TO IDENTIFY, FORMULATE AND SOLVE TECHNICAL PROBLEMS
Outcome(s) Assessed	<p><i>1. Analyze problems, that is, isolate and describe the important components of a problem: what is given (design specification, performance requirements, testing standards, etc.); what is known from previous experience relevant to the problem; and what the unknowns are.</i></p> <p><i>2. Represent the problem in a visual form such as a schematic, flow chart, diagram or data table. This visualization will represent the components of the problem in a way that leads to the construction of a solution.</i></p> <p><i>3. Demonstrate strong fundamentals in the ability to formulate and solve problems by applying principles of mathematics, science and engineering.</i></p>
Date(s) of Assessment	March 14th, 2013
Method(s) Used	Visual observation during lab and review of lab reports.
Findings	<p>For Outcome #1; the class was split evenly with one third exceptional, one third adequate and one third fair.</p> <p>For Outcome #2; the majority of the class was adequate and above. Only one student was determined to be fair.</p> <p>For Outcome #3; the majority of the class was adequate and above, with three students indicating fair in this outcome.</p>
Next Steps/ Action Plans	Students will be continuously observed in the lab environment throughout the semester. The instructor will provide positive feedback to help the students achieve solid lab skills prior to the end of the course. In addition, students will have an opportunity to perform Inquiry Based Learning lab experiment. This type of learning module allows the student to be more creative with their thoughts and be more comfortable in the lab.