Course Outcomes Guide

Directions: Please complete this form to document your progress toward improving student learning. For each item, indicate your progress and your anticipated next steps. Thank you!

Course/Program Title: EGR 108 Statics **Date: 10/29/2009**

Course/Program Team: Tim McCollum

Expected Learning Outcomes

1. Perform a thorough force analysis of rigid bodies and simple structures in equilibrium condition
2. Analyze trusses, beams, frames and machines
3. Determine the centers of gravity and moments of inertia of simple geometric shapes and understand the physical applications of these properties
4. Understand the use and be able to perform calculations related to friction forces in various engineering applications
5. Understand the concept of virtual work and utilize it correctly

Assessment (How do or will students demonstrate achievement of each outcome? Please attach a copy of your assessment electronically.)

These outcomes are will be assessed by midterm exam and final exam questions. A common question for each outcome will be given to each class. The specific assessment questions are under development and not yet completed.

Validation (What methods have you used or will you use to validate your assessment?)

Results (What do your assessment data show? If you have not yet assessed student achievement of your learning outcomes, when is assessment planned?)

The assessment has not yet been implemented. The first use is planned for the spring semester of 2010.

Follow-up (How have you used or how will you use the data to improve student learning?)

The scores on the questions for each individual outcome will be compared to identify any outcome areas where students may be, on average, scoring lower than expected. This will be used to identify course topics areas where additional instruction is needed.

Budget Justification (What resources are necessary to improve student learning?)

No additional resources are needed