

Assessment, Improvement, Measurement (AIM) Report: 11/19/2013**Plan Year:** 2012-2013**Unit:** Civil Engineering**Coordinator(s):** Karman Wheeler, William Franklin, Jeffery Durham**Reviewer:** William Franklin

Objective or Outcome	Measure(s)				
	Measure Text	Achievement Target	Results	Use of Findings/Next Steps	Assess Month
CET/SLO 1 - Students will be able to interpret land surveying data.	Collection of data in the field evaluated for creation of drawing within industry accepted error. The error is variable depending on the class of survey.	70% of the graduates will be able to create a drawing meeting industry specs as it they relate to acceptable error based on the industry's standardized classification survey.	CET 150 (10/10); CET 295 (17/19) were successful in creating a drawing that met industry specs (93.1%).	While students were successful, faculty feel the need to incorporate additional time and software to improve the breadth of their employment opportunities. The CET curriculum is currently being revised. This outcome will be rolled over in 2013-2014 with a new outcome for assessment being identified when the new curriculum is implemented.	December
CET/SLO 2 - Students will demonstrate knowledge of geography and topography.	Successfully completing 60% of the related questions on the final evaluation related to geography and topography.	All students will successfully complete 60% of the geography and topography related questions on their final evaluation.	CET 150 (10/10); CET 295 (19/19) = 100% of the students demonstrated knowledge of geography and topography.	In addition to raising the level of achievement to 70%, faculty will incorporate additional industry standard technologies in the classroom training and assessments. The CET curriculum is currently being revised. This outcome will be rolled over in 2013-2014 with a new outcome for assessment being identified when the new curriculum is implemented.	December
CET/SLO 3 - Students will demonstrate knowledge of drainage areas.	Practical project exercise (final project in 2nd year class).	All students will demonstrate 75% accuracy on their final project exercise.	100% of the students completed the project that demonstrates satisfactory knowledge of drainage areas.	Only five students were assessed in the 12-13 cycle. Faculty will work to increase enrollment. The Civil Engineering Curriculum is being revised to focus on the applied grading aspects	April

				to facilitate drainage.	
CAD/SLO 1 - (Program Learning Outcome 7) Students will be able to perform geometric construction.	Five point rubric on module or group of assignments. The students will be provided written instructions and will be evaluated on the ability to follow the instructions and will perform geometric constructions on a group of assignments (modules).	Students will be able to score at least a 3 on their module or group of assignments.	31 out of 36 scored at least a 3 on the five point rubric (86.1%)	This semester we attempted to provide a flexible delivery through the online delivery of CAD 100 and CAD 102. The unsuccessful students were the result of the totally online presentation. We will seek to improve the online delivery method and create a more user friendly presentation.	December
CAD/SLO 2 - (Program Learning Outcome 23) Students will demonstrate knowledge of geometry.	Related questions on their final evaluation. Students will be able to define and comprehend geometry based on this component within their final evaluation (exam).	Students will successfully complete 60% (3 out of 5) of the questions related to this component on their final evaluation.	31 out of 36 (86.1%) students were able to define and comprehend geometry based on this component within the final exam	This semester we attempted to provide a flexible delivery through the online delivery of CAD 100 and CAD 102. The unsuccessful students were the result of the totally online presentation. We will seek to improve the online delivery method and create a more user friendly presentation.	December
CAD/SLO 3 (Program Learning Outcome 28) - Students will be able to create working drawings.	Drawing completion and evaluation of each drawing within the set of drawings. Students will be able to complete a set of plans that will be able to be used in the field (for construction projects).	75% accuracy of completing the drawings with the evaluation to include evaluation of each drawing within the set of drawings.	26 out of 30 (86.7%) were able to complete a set of working drawings capable of being used in the field.	Many students are misadvised before entering the program. The misconception is that if you like to work on computer games and design, you will be successful in this field. Students are unaware of the content, skills and math requirements required for success in this program. Strategies will be implemented to improve awareness of the requirements by the advisors at the area technology centers and the College advisors (through Advisory Notes). Additionally, a better orientation on the first day of class as to the expectations will be implemented. Additionally, the assessment tool and its	April

				use in 2013-2014 will need to be modified once CAD 100 is approved for digital literacy. It will be necessary to select only the cohort taking CAD 100 that are actually in the program and not using it for the digital literacy requirement.	
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