

Bachelor of Science in Computer Engineering (BSCpE) College of Engineering and Mines (CEM)

Table 4.1 Outcomes Assessment Implementation Summary

	Academic Year		
	2007-08	2008-09	2009-10
Assessment information collected	1) Senior design 2) FCAR (Faculty Course Assessment Report) 3) Exit survey 4) FE Exam 5) ECE Advisory and Development Council Meeting	1) Senior design 2) FCAR (Faculty Course Assessment Report) 3) Exit survey 4) FE Exam 5) ECE Advisory and Development Council Meeting	1) Senior design 2) FCAR (Faculty Course Assessment Report) 3) Exit survey 4) FE Exam 5) ECE Advisory and Development Council Meeting

<p>Conclusions drawn from the information collected above and how are faculty collectively involved in drawing conclusions</p>	<p>Department faculty discuss the data collected and draw conclusions during an annual Outcomes Assessment meeting.</p> <p>2) FCAR (Faculty Course Assessment Reports) indicated that the lowest scoring ABET outcomes were c and h, but these were above our tripwire.</p> <p>3) Sr. Exit survey showed the lowest scoring ABET outcome was j, but these were above our tripwire.</p> <p>4) 1/1 passed the FE Exam</p> <p>Outcome J is contemporary issues. We have decided to explain to the students what we mean by contemporary issues, and that whenever we bring up a contemporary issue (all senior level courses should contain a number of these) we will specifically mention that this is a contemporary issue in the content area of this class.</p>	<p>Department faculty discuss the data collected and draw conclusions during an annual Outcomes Assessment meeting.</p> <p>2) FCAR (Faculty Course Assessment Reports) indicated that the lowest scoring ABET outcomes were a, c and e, but these were above our tripwire.</p> <p>3) Sr. Exit survey showed the lowest scoring ABET outcomes were d and j, but these were above our tripwire.</p> <p>4) No data on FE Exam (Computer is not allowed to take the exam because the program is not yet ABET accredited. State Board of Engineers is working on changing the regulations to let computer engineering students take exam before ABET accreditation of program.)</p> <p>5) There was unanimous agreement among the ADC members that UAF is providing education that meets the expectations of the employers. UAF ECE graduates receive a well rounded academic curriculum which requires a high level of lab work. This hands-on experience increases the value that UAF graduates bring to their employers.</p>	<p>ECE faculty had several outcomes assessment meetings to discuss the results of FCARs and other outcome assessment tools. The conclusions can be listed as follows:</p> <p>1)Senior design: 1/1, and above tripwire in all categories.</p> <p>2) FCAR: The cumulative results of all course FCARs demonstrate a drop to 1.88 in outcome (a). This is below our tripwire. Hence, measures must be taken to improve students math skills prior to senior courses.</p> <p>3) Senior Exit Survey: 1/1 and above tripwire in all categories.</p> <p>4) No CpE results available from State as no Computer section in FE exam.</p> <p>5) ADC was supportive of program and the outcome assessment methodologies.</p>
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<p>Curricular changes resulting from conclusions drawn above</p>	<p>Addition of contemporary issues to senior level courses. All senior level courses will contain some mention of contemporary issues in the content area of the course.</p>	<p>Based on the assessment of their individual courses (FCARs) all faculty have proposed changes and improvements in their course offerings, design of homework and experiments so as to better meet the program objectives. No new courses were added or old courses removed from the curriculum. It was also decided that an overall improvement in the assessment process itself is needed.</p>	<p>The probability and random signals content of EE 354 was found to be essential for the CpE education at UAF. This need was also supported through some student comments in the exit survey. Measures may be necessary to strengthen students math skills in prerequisite courses in preparation of more advanced courses. Faculty have also discussed the expected changes in FCAR procedures starting next year, and courses have been determined to assess certain sub-categories of ECE PEOs, instead of assessing (a-k). Overall, the improved results indicate that the faculty have been doing a good job in closing the loops in individual courses, as well as in the program.</p>
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