# Course or Program Assessment Summary http://academic.cuesta.edu/sloa/docs/Course and Program Assessment Summary F 2014.docx

This form can be used to record SLO assessment plans and results for courses or programs. It is recommended that this document be stored on a group drive, or in MyCuesta. **Division:** Engineering & Tech Program: cnet *Date:* 9/05/14 v. 2 2014 Courses in program, or course: \_\_\_\_\_CNET218\_\_\_\_\_ Faculty involved with the assessment and analysis: CHRIS AKELIAN Course to program outcome mapping document\*\* is completed Yes STUDENT LEARNING OUTCOMES **Student Learning Outcome** Statements Utilize wireless theory for proper device selection, and test methodologies SLO1 □ Program Investigate how wireless devices fit within network standards SLO<sub>2</sub> □ Course Configure and install wireless access points to industry standards SLO3 Perform site surveys with industry standard tools and methods SLO4 Implement wireless security based on industry standard models SLO<sub>5</sub> Complete CWNA wireless certification objectives and tasks SLO<sub>6</sub> Assessment Methods Plan 1. Student Survey of SLOs Test & Lab data mapped to SLOs (identify assessment 3. Advisory committee feedback instruments, scoring rubrics, SLO mapping diagrams) Review New Student Survey Results for Spring 2012 Assessment Administration 2. Review SLOs and data through 2014 Plan (date(s), sample size or 3. Review test and lab results and relate to SLOs selection of course sections. 4. Industry feedback scoring procedures, etc.) **Student Survey Data Results:** Assessment Results Summary (summarize Data) **Weighted Averages of SLO Data** SLO6 Year Responses SLO1 SLO<sub>2</sub> SLO3 SLO4 SLO5 1.44 10 1.36 1.36 1.32 1.28 1.16 2010 0.12 0.12 0.15 0.12 0.16 0.12 2010 14 2.12 2.08 2.20 2.08 2.12 2.04 2013 25 3.68 3.59 3.72 3.52 3.52 3.32 Total Total% 92.06 89.65 92.95 87.94 88.06 82.96

### **Test Results**

Test to SLO Map				
SLO1 Q1+Q2+Q3				
SLO2	Q2			
SLO3	Q5+LAB			
SLO4	Q6+LAB			
SLO5	Q7+Q8			
SLO6	FINAL+LAB			

CNET218 TEST SCORES MAPPED TO SLOS							
	responses	SLO1	SLO2	SLO3	SLO4	SLO5	SLO6
F2010	12	39.81	41.68	40.51	39.84	40.00	40.67
F2013	14	32.17	26.33	42.60	42.50	43.00	47.44
Totals	26	71.98	68.01	83.12	82.34	83.00	88.11

## Weighted Average of all SLOs

Total Average of SLOs	SLO1	SLO2	SLO3	SLO4	SLO5	SLO6
Total% based on weighted averages	83.81	81.69	87.73	85.84	86.10	85.73
total resp (survey + test)	77					•

## Discussion of Assessment Procedure and Results, and Effectiveness of Previous Improvement Plans

SLO Assessment for survey data

All student survey are measured on a scale of 4 then were converted to a 100 percent scale. SLO's Assessment of both sets of data:

#### 2010

2010						
SLO1		SLO2	SLO3	SLO4	SLO5	SLO6
	87.59	87.47	86.69	85.83	85.39	83.45
2013						
	83.81	81.69	87.73	85.84	86.10	85.73

The SLO weighted average data compared to last data set showed a decrease in SLO 1 & 2. The students may have thought that they needed newer equipment to solve real world problems or that they didn't fully comprehend the lab problems they did do. Also the book we used is tied to the CWNA certification, but doesn't necessarily address the test questions that the students would see on the industry certification test. All other slo data sets showed an increase.

The SLO student survey data and the test results mapped-to-SLOs were relatively consistent. They indicated that the students basically achieved what they thought they learned. The results showed above 80% for nearly all SLOs in both sets of data. This result shows that the students are achieving the outcomes with good success.

		One area that differed from the sets of data is that the students felt based on SLO6 of the new survey they didn't fully comprehend Wireless security. Interestingly they did better on the actual testing results for SLO6 so the students may have comprehended more than they thought they did. That said, Wireless security is the most complicated aspect of the course,
6	Recommended Changes & Plans for Implementation of Improvements	Network Security was addressed at the 2014 advisory committee meeting and the advisory panel agrees security should be emphasized in the courses but that creating a new security course should not replace Bus 86 (this was the only course that could be swapped in the new degree pattern).  Newer equipment will be implemented in the spring of 2015 based on CTEA funds in 2014. This should help with modernizing the curriculum to make it relevant to real world applications. Also small wireless PDA devices should be incorporated into the curriculum since much of wireless is now using those devices these will need to be purchased with CTEA of foundation funds.
7	Description or evidence of dialog among course or program-level faculty about assessment plan and results	Alan Ross indicates the need for enhanced security instruction and incorporating small wireless PDA devices would be helpful for student success

<sup>\*\*</sup>Course and program level outcomes are required by ACCJC to be aligned. Each program needs to complete a program map to show the alignment. See examples of completed CPAS and program mapping documents are available at <a href="http://academic.cuesta.edu/sloa">http://academic.cuesta.edu/sloa</a>