

Crafton Hills College - Outcomes Assessment Report

Program Learning Outcome 1:

Year Assessed: 2014-2015

Learning Outcomes Statement(s)

Means of Assessment (Measurement Method)

On In-Service Day, August 17, 2015, the Institutional Effectiveness, Accreditation, and Outcomes Committee (IEAOC) with the Professional Development Committee (PDC) organized a campus wide meeting to discuss the results collected from the SLO Cloud tool by program. Approximately 20 faculty from multiple disciplines attended the session and reviewed the process for examining the results from the PLO assessments. Because of a technical glitch, rather than reviewing the results and generating proposed actions for the PLOs, faculty in each discipline that attended completed and emailed the results to the Office of Institutional Effectiveness, Research and Planning.

Summary of Evidence

The OIERP reviewed the process for accessing and discussing the PLO results and the proposed actions. The CIS Department reviewed the results of the PLO assessments, discussed the meaning of the results and developed the proposed actions.

Program SLOs

#	Program SLO Statement	# of Students Meeting SLO Rubric				# 3 or higher	% 3 or higher
		1	2	3	4		
1	Apply analytical and logical thinking to design and test solutions to problems.	8	15	24	140	164	87.70%
2	Use appropriate information and technology to analyze, evaluate, and solve technical problems.	3	11	47	115	162	92.05%
3	Discuss the impact of information technology on the society and workplace.						
4	N/A						

[12 Reflection\(s\)](#)

[12 Section\(s\) Reporting](#)

[32 Section\(s\) Not Reporting](#)

Proposed Actions Developed during the Course Assessments

- Introduce students to more design training to encourage creativity and aesthetically well thought out layouts.
(CIS-163-30 for 2014FA)
- Student performance was strong. Students may need more challenging projects to further develop their skills.
(CIS-180-40 for 2014FA)
- Students demonstrated a solid understanding of the fundamentals. May need to make assessment project more challenging to further develop their skills.
(CIS-182-40 for 2014FA)
- SLOs 3 & 4 - Results indicate the students have mastered the powers of two however they are still have trouble with the mathematics of conversion. Additional instruction related to this process will be included in subsequent semesters. SLOs 5 & 6 - Students have a solid understanding of this topic. No reteaching is needed. SLOs 7 & 8 - Students understand and have mastered the correct order of the 7 layers of the OSI model. The definitions for each of the layers is lacking. After reevaluating it has been determined that a working knowledge/basic definition of each of the 7 layers of the OSI is important, however this is a concept that is strengthened over the 4 semester course. Additional emphasis will be placed on clarifying the function and purpose of each layer and specifically of the upper 3 layers.
(CIS-140-05 for 2014FA)
- SLO 1 - The analysis of this assessment indicates additional clarification of the ranges and the related subnet mask is needed. Will revive this concept at the start of the CIS 142 class. SLOs 2-4 - Students have a solid understanding of these core ideas. No changes or reteaching is required.
(CIS-141-05 for 2014FA)
- Students effectively demonstrate required skills and understanding. Due to the high success rate, students may require more challenging criteria for assessment.
(CIS-163-65 for 2015SP)
- Students satisfactorily demonstrated required skills and understanding. Due to the high success rate of the second SLO, students may require more challenging criteria for assessment.
(CIS-173-46 for 2015SP)
- All students assessed have achieved these learning outcomes. No re-teaching is required.
(CIS-142-70 for 2015SP)
- All students in the Semester 4 course were able to complete each of the skills, no re-teaching is required.
(CIS-143-70 for 2015SP)
- Student intern stated that the experience provided her with a better understanding of how to narrow down resolve technical issues. She also Improved her ability to explain concepts in a simpler and effective way to cater to the needs of a particular student. As a way to improve this outcome we will have students identify technical and interpersonal skills they hope to improve at the beginning of the internship and will then ask them to assess their progress on achieving those skills at the conclusion of the semester.
(CIS-190B-95 for 2014FA)
- The targets were met with the two SLO for CIS-104. Two proposed actions are as follows: rewrite the SLO for CIS-104 to more closely reflect current technological trends with developing applications programs in Visual Basic.NET, and to add one or two more SLO statements reflecting these current trends.
(CIS-104-65 for 2015SP)
- Since the 11 students that were tested met the goal. No further action is proposed
(CIS-117-65 for 2015SP)

Use of Results/Proposed Actions (Implications for Program Improvement & Planning)

Program Learning Outcome Discipline and Number: CIS #1

Proposed Actions:

- Introduce the systematic process of problem-solving and incorporate activities that practice such process
- Integrate design training to courses where technical tools are used to produce creative design
- Spend additional time to emphasize the understanding of more challenging technical concepts (e.g. the OSI layers, subnet masks) in order to apply them to solving problems
- Provide adjunct faculty members information and reminder on assessing each course that they teach

Program Learning Outcome Discipline and Number: CSCI #1

Proposed Actions:

- Spend additional time to emphasize the understanding of more challenging mathematics and computer science concepts
- Provide additional examples and hands-on activities to reinforce concepts with which students struggle
- Show real-world examples on how knowledge of computer science and mathematics are applied to design computing systems and to solve problems