ALAMO COLLEGES

PALO ALTO COLLEGE

Program Assessment Report

Program/Award: **Landscape and Horticultural Science Certificate**
Academic Year Assessed: **2012-2013**
Program Lead Faculty: **Kirk Williams**
Department Chair: **Dean Shelman**

Program Learning Outcome #1	Apply the basic principles of plant function and development emphasizing Horticultural applications.
Courses in the degree	HALT 1301
Assessment Method	Plant Structure and Function Lab Practical
Targets for Achievement	70% of assessed students satisfactorily apply the basic principles on the lab practical in HALT 1301
Results	HALT 1301 - Fall 2012 – 14 of 16 students satisfactorily completed the lab practical on plant structure and function = 88% success rate.
Target Met or Not Met	Met
New action plan for improvement of student learning	Capture digital images, process them and use LMS to administer a pre-test.
Evaluation of previous cycle's action plans	Students are successfully completing this lab practical.
Program Learning Outcome #2	Perform industry standard horticultural maintenance practices such as fertilizing, pruning, mulch application, mowing and irrigation of South Central Texas landscapes and turf areas.
Courses in the degree plan that address this	HALT 2318 and HALT 2301
Assessment Method	HALT 2318 – Fertilizer Calculations Lab Final HALT 2301 – Lab Exercise - Natural Target Pruning.
Targets for Achievement	70% of assessed students satisfactorily apply the basic principles in selected exercises
Results	HALT 2318 – Spring 2013 -7 of 12 students successfully completed final exam fertilizer calculations for a successful completion rate of 58% HALT 2301 – Fall 2012 - 15 of 15 students successfully marked Natural Target Pruning Cuts on a limb proposed to be removed from a tree = 100% Success Rate
Target Met or Not Met	Not Met

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New action plan for improvement of student learning	HALT 2318 – Utilize LMS to develop pre-test questions to address the mathematics issues found with students.
Evaluation of previous cycle's action plans	HALT 2318 – Utilize LMS to develop pre-test questions to address the mathematics issues found with students. Not completed due to lack of time. HALT 2301 – Deploy competency scoring guide for pruning and mulching. Completed.
Program Learning Outcome #3	Identify, use and care for a wide variety of plants in the landscape and greenhouse, emphasizing the importance of plant selection, planting practices and proper cultural activities.
Courses in the degree plan that address this	HALT 1303, HALT 1331
Assessment Method	HALT 1303 Written Lab Seed to Finish Project Report HALT 1331 Written Summary Report on Woody Plant Species
Targets for Achievement	70% of assessed students satisfactorily complete written assignments.
Results	HALT 1303 - Spring 2013 - 11 of 12 students satisfactorily completed the written lab Seed to Finish project report = 92% success rate. HALT 1331- Fall 2012 - 12 of 14 students satisfactorily completed the written summary report on a Woody Plant Species = 86% success rate.
Target Met or Not Met	Met
New action plan for improvement of student learning	Place written report documents on LMS to ensure students can find the information when they need it.
Evaluation of previous cycle's action plans	Create rubric to assess each report. Completed. Utilize rubric to assess each report Completed.
Program Learning Outcome #4	Identify and manage common horticultural biotic and abiotic problems.
Courses in the degree plan that address this outcome	HALT 2318 and HALT 2323
Assessment Method	Responses on Test Questions in HALT 2318 and HALT 2323.
Targets for Achievement	70% of assessed students satisfactorily answer selected questions

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Results	HALT 2318 – Spring 2013 – Responses to 5 questions were assessed on the final exam. 2 of 12 students satisfactorily answered the questions = 17% success rate HALT 2323 – Spring 2013 –Responses to 5 questions were assessed on the final exam. 10 of 12 students satisfactorily answered these questions = 83% Success Rate.
Target Met or Not Met	Not Met
New action plan for improvement of student learning	Continue to assess the use the LMS to incorporate a pre-test to reinforce the nutritional deficiency identification.
Evaluation of previous cycle's action plans	Use the LMS to incorporate a pre-test to reinforce the subject matter. Was completed however the material will continue to be reinforced in a variety of ways.