Basic Program Information

Department Name:

Environmental Horticulture & Design

Division Name:

Biology & Health Sciences

Program Mission(s):

The Environmental Horticulture program is focused on students who are pursuing employment or developing an interest in the field of Environmental Horticulture (the "Green Industry"). While enrolled in the Environmental Horticulture & Design program, students learn to combine principles of sensible environmental design, construction, and maintenance practices for application to urban, rural and natural landscapes. Students also learn about the range of business services and manufacturing industries that support the Green Industry. To accomplish this goal, students are expected to adequately demonstrate a skill set necessary for success in the industry.

Please list all Program Review team members who participated in this Program Review:

Name	Department	Position
Daniel Svenson	Environmental Horticulture & Design	Director
David Sauter	Environmental Horticulture & Design	Faculty

Total number of Full Time Faculty:	2
Total number of Part Time Faculty:	6

Please list all existing Classified positions:
Facilities Coordinator (60% Horticulture / 40% Veterinary Science)

List all Programs* covered by this review & check the appropriate column for program type:

Program Name	Certificate of Achievement Program	Associate Degree Program	Pathway Program
Environmental Horticulture & Design	A.S.	64-64	
Environmental Horticulture & Design	C.A.	64-65	

*If you have a supporting program or pathway in your area for which you will be making resource requests, please analyze it within this program review (i.e. Integrated Reading and Writing, Math My Way, etc.) You will only need to address those data elements that apply.

Section 1: Data and Trend Analysis

a. Program Data:

Data will be posted on http://foothill.edu/staff/irs/programplans/programreviewdata.php for all measures except non-transcriptable completion. You must manually copy data in the boxes below for every degree or certificate of achievement covered by this program review.

Transcriptable Programs	2010-2011	2011-2012	2012-2013	% Change
Associate in Science	*10*	*7*	*13*	*85%*
Certificate of Achievement	*9*	*12*	*9*	*-25%*

Please provide any non-transcriptable completion data you have available. Institutional Research does not track this data; you are responsible for tracking this data.

Non-Transcriptable Program	2010-2011	2011-2012	2012-2013	% Change
(None)				

b. Department Level Data:

	2010-2011	2011-2012	2012-2013	% Change
Enrollment	1114	1294	1059	-18.2%
Productivity (College Goal 2013-14: 535)	56.3	513	451	-12.1%
Success	92	91	90	-1%
Full-time FTEF	2.2 (regular plus overload)	2.3 (regular plus overload)	2.5 (regular plus overload)	8.6%
Part-time FTEF	0.7	0.5	0.6	20

c. Associate Degree Transfer (ADT)

There is a fall 2014 legislated deadline for approval of ADTs (AA-T/AS/T degrees). **If there Is a Transfer Model Curriculum (TMC) available in your program, you are *required* to offer an approved AA-T/AS-T.** Indicate the status of your program's ADT:

Check one	Associate Degree Transfer Status
	State Approved
	Submitted to CCCC
	Submitted to Office of Instruction
	In Progress with Articulation
	Planning Stage with Department
X	**Not Applicable**

If you are required to offer an approved ADT and it has not been state-approved, please comment on the program's progress/anticipated approval date.

N/A

Using the prompts and the data from the tables above, provide a short, concise narrative analysis for each of the following indicators. If additional data is cited (beyond program review data sheet), please indicate your data source(s).

d. Enrollment trends: Over the last three years, is the enrollment in your program holding steady, or is there a noticeable increase or decline? Please comment on the data and analyze the trends.

Overall enrollment trends for the Environmental Horticulture program are reasonably steady. While we did experience a drop of 18% for 2012/2013, the Fall 2014 enrollment has shown an increase of 32%. In general, program enrollment, with some variation, is most likely at its threshold.

It is difficult to determine the reasons for slightly lower enrollments over the past few years. Much of the enrollment decline seems to be in line with the recession. Specifically, the 2012/2013 decline is likely due to the elimination of TBA hours in our HORT 80 internship as well as the elimination of repeatability in our popular HORT 90 series short courses.

Nonetheless, based on the initial numbers for this year, we are hoping for an upswing in the total annual enrollment for 2013/2014. Students entering the program have shared with us that economics in their family are improving, allowing them the flexibility to pursue training in the green industry. This is something that was an often repeated reason for why students needed to leave the program before graduating or were unable to take courses in previous years .

e. Student Demographics: Please comment on the enrollment data, comparing the program-level data with the college-level data. Discuss any noticeable differences in areas such as ethnicity, gender, age and highest degree.

a. Ethnicity: For the HORT program, enrollment for non-white groups is down slightly from last year but success rates continue to climb. Roughly 34% of the HORT students fall into the category of minorities which is about half the percentage of minorities campus-wide.
b. Gender: The percentage of women in the program (60%) remains higher than that of men (40%). This has been fairly typical of the program demographics for the past 18 years. There is about a 6% higher number of women in the HORT program than the Foothill student population overall.
c. Age: Similarly the predominant age category remains highest in the 40+ age group (56%) with 26% in the 25 to 39 group and 18% in the 24 or younger group. Our program appeals to mainly re-entry students with occasional recent high school graduates or middle college students. Overall, the percentage of older students in the HORT program is much higher than the college average (almost four times higher). This is in large part due to the large number of re-entry students wanting to pursue green industry careers.
d. College Degree: Currently 49% of our students have a bachelor's degree or higher and another 6% have an AA or AS degree. Only 44% have never earned a degree but a significant number of them have taken college level classes at some point in their lives. Overall our students are well educated. College-wide, students have far fewer college or university degrees. The rate for HORT students is about three times that of the college. Again, this is in large part due to the fact that most of our students are re-entry students.

f. Productivity: Although the college productivity goal is 535, there are many factors that affect productivity, i.e. seat count/facilities/accreditation restrictions. Please evaluate and discuss the productivity trends in *your program*, relative to the college goal and any additional factors that impact productivity. If your productivity is experiencing a declining trend, please address strategies that your program could adopt to increase productivity.

a. Foothill College had a productivity of 510 for 2012/2013, which fell short of its goal of 535. There was a 7.4% drop from 2011/2012 and 14.5% drop from 2010/2011. We believe this downward trend has affected many programs, in large part due to economic downturns.
b. Overall productivity for the HORT program was down by 12.1% last year and at a productivity of 451 we failed to meet the college productivity goal. However, based on early numbers for this year, we are hoping to turn this around in the next cycle.
c. As we mentioned above, we believe this drop in enrollment is largely due to three factors, the latter two of which were mandated changes:
    1. The economy.
    2. The elimination of repeatability in our HORT 90 short courses.
    3. The elimination of TBA hours in our HORT 80 internship courses.

Section 2: Student Equity and Institutional Standards

As part of an accreditation requirement, the college has established institution-set standards across specific indicators that are annual targets to be met and exceeded. Please comment on how these indicators compare at your program level and at the college level. (For a complete description of the institutional standard, please see the instructional cover sheet)

a. Institutional Standard for Course Completion Rate: 55%

Please comment on your program's course success data, including any differences in completion rates by student demographics as well as efforts to address these differences.

Our numbers continue to be strong when it comes to course completions. They were up slightly for targeted groups in 2012/2013 to 87%, and remain high @ 90% for all students. This rate is 13% higher than the college average. Instructors in the Horticulture program are committed to working with our students to ensure the highest level of learning and success in course work. Student equity is at the forefront of our planning efforts.

b. Institutional Standard for Retention: 50%

Please comment on the course retention data for your program, including any differences in retention rates by student demographics as well as efforts to address these differences, should they exist.

With overall success rates at or above 90%, our student retention also remains high. Factoring in the withdrawl rate of 7%, the success and retention rates are even higher (in the 98% range).

It should be noted that some of the drops and withdrawls are due to people signing up for HORT classes without the intention to actually take them. Sometimes students also enroll in several classes with the intention of dropping some based on their personal and/or work schedules.

c. Institutional Standard for Degree Completion Number: 450

Has the number of students completing degrees in your program held steady or increased/declined in the last three years? Please comment on the data, analyze the trends, including any differences in completion rates by student demographics.

Students completing degrees in 2012/3013 increased by 86%. This increase reflects some fluctuation in the timing of when students choose to graduate. However, the increase is still good news for us and perhaps suggests a trend toward more serious enrollment and degree completion goals. Some further notes:

* Many of our students show non-standard matriculation patterns (i.e. not finishing in the normal 2 year period), due to the fact that they are juggling jobs and family commitments. It is not unusual for a student to take three to four years to complete the program.
* We have been cited in past years, during accreditation, for doing an excellent job of providing training for people with a variety of disabilities. It is encouraging to see many of these graduates successfully entering the work force.

d. Institutional Standard for Certificate Completion Number (Transcriptable): 325
Has the number of students completing certificates in your program held steady, or increased/declines in the last three years? Please comment on the data, analyze the trends, including any differences in completion rates by student demographics.

The number of students receiving Certificates is down a bit from the previous year from 12 to 9. However this may be because we have encouraged students to pursue an A.S. degree when possible. Some students also decide to get a Certificate first, then complete the G.E. portion of their studies and apply for an Associate's degree.

In our opinion, the true measure of success for our students is either finding a job or transferring to a university for further training. Our program does a superior job of connecting students to green industry professionals. This starts the moment a student enters the program. As a result, not all people pursuing a degree or certificate end up completing the program due to the fact that they find gainful employment.

e. Institutional Standard for Transfer to four-year colleges/universities: 775
Based on the transfer data provided, what role does your program play in the overall transfer rates? Please comment on any notable trends or data elements related to your program's role in transfer.

The Environmental Horticulture program at Foothill College is in the unique position of being able to offer both career training as well as transfer opportunities to universities all over the country. While most students who transfer go to state universities, over the years we have also had many attend universities in such locations as Oregon, New York, Kansas, and Arizona.

As a career program, most students' interests do lean toward completing a degree or certificate which will lead to employment in the green industry, rather than transfer to a university program. That said, almost every year there is a small percentage of students which end up transferring to a four year institution. Typically this is not more than two to four individuals. Typical transfers are into programs in Environmental Horticulture or Landscape Architecture.

Section 3: Core Mission and Support

The College's Core Missions are reflected below. Please respond to each mission using the prompts below.
a. Basic Skills: (English, ESLL and Math): For more information about the Core Mission of Basic Skills, see the Basic Skills Workgroup website: http://foothill.edu/president/basicskills.php
If your program is categorized as a basic skills program, please discuss current outcomes or initiatives related to this core mission and analyze student success through the core mission pathway.

N/A

If your program is NOT categorized primarily as a basic skills program, comment about how your program/classes supports Foothill's basic skills mission and students.

Classes in the Environmental Horticulture and Design program here at Foothill College rely on student proficiency in reading, writing and mathematics. When we feel students are deficient in these areas we strongly encourage them to take the appropriate English and Math course(s) which will help them improve their skills in these areas. The same is true for students who have either verbal or written communication skills deficiencies, in which case we encourage them to look at ESL courses.

b. Transfer: For more information about the Core Mission of Transfer, see the Transfer Workgroup website: http://foothill.edu/president/transfer.php
If your program is classified as a transfer program, please discuss current outcomes or initiatives related to this core mission and analyze student success through the core mission pathway.

N/A

If your program is NOT categorized primarily as a transfer program, please comment about how your program/classes support Foothill's transfer mission and students.

Our classes are articulated with the CSU system and 14 of our classes are articulated with the UC system. Especially in the case of UC, the courses which transfer directly replace requirements for similar courses.

c. Workforce: For more information about the Core Mission of Workforce, see the Workforce Workgroup website: http://www.foothill.edu/president/workforce.php. If your program is classified as a workforce program, please discuss current outcomes or initiatives related to this core mission and analyze student success through the core mission pathway.

Our goal in the Environmental Horticulture and Design program is to provide both foundation and advanced training in green industry skills for a wide variety of green industry occupations. We work closely with the industry to ensure that our instructional content is up-to-date and cutting edge. We provide professional expertise in any number of areas which give students the ability to utilize the knowledge they gain in real-world applications.

To achieve our goals we partner with both industry and the community. This provides our program (and students) with visibility, professional contacts, and both paid and unpaid internship opportunities. Some examples include:

a. Professional Community:
   i. Professional Organizations: We are members of several professional organizations (such as the CLCA, APLD, and CANGC). We participate in and/or host numerous events / seminars each year with these organizations.
   ii. On-The-Job Training: Through our HORT 80 Environmental Horticulture Skills courses we encourage (and aid) students in finding employment while they are in school. On-the-job training provides a comprehensive educational experience and guarantees a smooth transition to the workforce upon completion of our program.
b. Service to the Community: The Environmental Horticulture and Design program is actively involved in any number of projects which serve the community. We work with professional organizations, non-profits, and community groups. We constantly receive requests for assistance from members of the community to the extent that many people in the region see us as a version of a local agriculture extension office. Some examples of projects we have worked on or supported include:
   i. Community and School Gardens: (various locations)
   ii. Public Gardens: Examples include Hakone Gardens, Filoli Gardens, San Jose Rose Garden, Gamble Garden House Gardens, Full Circle Farms, and many college related garden & design projects.
   iii. Student Employment Service: Web-based employment service meeting the needs of homeowners, private, and public institutions looking to hire our students or graduates.
   iv. Green Industry Associations & Organizations: Every year we also sponsor and/or host several non-profit groups. For example, last fall we hosted the California Native Plant Society all-day seminar entitled “Lawn Alternatives: Do It Yourself Native Plantscaping”.

If your program is NOT categorized as a workforce program, please comment about how your program/classes support Foothill’s workforce mission and students.

N/A

Section 4: Learning Outcomes Assessment Summary

a. Attach 2012-2013 Course-Level – Four Column Report for CL-SLO Assessment from TracDat, please contact the Office of Instruction to assist you with this step if needed.

b. Attach 2012-2013 Program Level – Four Column Report for PL-SLO Assessment from TracDat, please contact the Office of Instruction to assist you with this step if needed.

Section 5: SLO Assessment and Reflection

Based on your assessment data and reflections, please respond to the following prompts.

a. What curricular, pedagogical or other changes have you made as a result of your CL-SLO assessments?

Depending on the specific course, there are a number of changes that have been made to courses. We have consolidated some of these changes for some courses listed below. Course level modifications are as follows:

1. Expanded mid-term exam will be given earlier to accommodate final projects (HORT 10).
2. Improved plant data sheets and course instructional resources (such as digital slides); (HORT 21 – 26).
3. Add plant tissue testing supplies (HORT 30).
4. Optional use of sketchbooks in Landscape Design: Graphics (HORT 40). This was implemented this year and seems to be working well, allowing students more dedicated time to focus on course projects.
5. Increase project based learning by introducing more plant installation projects (HORT 52C).
6. Find digital slide sets of pests and diseases for use in the course – *not completed due to funding limitations (HORT 52H).*
7. Acquire more of the necessary tools, equipment, and supplies for instructional use – *not completed due to funding limitations (HORT 54A, B, & C).*
8. For our short courses (HORT 90), the consistent pattern is that more educational materials, supplies, and equipment are necessary for adequate instruction. Some things have been purchased but more funding is required to meet these needs. Some of these courses, in particular in the area of sustainability, have sourced additional instructional materials from agencies such as the County Ag Department.

b. How do the objectives and outcomes in your courses relate to the program-level student learning outcomes and to the college mission?

We continue to strive for success in student learning and course completion in our program. Many of the programmatic constraints linked to program success have to do with facilities and equipment. In other words, we need the proper equipment and facilities to ensure student success.

c. How has assessment of program-level student learning outcomes led to certificate/degree program improvements? Have you made any changes to your program based on the findings?

We have made strides in the encouragement of completion of a degree or certificate in Environmental Horticulture. More students are completing their degree. Our efforts have focused on adding value (both perceived and real) to completing the degree or certificate.

d. If your program has other outcomes assessments at the program level, comment on the findings.

The main issues identified in both the program level and course level SLO's is the need for adequate instructional facilities, equipment, and instructional supplies. Most of the other program level targets have been met.

e. What do faculty in your program do to ensure that meaningful dialogue takes place in both shaping and evaluating/assessing your program's student learning outcomes?

The faculty and staff have both scheduled meetings as well as daily dialogue / meetings to discuss, and find solutions to, problems facing our department. Many of the meetings involve making short-range and long-range planning decisions about any number of issues (including outreach and marketing, working with professional organizations, facility upgrades, etc.).

Section 6: Program Goals and Rationale

Program goals address broad issues and concerns that incorporate some sort of measurable action and connect to Foothill's core missions, Educational & Strategic Master Plan (ESMP), the division plan, and SLOs. Goals are not resource requests.

List Previous Program Goals from last academic year: check the appropriate status box & provide explanation in the comment box.

Goal/Outcome (This is NOT a resource request)	Completed? (Y/N)	In Progress? (Y/N)	Comment on Status
1. Purchase or have materials and equipment donated for use in landscape construction, landscape lighting, and other courses needing specialized instruction.	Partial Completion	Yes	This is an ongoing goal of the program. The purpose of this goal is to provide the resources necessary to teach our practicum based courses.
2. Expand and improve the Horticulture facilities, especially in the areas of plant material instruction. Provide for ongoing facility and equipment maintenance.	No	No	We are in the process of adding an inexpensive "Hoop-House" which will protect our succulents from winter damage. Our real need is an expansion of our Lath House facility which currently limits our ability to provide instruction in Nursery Management.
3. Provide slide sets, as needed, for certain classes needing specialized visual aids for instruction.	No	No	Funding was not sufficient to meet this goal.
4. Greater integration of "Landscape Sustainability" into our curriculum.	Yes	Yes	Our instructional focus continues to integrate Landscape Sustainability. Both new and existing courses are making strides to integrate this component.
5. Develop enhanced retention strategies and methodologies for working with at-risk students.	Yes	Yes	This is an ongoing effort. We have stepped up our dialogue with students with the intention of better understanding why students leave the program and how we can help them have a successful college experience.
6. Maintain software updates in our CAD Lab.	Yes		Our department hosted an industry seminar last year and as a result we were provided with free lab software

			licenses last year. This year the cost of these licenses nearly tripled which may prevent us from getting needed upgrades.
7. Instructor Currency	Yes/No		One instructor was able to take advantage of college funding and the other instructor did not attend a conference / industry training last year.

New Goals: Goals can be multi-year (in Section 7 you will detail resources needed)

Goal/Outcome (This is NOT a resource request)	Timeline (long/short-term)	How will this goal improve student success or respond to other key college initiatives?	How will progress toward this goal be measured?
No new goals at this time.			

Section 7: Program Resources and Support

Using the tables below, summarize your program's unfunded resource requests. Refer to the Operations Planning Committee website: http://foothill.edu/president/operations.php for current guiding principles, rubrics and resource allocation information.

Full Time Faculty and/or Staff Positions

Position	$ Amount	Related Goal from Table in section 6 and how this resource request supports this goal.	Was position previously approved in last 3 years? (y/n)
Facility Manager (Full Time)	Reallocation of existing Division resources to move the Facility Manager's role to full-time Horticulture appt.	Goals 1 & 2	No

Unbudgeted Reassigned Time (calculate by % reassign time x salary/benefits of FT)

Has the program received college funding for reassign time in the last three years? (y/n)	If yes, indicate percent of time.
Has the program used division or department B-budget to fund reassign time? (y/n) **no**	25% for 2011/2012 for Director. No subsequent funding from Division.

Indicate duties covered by requested reassign time:

Responsibility	Estimated $	Related Goal from Table in section 6 and how this resource request supports this goal.	Est hours per month	% Time
Duties related to Director (including activities such as scheduling, outreach & recruitment, P.R., oversight of staff and faculty, facilities management, fundraising, and of course writing Program Reviews).	$ 20,000	Goals 1, 2, 3, 4, 5, 6, & 7	80 (50%)	

One Time B Budget Augmentation

Description	$ Amount	Related Goal from Table in section 6 and how this resource request supports this goal.	Previously funded in last 3 years? (y/n)
Possible need for increased funding for CAD Lab licenses.	$5,000	Goal 6	
Reserve Account for Equipment Maintenance (We have equipment and vehicles requiring maintenance and do not have the funding to keep these in working order).	$ 3,000	Goal 2	

Ongoing B Budget Augmentation

Description	$ Amount	Related Goal from Table in section 6 and how this resource request supports this goal.	Previously funded in last 3 years? (y/n)
141459	$ 5,000	Goals 1, 2, 3, 4, 5, 6, & 7	Yes
Perkins (Conference Funds)	$ 4,000	Goal 7	Partial

Facilities and Equipment

Facilities/Equipment Description	$ Amount	Related Goal from Table in section 6 and how this resource request supports this goal.	Previously funded in last 3 years? (y/n)
Lath House/Nursery Expansion & Instructional Gardens (Arboretum)	$ 300,000	Goals 1 & 2	No
Visualizer and projectors for classrooms (3 Visualizers and 7 Projectors)	Unknown	Goals 1 & 2	No
Toro Dingo Compact Utility Loader	$ 25,000	Goals 1 & 2	No
POS System and Nursery Label Maker	$ 5,000	Goals 1, 2 & 3	No
CAD Lab Software (Require annual update of lab and instructor software to remain current for instructional purposes)	$ 5,000 (Perkins)	Goal 6	Partially Funded

Section 8: Program Review Summary

Address the concerns or recommendations that were made in prior program review cycles, including any feedback from Dean/VP, Program Review Committee, etc.

Recommendation	Comments
1. No recommendations were made by either the Dean or the V.P. for 2012 / 2013.	Both administrators commended our program on both the structural aspects of our program as well as our program success.

a. After reviewing the data, what would you like to highlight about your program?

The Environmental Horticulture and Design program at Foothill College is more than just a career training program. We have strong links to both the professional and lay communities and are constantly engaged in activities which not only benefit them, but the college as well.

For example, one major project which we have been working on over the past two or three years is a set of three water harvesting / water recapture projects on campus. These projects, when completed, will save the college well over 100,000 gallons of water per year. These projects have been completed using students, faculty, staff, and consultants. In order to implement these projects we have applied for, and received, grant funding from the Schmidt Family Foundation (11th Hour Project) and the Santora Family.

Section 9: Feedback and Follow Up

This section is for the Dean to provide feedback.

a. Strengths and successes of the program as evidenced by the data and analysis:

Students in the Environmental Horticulture program enjoy success rates far in excess of the general Foothill student population. For the last 3 years, success rates for all students was greater than 90%. When targeted ethnicities are considered separately, the success rate remain 85% or higher for the last 3 years in comparison to the comparable Foothill data of 70%. The faculty are committed to providing quality education and support for all students.

The Horticulture program is uniquely appealing to individuals beginning their careers and to those who have retired or have time to pursue novel interests. There are many examples of community members who have become important supporters of the college who have come to know the Foothill community thru their experiences enrolled in Horticulture classes.

The Program Director has been central in implementing three water harvesting/ water recapture projects on campus. These efforts support Foothill's commitment to sustainability and will provide savings for the college for decades.

b. Areas of concern, if any:

Enrollment was down significantly this year (18.2%). Many discussions occurred between the Dean and Program Director on how to attract new students, modify the course offerings so that demand might increase and what new courses could be developed to attract new students. Discussion also occurred with Environmental Horticulture's Advisory Board on measures that might help enhance enrolment.

c. Recommendations for improvement:

A sharp focus on implementing all the measures discussed to increase the visibility and attractiveness of the Horticulture program should be a primary activity of the program director this year.

d. Recommended next steps:

_X_ Proceed as planned on program review schedule

___ Further review/Out of cycle in-depth review

Upon completion of section 9, the Program Review should be returned to department faculty and staff for review, then submitted to the Office of Instruction and Institutional Research for public posting. See timeline on Program Review Cover Sheet.

Unit Course Assessment Report - Four Column

Foothill College

Department - Environmental Horticulture & Design (HORT)

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 10 - ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE - SLO 2 - Global/Community Conciousness - demonstrate knowledge of the impact of urban activities on environmental systems (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** student will answer objective questions on an exam related to environmental systems in an urban area **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of the students will score an average of 75% or higher on the exam.	03/28/2013 - 91% of the students enrolled scored at a 75% level or higher on the class exam. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** more current videos and support materials **GE/IL-SLO Reflection:** The SLO for this course is still viable.	03/28/2013 - The content of the course and the materials used to support the course will continue to be updated.
		03/29/2012 - 52 students were enrolled in the class and the average score of the exam was 83.4%. 84.6% of the students enrolled scored at or above the 75% threshold goal. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** lab assistant to help monitor the large numbers of students in lab situations **GE/IL-SLO Reflection:** The students met the target for this class. The SLO is still valid and reliable and does not require alteration.	03/29/2012 - exam will be given earlier and expanded in order to avoid conflicts with project presentations
Department - Environmental Horticulture & Design (HORT) - HORT 10 - ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE - SLO 1 - Scientific Process - student will describe scientific method (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:**	**Assessment Method:** Student will perform lab exercises employing the scientific method. **Assessment Method Type:** Case Study/Analysis **Target for Success:** 80% of students will complete lab activites with an average score of 75% or higher.	03/28/2013 - 96% of the students enrolled earned an average score of 75% or higher on lab activities for the course. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** none	03/28/2013 - Lab activities need to be updated and new activities that measure environmental results need to be continually developed.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Active		**GE/IL-SLO Reflection:** The SLO cor this course is still viable.	
		03/29/2012 - 92% of the enrolled students completed the activities that required application of the scientific method with an average score of 90%. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** lab assistant to help with monitoring activities in large classes **GE/IL-SLO Reflection:** The SLO is current and an effective measure of classroom learning. No changes are anticipated in the SLO.	03/29/2012 - lab activities will be strengthened for next years class
Department - Environmental Horticulture & Design (HORT) - HORT 15 - ORIENTATION TO ENVIRONMENTAL HORTICULTURE - SLO 1 - Responsibilities - demonstrate knowledge of career opportunities in the green industry through written examinations. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will be assessed based on a multiple choice question which explores their understanding of career opportunities in the green industry. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will correctly answer the question(s) concerning career opportunities in the green industry.	12/19/2012 - 95% of the students taking the final exam were able to successfully answer questions concerning opportunities in the green industry. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	12/19/2012 - In the next cycle, new questions will be developed to better assess student knowledge of green industry career opportunities.
		01/15/2012 - 100% of students correctly answered the questions on the final exam relating to career opportunities in the green industry. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 15 - ORIENTATION TO ENVIRONMENTAL HORTICULTURE - SLO 2 - Application of knowledge - Demonstrate knowledge of the environmental horticulture sciences,	**Assessment Method:** Students will be assessed using multiple choice questions which includes images of plants, features of which must be identified. **Assessment Method Type:** Exam - Course Test/Quiz	01/15/2012 - 95% of students taking the final exam were able to meet the minimum threshold to demonstrate an understanding of horticultural terms and plant features. **Result:**	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
including plant terminology, on written examinations. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Target for Success:** Students taking the final exam will be able to correctly identify 80% of plant terms, plant features, and/or horticultural terminology.	Target Met **Year This Assessment Occurred:** 2012-2013	
Department - Environmental Horticulture & Design (HORT) - HORT 21 - PLANT MATERIALS I - SLO 1 - Knowledge - Identify trees presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field tree identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of students will obtain a score of 75% or higher on identification exams.	12/12/2012 - 95% of the students scored above 75% on the identification exams. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Plants used in class to be planted on campus **GE/IL-SLO Reflection:** The current SLO is productive and adequate.	12/12/2012 - Continue current exam methods and modify by adding aides to improve botanical name recall.
		12/14/2011 - 92% of students obtained a score of 80% or higher of identification quizzes. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** More on campus plantings to be used for field identification. **GE/IL-SLO Reflection:** SLO is reliable and valid.	12/14/2011 - Encourage planting of more diverse plant material on campus.
Department - Environmental Horticulture & Design (HORT) - HORT 21 - PLANT MATERIALS I - SLO 2 - Application of knowledge - Compare and contrast tree features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of trees for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of students will obtain a score of 75% or	12/12/2012 - 96% of the students scored above 75% on written exams measuring the outcome. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** None requested. **GE/IL-SLO Reflection:**	12/12/2012 - Continue current method of assessing students regarding this SLO.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		The current SLO is effective and adequate.	
	higher of the exam.	12/14/2011 - 90% of students obtained an average score of 95% of the exam. Averages do not include students who dropped course before end of quarter. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Lab assistant to help with class management. **GE/IL-SLO Reflection:** SLO is reliable and valid.	12/14/2011 - No major changes planned in teaching or assessment strategies.
Department - Environmental Horticulture & Design (HORT) - HORT 22 - PLANT MATERIALS II - SLO 1 - Knowledge - Identify shrubs presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field shrubs identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 80% or higher.	06/27/2013 - 92.3 % of the students enrolled in the class scored 80% or higher of identification exams. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** More plant material used in the class be planted on campus. **GE/IL-SLO Reflection:** The SLO is effective and requires no change.	06/27/2013 - Plants will continue to be updated to reflect changes in the industry.
		06/22/2012 - 95% of the students obtained a score of 87% on the identification quizzes **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** none **GE/IL-SLO Reflection:** Both the goal and the assessment method are adequate measures of student learning.	06/22/2012 - This method of assessment continues to be a good tool for motivating students to learn and to measure the the outcomes of their learning.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 22 - PLANT MATERIALS II - SLO 2 - Application of knowledge - Compare and contrast shrub features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of shrubs for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a minimum score of 80% on the exam.	06/27/2013 - 92.3% of the students enrolled in the class scored at an 80% or higher level on objective exams requiring the comparison of shrub features and cultural needs. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** No request. **GE/IL-SLO Reflection:** This SLO is adequate and does not need updating.	06/27/2013 - No significant changes will be implemented for this SLO. Minor updating of questions and responses will be ongoing.
		06/22/2012 - 100% of the students completed the objective exams with a passing score above 80%. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** none **GE/IL-SLO Reflection:** The outcome and assessment method are still valid.	06/22/2012 - The objective measurement tool has performed well in requiring students to evaluated plant material. It will continue to be the assessment method used, along with identification exams.
Department - Environmental Horticulture & Design (HORT) - HORT 23 - PLANT MATERIALS: CALIFORNIA NATIVE PLANTS - SLO 1 - Knowledge - Identify California Native Plants presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field ground California native plants identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a minimum score of 80% or higher on the exam.	07/12/2013 - 94% of the students were able to identify the plants in the course. Only one student was unable to complete the course and received a failing grade. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	07/12/2013 - No actions are necessary at this time. 10/16/2012 - A slide set is needed to increase goal achievement.
		07/15/2012 - 100% of the students achieved and higher than 80% score on their exams. They were able to identify Native plants by their botanical and common names.	10/16/2012 - A slide set is needed to increase student knowledge.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		Result: Target Met **Year This Assessment Occurred:** 2010-2011	
Department - Environmental Horticulture & Design (HORT) - HORT 23 - PLANT MATERIALS: CALIFORNIA NATIVE PLANTS - SLO 2 - Application of knowledge - Compare and contrast California Native Plants features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of ground covers and vines for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 80% or higher on 4 of the 5 graded assignments.	07/15/2012 - Students were able to select plants for specific situations based on required features and cultural conditions. 98% of the students met this requirement. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011	10/16/2012 - Additional study should help the 2% who did not meet these goals. 10/16/2012 - The 2% should be able to meet this goal with additional study. 10/16/2012 - By spending more time in the lab with students we can achieve higher scores onthe goal.
Department - Environmental Horticulture & Design (HORT) - HORT 24 - PLANT MATERIALS: GROUND COVERS & VINES - SLO 1 - Knowledge - Identify ground covers and vines presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field ground cover and vines identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students in the class will pass. Average passing score will be 75%.	12/14/2011 - 95% of the students passed the exam, with an average passing score of 86%. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** More plant examples on campus would improve learning. Limited resources now available. **GE/IL-SLO Reflection:** SLO is still reliable and valid.	12/14/2011 - Continue to update plant list and plant locations for class.
Department - Environmental Horticulture & Design (HORT) - HORT 24 - PLANT MATERIALS: GROUND COVERS & VINES - SLO 2 - Application of knowledge -	**Assessment Method:** Students will complete objective exam requiring selection of ground covers and	12/14/2011 - 95% of the students passed this SLO, with an average score of 90%. **Result:**	12/14/2011 - Improve plant data offering to class through improved data sheets.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Compare and contrast ground covers and vines features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	vines for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of students should achieve a passing score. The average score should be above 75%.	Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Additional gardens to display plant materaial covered in class. **GE/IL-SLO Reflection:** SLO is still reliable and valid.	
Department - Environmental Horticulture & Design (HORT) - HORT 25 - PLANT MATERIALS: BAMBOOS & PALMS - SLO 1 - Knowledge - Identify bamboos and palms presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field bamboo and palm identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will score 80% correct on exam.	12/12/2012 - 90% of the students scored above 80% on this series of exams. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Plants related to class to be installed on campus. **GE/IL-SLO Reflection:** This SLO is effective and adquate.	12/12/2012 - Continue current method of assessing for this SLO. Add more diversity of assessment methods in future.
Department - Environmental Horticulture & Design (HORT) - HORT 25 - PLANT MATERIALS: BAMBOOS & PALMS - SLO 2 - Application of knowledge - Compare and contrast bamboos and palms features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of bamboos and palms for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will complete 4 of 5 class assignments with a score of 80% or higher.	12/12/2012 - 100% of the class completed a minimum of 4 assignments with a score of 80% or higher. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** No request. **GE/IL-SLO Reflection:** This SLO is effective and adequate.	12/12/2012 - Continue current assessment methods for this outcome.
Department - Environmental Horticulture & Design (HORT) - HORT 26 - PLANT MATERIALS: PERENNIALS & ANNUALS - SLO 1 - Knowledge - Identify perennials and	**Assessment Method:** Students will complete field perennial and annual identification exam. **Assessment Method Type:**		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
annuals presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	Exam - Course Test/Quiz **Target for Success:** 90% of the students will pass with a score of 80% or higher.		
Department - Environmental Horticulture & Design (HORT) - HORT 26 - PLANT MATERIALS: PERENNIALS & ANNUALS - SLO 2 - Application of knowledge - Compare and contrast perennials and annuals features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of perennials and annuals for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will complete 4 of the 5 course projects with a score of 80% or higher.		
Department - Environmental Horticulture & Design (HORT) - HORT 30 - HORTICULTURAL PRACTICES: SOILS - SLO 1 - Application of Knowledge - Evaluate a soil by chemical and physical means. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will perform labs assessing soil chemical and physical properties. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 100% of the students will achieve a minimum score of 75% on the soil report.	03/26/2013 - 97.1% of the students obtained a score of 75% or higher on their soil report. **Result:** Target Not Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** soil testing supplies **GE/IL-SLO Reflection:** SLO 1 target should be adjusted to reflect non-completing students rather than include all students that start course.	03/26/2013 - Adjust success target for future courses. Continue to perform testing as currently implemented. Missed target was due to one student leaving class and not completing the soil report.
		03/29/2012 - On the soil report 100% of the enrolled students scored at 75% or higher. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** additional soil testing supplies to expand testing opportunities	03/29/2012 - plant tissue testing will be added next year if testing supplies are available

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		GE/IL-SLO Reflection: SLO may require adjustment down from 100% to accomodate those students who drop mid course. Basis of measurement is valid.	
Department - Environmental Horticulture & Design (HORT) - HORT 30 - HORTICULTURAL PRACTICES: SOILS - SLO 2 - Knowledge - Demonstrate a knowledge of terms and principles of soil chemistry, physics, and commercial management. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete an objective exam evaluating knowledge of soil management techniques. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 80% on soils exam.	03/26/2013 - 91% of the students scored 80% or higher on the main course exam. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** educational materials to present topics **GE/IL-SLO Reflection:** This SLO is still appropriate for this course.	03/26/2013 - Continue to refine and update the materials of the course and inject more class problem solving into lab activities.
		03/29/2012 - 95% of the students achieved a score of 80% or higher on the objective exam given at the conclusion of the course. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** lab assistant to help with large numbers of students in labs **GE/IL-SLO Reflection:** SLO adequately measures the course success. No changes are anticipated.	03/29/2012 - more emphasis on review and problem solving questions will be added to exam
Department - Environmental Horticulture & Design (HORT) - HORT 31 - HORTICULTURAL PRACTICES: PLANT PROPAGATION - SLO 1 - Application of Knowledge - Demonstrate an understanding of the propagation methods used in commercial plant production. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student will complete a written objective exam regarding the aspects of commercial plant propagation. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will obtain a minimum score of 75% on the exam.	04/08/2013 - 97% of the students received a grade of 75% or higher on the exam. Only one student failed the class and this student did not take the final exam. So of the students taking the exam, 100% demonstrated an understanding of commercial plant propagation. **Result:** Target Met **Year This Assessment Occurred:**	06/29/2013 - While virtually everyone had a successful experience in this course, perhaps more could be done to ensure everyone's success in this class. The student who did not complete the course experienced family issues and had to stop taking the

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Course-Level SLO Status: Active		2012-2013 **Resource Request:** Extended Lath House and Nursery facilities for instructional purposes. Existing space is too small.	class, to late to record it as a withdrawl. 04/09/2013 - Work on the retention of students. 04/09/2013 - Work on the retention of students.
Department - Environmental Horticulture & Design (HORT) - HORT 31 - HORTICULTURAL PRACTICES: PLANT PROPAGATION - SLO 2 - Knowledge - Identify basic anatomy of various different types of seeds. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will identify and describe the anatomy of seeds in lab activities. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will be able to perform necessary operations with seeds in class.		
Department - Environmental Horticulture & Design (HORT) - HORT 40 - LANDSCAPE DESIGN: GRAPHIC COMMUNICATION - SLO 1 - Application of Knowledge - demonstrate knowledge of the fundamentals of landscape design communication and landscape design process on class projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Completion of final landscape design project which demonstrates core graphic design capabilities. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully complete a final project demonstrating competency in graphic skills.	01/15/2012 - 95% of students were able to successfully complete the final project. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **GE/IL-SLO Reflection:** Final project was reformulated to increase the success rate of students for 2012/2013	12/19/2012 - Given the student success rate, no changes to the course structure are planned at this time. 12/19/2012 - No changes required at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 40 - LANDSCAPE DESIGN: GRAPHIC COMMUNICATION -	**Assessment Method:** Completion of a sketchbook. **Assessment Method Type:**	12/19/2012 - 100% of students completed the sketchbook. **Result:**	12/19/2012 - While sketch books have value in the learning process, the use of these for the next cycle

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
SLO 2 - Application of knowledge - develop visual communication "thinking" skills through the completion of a sketchbook. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	Class/Lab Project **Target for Success:** 80% of students will complete a sketchbook containing a minimum of ten sketching assignments.	Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** None at this time. **GE/IL-SLO Reflection:** While sketch books have value in the learning process, the use of these for the next cycle will be re-examined. It may be that another approach will be more productive and helpful to student learning. As a consequence, SLO 2 may be revised for 2013/2014.	will be re-examined. It may be that another approach will be more productive and helpful to student learning. As a consequence, SLO 2 may be revised for 2013/2014. 05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 45 - LANDSCAPE DESIGN: COMPUTER APPLICATIONS - SLO 1 - Knowledge - demonstrate knowledge of landscape design software command skills through development of an appropriate landscape design project. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall complete a final landscape design project illustrated competencies in computer aided design. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students shall successfully complete this project.	03/26/2013 - 100% of the students successfully completed the final project with a C or better grade. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** update software and new computers to run current version of software **GE/IL-SLO Reflection:** The SLO for this course is still viable.	03/26/2013 - Request new computers for the 8401 lab and updated software for course.
		12/12/2012 - 95% of the students successfuly completed the design project. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** Teaching assistant to help with student support, current software, upgraded computers in 8401 **GE/IL-SLO Reflection:** The SLO is effective and adequate.	12/12/2012 - No changes in assessment for this SLO. Continue to pursue funds for developing course resources.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		03/29/2012 - 100% of the students successfully completed the final landscape design project with an average score of 97%. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** updated computers and CADD software in the 8401 lab. **GE/IL-SLO Reflection:** This SLO and it's assessment method are valid and reliable. No change is anticipated.	03/29/2012 - software set for annual upgrade
		12/14/2011 - 94% of the students completed the assignments. Two students tested out or dropped prior to testing. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Software needs to be updated. Need for lab assistant time is necessary. **GE/IL-SLO Reflection:** SLO is reliable and valid.	12/14/2011 - Will seek funds to upgrade software. Assignments will be refined to better test skills.
Department - Environmental Horticulture & Design (HORT) - HORT 45 - LANDSCAPE DESIGN: COMPUTER APPLICATIONS - SLO 2 - Application of knowledge - utilize the terminology appurtenant to computer aided design software. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** In lab, student will be able to converse with other students and instructor using appropriate CAD terminology. **Assessment Method Type:** Discussion/Participation **Target for Success:** 100% of students should be able to utilize computer terminology.	03/26/2013 - 100% of the students were competent with computer terminlology **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** New computers in 8401 lab. **GE/IL-SLO Reflection:** SLO is still viable and requires no changes.	03/26/2013 - No changes in instruction. New computers needed in 8401 lab.
		12/12/2012 - 95% of the students were able to converse using the appropriate terms. **Result:**	12/12/2012 - Consider a prerequisite or advisory of computer basic skills necessary for course.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		Target Not Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Teaching assistant. **GE/IL-SLO Reflection:** The target for success may need to be adjusted to accomodate students with limited disabilities. The failure to meet the target was due primarily to a student with challenges in learning.	Continue to pursue funding for teaching assistant to help with challenged students.
		03/29/2012 - 100% of the students obtained an excellent ability to understand and converse using the terminology appropriate to the CAD software. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** updated computers and CADD software for 8401 lab **GE/IL-SLO Reflection:** This SLO is valid and reliable. No change is anticipted.	03/29/2012 - software set for annual upgrade
		12/14/2011 - 100% of students who remained in class throughout quarter were able to converse in terms and language appropriate to technology. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Softward needs to be updated. Lab assistant required. **GE/IL-SLO Reflection:** SLO is reliable and valid.	12/14/2011 - Seek funds for software upgrade. Encourage more in-class tutoring and discussion of issues.
Department - Environmental Horticulture & Design (HORT) - HORT 52C -	**Assessment Method:** Student will complete a performance	06/27/2013 - 91.3% of the students enrolled scored a minimum of 85% on the pruning skills	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE - SLO 1 - Application of Knowledge - Demonstrate skills required for proper pruning of various species of trees and shrubs. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	evaluation of their pruning skills. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a minimum score of 85% on their skill evaluation.	evaluations. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continued equipment updating and pruning opportunities on campus. **GE/IL-SLO Reflection:** This SLO remains adequate for the current situation. If more students fail to attend after registration the 90% may need adjusting to reflect those who actually participate.	06/27/2013 - Continued updating of notes and assessment methods for pruning skills.
		06/22/2012 - 90% of the students achieved a minimum score of 85% on their skill evaluation. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** none **GE/IL-SLO Reflection:** The slo and assessment method are adequate.	06/22/2012 - Students were able to participate in skill evaluation in several areas this year, including pruning and planting. More opportunities to install plant material would enhance their learning activities.
Department - Environmental Horticulture & Design (HORT) - HORT 52C - HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE - SLO 2 - Application of knowledge - Plant trees and shrubs. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete a performance evaluation of their planting skills. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will score a minimimum of 85% on their skills evaluation.	06/27/2013 - 100% of the enrolled students scores at 85% or higher on their planting skills evaluation. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Planting opportunities on campus. Continued help of lab assistant. **GE/IL-SLO Reflection:** This SLO is adequate for this competency and does not need updating.	06/27/2013 - Continue to seek out opportunities to install plants on campus.
		06/22/2012 - 95% of the students scored a	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		minimum of 85% on their planting skills. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** planting opportunities **GE/IL-SLO Reflection:** The slo and assessment area adequate.	06/22/2012 - While the chances to physically participate in plant installation, more opportunities, both on campus and off campus, would enhance the learning activity.
Department - Environmental Horticulture & Design (HORT) - HORT 52E - HORTICULTURAL PRACTICES: GREENHOUSE & NURSERY MANAGEMENT - SLO 1 - Application of Knowledge - Demonstrate skill required to maintain greenhouse and nursery facilities (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will perform graded lab activities in greenhouse and nursery facility management. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of the students will produce a living crop by the end of the class.	12/13/2011 - 90% of the attempted crop productions were successful. 10% crop failure was primarily due to selected propagation method rather than facility management. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Additional assistance from lab assistant would help with between class facility management. Facilities and resources adequate. **GE/IL-SLO Reflection:** SLO is appropriate for this class.	12/14/2011 - Improve propagation method selection process for future classes. Add lab assistant to monitor plants between classes.
Department - Environmental Horticulture & Design (HORT) - HORT 52E - HORTICULTURAL PRACTICES: GREENHOUSE & NURSERY MANAGEMENT - SLO 2 - Knowledge - Identify major types of growing structures and their respective roles in commercial plant production. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete an objective exam or report in the identification and classification of growing structures. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of class can identify structures and recommend appropriate use.	12/14/2011 - 100% of students who completed course successfully identified structures and use. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** Lab assistant to help with greenhouse management. **GE/IL-SLO Reflection:** SLO is reliable and valid.	12/14/2011 - No major changes anticipated for this class. More off-site travel to businesses using these structures can be included when the class moves to day time offering.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 52F - HORTICULTURAL PRACTICES: INTERIORSCAPING - SLO 1 - Application of Knowledge - Select suitable plants for interior environments. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will take an objective multiple choice exam selecting plants suitable for interior cultural situations. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 85% on the exam.		
Department - Environmental Horticulture & Design (HORT) - HORT 52F - HORTICULTURAL PRACTICES: INTERIORSCAPING - SLO 2 - Application of knowledge - Exhibit an understanding of design principles influencing interiorscaping. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will prepare a design of an interior space using appropriate plant material. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a minimum score of 85% on their design.		
Department - Environmental Horticulture & Design (HORT) - HORT 52G - HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT - SLO 1 - Knowledge - Identify common turf grasses. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete field turf grass identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 85% or higher on the exam.	01/11/2013 - All students in the course were able to consistently identify different types of turf on a grass identification exam. One student who passed the class was not able to complete all the work but met the target for success. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** More turf demonstration equipment.	01/11/2013 - No changes required at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 52G - HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT - SLO 2 - Application of knowledge - Demonstrate	**Assessment Method:** Student will complete a performance evaluation lab demonstrating ability to install sod and seeding a lawn. **Assessment Method Type:**	07/15/2012 - 98% of the class was able to complete a performance evaluation by demonstrating the ability to install sod and to seed a lawn.	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
methods of installing a lawn by sodding or seeding. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	Class/Lab Project **Target for Success:** 90% of the students will achieve a score of 60% or higher in lab activity.	**Result:** Target Met **Year This Assessment Occurred:** 2010-2011	
Department - Environmental Horticulture & Design (HORT) - HORT 52H - HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT - SLO 1 - Knowledge - Identify various plant diseases, insects, and weeds. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete and identification quiz of common plant diseases, insects, and weeds. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will score a minimim of 85% on a field identification exam.	07/05/2013 - While there was one student who received an incomplete in the course, this student is expected to complete the missing work and pass the course. Aside from this, 100% of the students were able to identify plant diseases, insects and weeds on a field survey exam. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Digital slides of pests and diseases.	07/05/2013 - No changes required at this time. 10/16/2012 - I wil order slide sets with the various insect, diseases, and weeds to increase knowledge.
Department - Environmental Horticulture & Design (HORT) - HORT 52H - HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT - SLO 2 - Application of knowledge - Demonstrate skills in developing integrated pest management plans. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will write an integrated pest management plan for a horticultural facility. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will score a minimum of 85% on the plan.	07/15/2012 - 98% of the students were able to complete an Integrated Pest Management plan for a horticultural facility. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	10/16/2012 - MOre study time would increase the 2% level of knowledge. 10/16/2012 - The 2% who did not meet this goal, can meet it with additonal study
Department - Environmental Horticulture & Design (HORT) - HORT 54A - LANDSCAPE CONSTRUCTION: GENERAL PRACTICES - SLO 1 - Knowledge - correctly identify tools used in landscape construction. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:**	**Assessment Method:** Students are given a mid-term exam in week 6 which asks students to define and/or identify a variety of tools used in landscape construction. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will pass the portion of the	12/19/2012 - 93% of students were able to correctly identify tools used in landscape construction. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:**	12/19/2012 - Expansion of tools in lab will increase student learning and understanding of the correct use of tools in landscape construction.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Active	exam related to tools.	More tools for use in construction labs.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 54A - LANDSCAPE CONSTRUCTION: GENERAL PRACTICES - SLO 2 - Application of knowledge - demonstrate, on manipulative examinations, the implementation of basic landscape construction projects using a variety of building materials and hardware. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** 90% of students will be able to physically demonstrate the steps in building a wood deck during a field lab. **Assessment Method Type:** Class/Lab Project **Target for Success:** All students participating in this lab section will successfully complete the building of a wood deck.	12/19/2012 - 100% of the students were able to successfully complete the construction of a wood deck. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **GE/IL-SLO Reflection:** All students were able to meet this target.	12/19/2012 - Need more tools and supplies for use in this course. Deck materials, hardware, screw guns, etc. are needed to conduct this part of the course. 05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 54B - LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES - SLO 1 - Application of Knowledge - demonstrate, on manipulative examinations, the correct use of surveying tools used in landscape construction projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will be evaluated in the field in their successful use and understanding of landscape survey equipment. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of the students will demonstrate proficiency in the use of survey tools.	04/25/2013 - 96% of the students in the landscape construction class were able to demonstrate proficiency in the use of survey equipment. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Some additional purchases must be made to update our survey equipment.	04/25/2013 - Secure new and updated equipment for use in the Survey Lab.
		04/14/2012 - For this quarter, 100% of the students participated in the survey lab and demonstrated the necessary skills to perform site surveys. **Result:** Target Met **Year This Assessment Occurred:**	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		2011-2012 **GE/IL-SLO Reflection:** Current Survey Lab is an effective tool.	
Department - Environmental Horticulture & Design (HORT) - HORT 54B - LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES - SLO 2 - Application of knowledge - demonstrate, on written examinations, knowledge of estimating techniques used in landscape construction. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Multiple choice question on estimating techniques that demonstrates mastery of core concepts in landscape estimating. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will pass sections of the test relating to estimating concepts.	04/25/2013 - Only 74% of students were able to demonstrate a comprehensive knowledge of estimating concepts. One student did not finish the course and two missed the estimating altogether. I believe the remainder of the students had a good working knowledge of the concepts used in landscape estimating. **Result:** Target Not Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Additional estimating equipment and software is needed for teaching this course.	04/25/2013 - 1. Work with students who are not keeping up with the class with the goal of improving retention and successful learning experiences. 2. Update estimating equipment and software.
		04/14/2012 - 92% of the students were able to correctly answer key questions regarding landscape estimating methods on the final exam. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** Estimating can be a difficult concept to grasp. All the students in the class demonstrated a baseline understanding of estimating. However, a few were unable to show a comprehensive understanding of the subject.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 54C - LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES - SLO 1 - Knowledge - identify	**Assessment Method:** On a multiple choice exam, student will be able to correctly identify 80% of common irrigation components.	04/25/2013 - 94% of the students in the Irrigation Practices course were correctly able to identify 80% of common irrigation components. **Result:**	04/25/2013 - No changes are needed at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
the parts of an irrigation system (pipes and fittings, sprinkler heads, valves, backflow preventers, drip systems, and controllers). (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will meet the benchmark requirement for the identification of irrigation components.	Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** None at this time	
		04/14/2012 - All of the students were able to meet the benchmark requirement for the identification of irrigation components. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** While everyone passed this part of the exam, there are still some students that could have done better than just the bench mark. Instructor will spend more time on this aspect of the class in next year's class.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 54C - LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES - SLO 2 - Application of knowledge - program an irrigation time clock (controller) correctly. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** In a controller programming lab, student will demonstrate mastery of irrigation controller programming. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students will demonstrate competency in the programming of an irrigation controller.	04/25/2013 - The irrigation controller programming lab occurs near the end of the quarter. 94% of the students taking the course were able to complete the lab and demonstrate an understanding of controller programming. 2 people missed the lab altogether. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** None at this time	04/25/2013 - No changes are needed at this time.
		04/14/2012 - Every student who participated in the controller programming lab was able to demonstrate proficiency. **Result:** Target Met **Year This Assessment Occurred:**	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** One person missed the lab and did not make it up. Otherwise the lab was an effective learning tool.	
Department - Environmental Horticulture & Design (HORT) - HORT 54D - LANDSCAPE CONSTRUCTION: APPLIED PRACTICES - SLO 1 - Application of Knowledge - Construct specialized and advanced landscape projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will demonstrate skills by participating in construction of landscape projects in lab. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students participating in the labs will demonstrate proficiency in the construction of landscape projects.	06/24/2013 - 93% of the class demonstrated proficiency in the construction of landscape projects, with the remaining 7% being one student who did not participate in the class. All students participated in successful construction of campus projects. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** lab assistance, consumable materials (wood, concrete, etc) for projects **GE/IL-SLO Reflection:** The SLO is adequate and should remain as published.	06/24/2013 - The class will continue to plan and construct projects in the campus environment that address the basic skills necessary for landscape construction.
		06/22/2012 - 100% of the students obtained proficiency in completing landscape construction projects provided for class. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** funds for supplies and materials consumed in class **GE/IL-SLO Reflection:** This slo and assessment method remains valid.	06/22/2012 - The students performed very well in the activities presented. Carpentry and paving activities were reduced due to lack of time and resources to purchase supplies for the class and the lack of on-campus projects.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 54D - LANDSCAPE CONSTRUCTION: APPLIED PRACTICES - SLO 2 - Application of knowledge - Operate motorized landscape equipment. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will demonstrate skills in a practical activity laboratory. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students participating in the labs will demonstrate proficiency in the use of motorized landscape equipment.	06/24/2013 - 93% of the students demonstrated proficiency in operating motorized landscape equipment, including skid-steer, motorized wheel barrow, saws and jackhammer. The remaining 7% are a result of one student not participating. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continued updating of existing equipment and supply new equipment. **GE/IL-SLO Reflection:** The SLO for this competency is adequate.	06/24/2013 - As funds permit, new equipment will be added to the range of options available for the student to learn how to operate.
		06/22/2012 - 100% of the students demonstrated proficiency in operating the motorized equipment used in the class. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** expand the type of equipment available for teaching **GE/IL-SLO Reflection:** This slo and assessment is valid.	06/22/2012 - An attempt will be made to continue to expand the types of equipment that the students learn to operate. Limits to that expansion are the availability of equipment to purchase or rent and the funds to do so.
Department - Environmental Horticulture & Design (HORT) - HORT 55A - GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES - SLO 1 - Responsibilities - Discuss common management problems and potential solutions. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Through classroom participation and open discussions, students will demonstrate an understanding of the basic business practices utilized in the green industry. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of the students will participate in classroom activities which demonstrate an understanding of the basic business	03/27/2013 - 100% of the students enrolled in the class completed classroom activities at a 74% (C letter grade) score or higher. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** none **GE/IL-SLO Reflection:** SLO is adequate for this competency.	03/27/2013 - Course will require continued monitoring of changing conditions in the business world.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
	practices utilized in the green industry and obtain an average score of 74% (C level) in those exercises.	03/29/2012 - Students who were present in the class participated in the discussions and activities related to business practices. Attendance averaged 95.8% for the class throughout the quarter. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** none requested **GE/IL-SLO Reflection:** The measure is moderately effective in measuring success. No measure exists to guage the level of participation. No significant changes are anticipated for this SLO.	03/29/2012 - add more problem solving scenarios to next years class
Department - Environmental Horticulture & Design (HORT) - HORT 55A - GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES - SLO 2 - Application of knowledge - Prepare a written business or stategic management plan. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Successful completion of a business or strategic management plan. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully complete at a 74% (C grade) level a business plan or business related research project.	03/27/2013 - 93% of the enrolled students successfully completed a business plan or management plan at a 74% (C grade level) level or higher. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** none **GE/IL-SLO Reflection:** SLO requires updating to reflect current status of grading criteria.	03/27/2013 - The SLO will be updated following the completion of this assessment round. The requirement has been expanded from a business plan to a business research project.
		03/29/2012 - 98% of the students completed a business, stragegic management plan, marketing plan, employee manual or an objective exam covering the class topics. The average score was 95% for the completed assignments. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	03/29/2012 - formalize the addition of a variety of options to meet the final grading criteria for next years class

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		Resource Request: none requested **GE/IL-SLO Reflection:** The SLO and assessment method should be adjusted to reflect the expanded assignment offerings.	
Department - Environmental Horticulture & Design (HORT) - HORT 55B - GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES - SLO 1 - Responsibilities - List activities involved in recruiting and managing employees. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 55B - GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES - SLO 2 - Job tasks - Demonstrate knowledge of human resource management techniques. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 60B - LANDSCAPE DESIGN: THEORY - SLO 1 - Application of Knowledge - exhibit an understanding of the elements and principles of landscape design theory through class projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will demonstrate mastery of design principles through completion of a final project. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students will successfully complete a final project exhibiting a clear understanding of landscape design theory.	04/25/2013 - 97% of the students successfully completed the final project. Only one student (who had been attending class regularly), did not turn in her final project. In her case, she did show progress during plan checks, but never attended the final class. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:**	04/25/2013 - No changes are needed at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		None at this time	
		04/14/2012 - 97% of the students in the class successfully completed their final project with a grade of B or better. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Only one student failed to successfully complete their final project.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 60B - LANDSCAPE DESIGN: THEORY - SLO 2 - Application of knowledge - demonstrate knowledge of intermediate graphic communication skills as they relate to landscape design problems through a series of projects. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student will demonstrate intermediate graphic communication skills on a project involving color rendering. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students will complete a project related to the use of color.	04/25/2013 - 97% of the students demonstrated a good level of proficiency in executing the use of color on a landscape plan. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **GE/IL-SLO Reflection:** Again, the one student who did not complete the class also did not turn in the final color assignment. We believe she has dropped out of the program.	04/25/2013 - No changes are needed at this time.
		04/14/2012 - 97% of students demonstrated the minimum proficiency of the use of color on an illustrative landscape plan. 100% of the students demonstrated a working knowledge of color in an in-class lab. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** No changes are need to the format of this part of the class at this time.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 60C - LANDSCAPE DESIGN: IRRIGATION - SLO 1 - Application of Knowledge - Develop an irrigation plan for a residential or small commercial irrigation system. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete an irrigation design for a residential or small commercial site which demonstrates competency in all facets of irrigation design **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students will successfully complete the final irrigation design project.	06/29/2013 - All but two of the students were successfully able to complete the irrigation project. This is an 86% success rate which is below our 90% goal. Overall, given the changes which were made to the course this year, the comprehension level of the material and quality of submittals was greatly improved so from this perspective it was a success. The two students not completing the project stopped participating in the design process early on and even with couching showed little to no interest in completing the project. **Result:** Target Not Met **Year This Assessment Occurred:** 2012-2013	06/29/2013 - I believe there is little that can be done to improve this course. The real issue is that from time-to-time we get students who are in need of additional counseling resources. Unfortunately, even when we try to get these students the help they need, they will not take advantage of the resources available to them at Foothill College 06/29/2012 - Some changes will be made to the final irrigation project in 2013 to give students the opportunity to get an earlier start on the project. I will also be changing the project slightly to allow students, who choose to do so, to work more independently of their group
Department - Environmental Horticulture & Design (HORT) - HORT 60C - LANDSCAPE DESIGN: IRRIGATION - SLO 2 - Application of knowledge - interpret irrigation drawings, details, and specifications. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Multiple choice exam question which specifically tests knowledge of one aspect of irrigation plan reading. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of students will pass the section of the exam relating to irrigation plan reading.	06/29/2012 - Even though two students did not finish the final project, all students took and passed the exam sections covering irrigation plan reading. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	06/29/2013 - No changes required at this time. 06/29/2012 - No changes are needed at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 60D - LANDSCAPE DESIGN: PLANTING - SLO 1 - Application of Knowledge - Demonstrate, through assigned projects, knowledge of planting	**Assessment Method:** Student shall complete a series of short projects which illustrate knowledge of aesthetic, cultural, ecological, and functional	06/29/2013 - 100% of students completed the series of short projects. **Result:** Target Met	06/29/2013 - No actions required at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
design as it relates to the aesthetic, cultural, ecological, and functional use of plants in the landscape. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	uses of plants in the landscape. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students shall successfully complete the short projects.	**Year This Assessment Occurred:** 2012-2013	
Department - Environmental Horticulture & Design (HORT) - HORT 60D - LANDSCAPE DESIGN: PLANTING - SLO 2 - Application of knowledge - demonstrate proficiency in creating planting plans for residential landscape projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall complete a final project which illustrates their knowledge of planting design principles. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students shall successfully complete the final planting design project.	06/29/2013 - 97% of the students successfully completed their final projects and were able to clearly demonstrate their knowledge of planting design principles. The student who did not complete her project made substantial progress but failed to turn in the project by the extended deadline. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	06/29/2013 - No actions necessary at the current time.
Department - Environmental Horticulture & Design (HORT) - HORT 60F - LANDSCAPE DESIGN: PROCESS - SLO 1 - Application of Knowledge - exhibit an understanding of the principles of landscape design process through one or more residential design projects. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall complete a final residential landscape design project which demonstrates competency in landscape design process. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students shall successfully complete the final residential landscape design project.	06/29/2012 - 85% of the students in this class were successfully able to complete a residential landscape design project. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	06/29/2012 - This class requires a higher level of dedication than other classes in the program. The success rate for students completing the course was actually 100% becuase two students dropped out of the class by the drop date. No changes are needed at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 60F - LANDSCAPE DESIGN: PROCESS - SLO 2 - Application of knowledge - prepare a project timeline and budget. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student shall prepare a project timeline for the successful completion of a residential landscape design project. **Assessment Method Type:** Class/Lab Project **Target for Success:**	06/29/2012 - 100% of the students were able to demonstrate the ability to prepare a project timeline and budget. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	06/29/2012 - Everyone in the class demonstrated proficiency in completing the design project within the timeline and met the client's budget criteria.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Course-Level SLO Status: Active	90% of students completing the course will demonstrate competency in preparing a project timeline and budget.		
Department - Environmental Horticulture & Design (HORT) - HORT 60G - LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS - SLO 1 - Knowledge - Export drawings to printers and external files. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will create pdf of files and send them to external device. **Assessment Method Type:** Class/Lab Project **Target for Success:** 100% of students will be able to successfully complete pdf export.	06/24/2013 - 100% of the students completing the class were able to produce and export pdf examples of their work. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continued updating of software. New computers for 8401 with more powerful processors. **GE/IL-SLO Reflection:** The SLO for this competency is adequate.	06/24/2013 - An adjustment in the assignments will be planned for next year to allow more emphasis on the 3 dimensional portion of the program.
		06/26/2012 - 100% of the students were able to submit their projects via pdf and print hard copy of their work. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** updated software and additional demonstration software such as autocadd and/or dynascape **GE/IL-SLO Reflection:** The slo and assessment are valid for this class.	06/26/2012 - Lectures and course contect were reconstructed for this class. Continued rewriting of course with more emphasis on 3D drawing will be undertaken before next offering.
Department - Environmental Horticulture & Design (HORT) - HORT 60G - LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS - SLO 2 - Application of knowledge - Produce three-dimensional renderings of designs. (Created By	**Assessment Method:** Student will produce a three-dimensional drawing of a site. **Assessment Method Type:** Class/Lab Project **Target for Success:**	06/24/2013 - 100% of the students were able to complete a 3d drawing of their project using both vectorworks and sketchup. **Result:** Target Met **Year This Assessment Occurred:**	06/24/2013 - The project array and the lecture material will be updated this year to provide more emphasis on the vectorworks 3d portion of the program, while the sketchup

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	90% of students will be able to complete a 3d drawing.	2012-2013 **Resource Request:** Continued updating of software. New computers in 8401 with more powerful processors. **GE/IL-SLO Reflection:** The SLO for this competency is adequate.	material will be moved to a dedicated sketchup class.
		06/26/2012 - 100% of the students were able to produce a 3D drawing using vectorworks and sketchup. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** updated software **GE/IL-SLO Reflection:** The slo and assessment method are valid for this class.	06/26/2012 - Continued updating of 3D lectures and projects will occur before next offering of the course.
Department - Environmental Horticulture & Design (HORT) - HORT 80 - ENVIRONMENTAL HORTICULTURE SKILLS - SLO 1 - Job responsibilities - Develop horticultural work skills under the guidance of a horticultural unit supervisor for an average of two hours per week. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall meet the minimum required hours for on-site instruction in environmental horticulture skills. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of students shall complete required on-site instruction.	12/13/2012 - 98% of the students met the minimum supervised hours required for the course. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continued participation by lab assistant in support of class activities. **GE/IL-SLO Reflection:** This SLO remains effective and relavant.	12/13/2012 - No major changes in course structure are required for this SLO. Continue working with available facility projects.
		01/15/2012 - 85% of the students completed the on-site instructional component of the class. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	06/26/2012 - Students were very successful in completing on-campus activities and off-campus opportunities. Students exceeded on-site instruction component hours by almost 200

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
			%. 05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time. However, we hope to increase our success rate through more student/instructor interaction during the next year.
Department - Environmental Horticulture & Design (HORT) - HORT 80 - ENVIRONMENTAL HORTICULTURE SKILLS - SLO 2 - Job tasks - Explore industry associations and industry contacts for employment opportunities. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall demonstrate involvement in industry associations and/or industry contacts through student membership or through seminars held by the horticulture program or an outside industry group. **Assessment Method Type:** Discussion/Participation **Target for Success:** Through completion of the course contract, 80% of students completing the class will demonstrate involvement in professional associations, horticultural seminars, or green industry related activities.	12/13/2012 - 100% of the students either working in the industry, participated in volunteer activities within the industry, or attended seminars presented by the industry. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continue availability of lab assistant. **GE/IL-SLO Reflection:** This SLO remains effective and relevant.	12/13/2012 - Increase the number of in-class presentations by industry and continue to grow the volunteer opportunities within industry.
		01/15/2012 - 85% of students completed the course contract. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	06/26/2012 - A new compost area was constructed by students to demonstrate composting methods. Students interacted with club activities and CLCA to develop ties with industry associations. 05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 80A - ENVIRONMENTAL HORTICULTURE FALL SKILLS - SLO 1 - Job Responsibilities - Develop Fall horticultural work skills under the guidance of a horticultural unit supervisor for an average of four hours per week. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall participate in on-site instruction for Fall environmental horticulture skills. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of students shall complete required on-site instruction as demonstrated in Practical Skills Labs and Events.		
Department - Environmental Horticulture & Design (HORT) - HORT 80A - ENVIRONMENTAL HORTICULTURE FALL SKILLS - SLO 2 – Job Tasks - During the Fall season, explore industry association and industry contacts for employment opportunities. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall demonstrate Fall season involvement in industry associations and/or industry contacts through student membership or through seminars held by the horticulture program or an outside industry group. **Assessment Method Type:** Discussion/Participation **Target for Success:** Through completion of the course contract, 80% of students completing the class will demonstrate involvement in professional associations, horticultural seminars, or green industry related activities.		
Department - Environmental Horticulture & Design (HORT) - HORT 80B - ENVIRONMENTAL HORTICULTURE WINTER SKILLS - SLO 1 - Job Responsibilities - Develop Winter	**Assessment Method:** Student shall participate in on-site instruction for Winter environmental horticulture skills. **Assessment Method Type:**		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
horticultural work skills under the guidance of a horticultural unit supervisor for an average of four hours per week. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	Discussion/Participation **Target for Success:** 80% of students shall complete required on-site instruction as demonstrated in Practical Skills Labs and Events.		
Department - Environmental Horticulture & Design (HORT) - HORT 80B - ENVIRONMENTAL HORTICULTURE WINTER SKILLS - SLO 2 – Job Tasks - During the Winter season, explore industry association and industry contacts for employment opportunities. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall demonstrate Winter season involvement in industry associations and/or industry contacts through student membership or through seminars held by the horticulture program or an outside industry group. **Assessment Method Type:** Discussion/Participation **Target for Success:** Through completion of the course contract, 80% of students completing the class will demonstrate involvement in professional associations, horticultural seminars, or green industry related activities.		
Department - Environmental Horticulture & Design (HORT) - HORT 80C - ENVIRONMENTAL HORTICULTURE SPRING SKILLS - SLO 1 - Job Responsibilities - Develop Spring horticultural work skills under the guidance of a horticultural unit supervisor for an average of four hours per week. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student shall participate in on-site instruction for Spring environmental horticulture skills. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of students shall complete required on-site instruction as demonstrated in Practical Skills Labs and Events.		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Assessment Cycles: End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 80C - ENVIRONMENTAL HORTICULTURE SPRING SKILLS - SLO 2 – Job Tasks - During the Spring season, explore industry association and industry contacts for employment opportunities. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall demonstrate Spring season involvement in industry associations and/or industry contacts through student membership or through seminars held by the horticulture program or an outside industry group. **Assessment Method Type:** Discussion/Participation **Target for Success:** Through completion of the course contract, 80% of students completing the class will demonstrate involvement in professional associations, horticultural seminars, or green industry related activities.		
Department - Environmental Horticulture & Design (HORT) - HORT 80D - ENVIRONMENTAL HORTICULTURE SUMMER SKILLS - SLO 1 - Job Responsibilities - Develop Summer horticultural work skills under the guidance of a horticultural unit supervisor for an average of four hours per week. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:**	**Assessment Method:** Student shall participate in on-site instruction for Summer environmental horticulture skills. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of students shall complete required on-site instruction as demonstrated in Practical Skills Labs and Events.		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
06/27/2014 **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 80D - ENVIRONMENTAL HORTICULTURE SUMMER SKILLS - SLO 2 – Job Tasks - During the Summer season, explore industry association and industry contacts for employment opportunities. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Quarter **Start Date:** 09/23/2013 **End Date:** 06/27/2014 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall demonstrate Summer season involvement in industry associations and/or industry contacts through student membership or through seminars held by the horticulture program or an outside industry group. **Assessment Method Type:** Discussion/Participation **Target for Success:** Through completion of the course contract, 80% of students completing the class will demonstrate involvement in professional associations, horticultural seminars, or green industry related activities.		
Department - Environmental Horticulture & Design (HORT) - HORT 90A - CONTAINER PLANTINGS IN THE LANDSCAPE - SLO 1 - Knowledge - Identify plantings appropriate for container plantings. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete field container plant identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will successfully be able to identify container plants used in class.	04/25/2013 - 100% of the students in the Container Plantings class were able to correctly identify container plants used in the labs. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Plant and container supplies to be used in the class.	04/25/2013 - Find resources to secure more plant and container supplies to be utilized in the class.
Department - Environmental Horticulture & Design (HORT) - HORT 90A - CONTAINER PLANTINGS IN THE LANDSCAPE - SLO 2 - Knowledge - Compare and contrast container plant features and cultural needs. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student will create container planting using selected plants. **Assessment Method Type:** Class/Lab Project **Target for Success:** 90% of students completing the class shall have created a variety of container plantings.	04/25/2013 - 100% of the students in the class created a variety of container plantings, including the use of perennials and succulents. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:**	04/25/2013 - Find resources to secure more plant and container supplies to be utilized in the class.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Course-Level SLO Status: Active		Plant and container supplies to be used in the class.	
Department - Environmental Horticulture & Design (HORT) - HORT 90C - GARDEN PONDS & WATER FEATURES - SLO 1 - Knowledge - Student will be able to install a water feature in the landscape. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Through practical skills labs, students were either successful in physically installing a garden water feature or were able to demonstrate to the instructor that they had an understanding of the installation of the water feature. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will be able to demonstrate an understanding of the key concepts used in creating garden water features.	12/19/2012 - 100% of students completing the course were able to demonstrate an understanding of the key concepts used in creating garden water features. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Pond and water feature supplies. Rock, boulders and gravel.	12/19/2012 - Supplies are needed to teach this class. These include pond and water feature supplies, rock, boulders and gravel.
Department - Environmental Horticulture & Design (HORT) - HORT 90C - GARDEN PONDS & WATER FEATURES - SLO 2 - Application of Knowledge - As part of a lab, students will be able to demonstrate knowledge of the main components required to design a garden water feature. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** 80% of students will be able to correctly identify the key components utilized in the construction of garden water features. **Assessment Method Type:** Class/Lab Project	12/19/2012 - 95% of students were able to correctly identify the key components used in the construction of garden water features. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Pond and water feature supplies. Rock, boulders and gravel.	12/19/2012 - Supplies are needed for this class. Pond and water feature supplies. Rock, boulders and gravel.
Department - Environmental Horticulture & Design (HORT) - HORT 90D - HERBS: IDENTIFICATION, USE & FOLKLORE - Knowledge - Identify common herbs used for culinary, medicinal, spiritual and decorative purposes. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field herbs identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students taking the class shall be able to correctly pass the plant identification class with a grade of 80% or better.		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 90D - HERBS: IDENTIFICATION, USE & FOLKLORE - Appreciation of other cultures - Describe the history of herbs used for cultural activities. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 90E - HORTICULTURAL & LANDSCAPE PHOTOGRAPHY - SLO 1 - Knowledge - Exhibit a basic understanding of photographic equipment use. (Created By Department - Environmental Horticulture & Design (HORT)) **Start Date:** 09/23/2013 **End Date:** 12/13/2013 **Course-Level SLO Status:** Active	**Assessment Method:** Student shall be reviewed by instructor for basic proficiency in the use of photographic equipment and deemed to have basic competencies. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will demonstrate basic proficiencies in camera use to the instructor.	10/14/2013 - 94% of students completed the Landscape Project assignment. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **GE/IL-SLO Reflection:** Critical Thinking Rubric 1. Knowledge-Students demonstrated understanding of terms, concepts and principles of how the camera sees Knowledge-Students applied theoretic concepts to varied contexts (and situations). 09/17/2012 - 100% of students submitted a project that reflected basic knowledge of the major controls of the camera. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students demonstrated an understanding of the terms, concepts and principles of the camera. Students assessed and addressed potential visual problems when recording and interpreting a horticultural feature (as presented in gardens, landscape designs or classifications) by using newly learned camera skills to produce the best solution.	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		05/18/2012 - All students finishing the class were able to demonstrate basic proficiencies in camera use. This exceeded the 80% threshold. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Based on student success, no changes are necessary to the assessment method at this time.	05/18/2012 - Based on student success, no changes are necessary to the assessment method at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90E - HORTICULTURAL & LANDSCAPE PHOTOGRAPHY - SLO 2 - Application of knowledge - Photography of landscapes, construction projects, plant identification, and landscape designs for portfolio presentation. (Created By Department - Environmental Horticulture & Design (HORT)) **Start Date:** 09/23/2013 **End Date:** 12/13/2013 **Course-Level SLO Status:** Active	**Assessment Method:** Completion of one or more student photo projects involving landscape settings or landscape installations. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will complete the student photo projects.	10/14/2013 - 94% of students completed the student project **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **GE/IL-SLO Reflection:** Critical Thinking 1. Knowledge-Demonstrates understanding of the assigned material	
		09/17/2012 - 100% of students completed the photo project. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students applied the knowledge and skills of the discipline to solve potential visual interpretation problems. Previously ambiguous photographs were re-made stronger and more effective by application of awareness of color, light and shape & pattern. Horticultural scenes/locations are now seen as intentionally organized and are optimized photographically to show the best aspects of these designs.	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		05/18/2012 - All students completing the class were able to complete the student photo project. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Based on student success, no changes are necessary to the assessment method at this time.	05/18/2012 - Based on student success, no changes are necessary to the assessment method at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90F - LANDSCAPE DESIGN: BASIC PRINCIPLES - SLO 1 - Application of Knowledge - Demonstrate landscape design skills. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will prepare a landscape design. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will complete a design charette or landscape design project.	03/27/2013 - 88% of the enrolled students sucessfully completed a design charette or landscape design project. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** none **GE/IL-SLO Reflection:** This SLO is adequate.	03/27/2013 - No changes in teaching strategies of methods are necessary for this competency.
Department - Environmental Horticulture & Design (HORT) - HORT 90F - LANDSCAPE DESIGN: BASIC PRINCIPLES - SLO 2 - Knowledge - Exhibit understanding of design theory and process. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will demonstrate design theory and process in lab exercises. **Assessment Method Type:** Class/Lab Project **Target for Success:** Through in-class labs, 80% of students will complete design exercises with an average of 74% success or higher.	03/27/2013 - 88% of the students successfully participated and completed design exercises. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** none **GE/IL-SLO Reflection:** This SLO should be updated to include definition of successful participation.	03/27/2013 - SLO will be updated following quarter.
Department - Environmental Horticulture & Design (HORT) - HORT 90G - LANDSCAPE DESIGN FORUM - SLO 1 - Knowledge -	**Assessment Method:** Based on a matrix of landscape design criteria, student shall be able to demonstrate	05/15/2012 - Only one student did not pass the course and did not participate in all lab activities. **Result:**	05/15/2012 - Given the student success rate, no changes to the

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
demonstrate the ability to evaluate residential landscape designs. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	an understanding of the methods by which landscapes can be judged. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will exhibit a basic understanding of what takes to create successful landscapes.	Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Given the student success rate, no changes to the course structure are planned at this time.	course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90G - LANDSCAPE DESIGN FORUM - SLO 2 - Knowledge - exhibit an understanding of advanced topics in landscape design. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Through attendance at classes involving advanced topics in landscape design, student will exhibit an understanding of current topics and practicum based knowledge. **Assessment Method Type:** Discussion/Participation **Target for Success:** 80% of students will successfully complete the course.		
Department - Environmental Horticulture & Design (HORT) - HORT 90H - LANDSCAPE LIGHTING - SLO 1 - Knowledge - demonstrate practical knowledge of lighting and electrical equipment. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Using a multiple choice test, students will demonstrate a basic knowledge of low voltage lighting. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 70% of students will receive passing grades on the exam.	07/15/2012 - 100% of the students demonstrated a basic knowledge of low voltage lighting **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	10/16/2012 - I achieved my goals but I will continue to look for more study guides.
Department - Environmental Horticulture & Design (HORT) - HORT 90H - LANDSCAPE LIGHTING - SLO 2 - Application of knowledge - compare and contrast different lighting systems. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Demonstrate the selection of appropriate lighting systems in a lab setting **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students completing the class will successfully demonstrate a working	07/15/2012 - 100% of the students were able to demonstrate in a lab the selection of appropriate lighting systems **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	10/16/2012 - By installing an outdoor lab the students will be able to understand the principles of lighting. Appealing to the lighting manufacturers for materials will hasten the installation of this lab.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Course-Level SLO Status: Active	knowledge of landscape lighting systems.		
Department - Environmental Horticulture & Design (HORT) - HORT 90I - LANDSCAPE SUSTAINABILITY PRACTICES - SLO 1 - Application of Knowledge - Demonstrate skills in developing and maintaining landscapes according to sustainable principles. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will build and maintain landscapes using sustainable practices in labs. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will demonstrate competency in the development and maintenance of sustainable landscapes.	07/15/2012 - 98% of the students were able to build and manage landscapes using techniques of sustainability. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students were able to understand the principles of sustainability.	10/16/2012 - The 2% of those students should be able to build landscapes using sustainable methods through additional study.
Department - Environmental Horticulture & Design (HORT) - HORT 90I - LANDSCAPE SUSTAINABILITY PRACTICES - SLO 2 - Application of knowledge - Define approaches to solving landscape and gardening problems by applying ecological principles. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will prepare a report on solving a landscape or gardening problem using ecologically sound principles. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will complete a report on solving landscape or gardening problems using ecologically sound principles.		
Department - Environmental Horticulture & Design (HORT) - HORT 90K - LANDSCAPING WITH EDIBLES - SLO 1 - Knowledge - Identify edible ornamental plants for the landscape. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field edible ornamental identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will pass a field exam on the identification of ornamental edible plants.	10/09/2012 - 100% of students enrolled in the class were able to pass the field exam on the identification of ornamental edible plants. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** Plants and arboretum development for showcasing edible plants.	10/09/2012 - Look at developing resources to meet the need for showcasing edible plants. 10/09/2012 - Look at resources for showcasing edible plants.
Department - Environmental Horticulture &			

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Design (HORT) - HORT 90K - LANDSCAPING WITH EDIBLES - SLO 2 - Application of knowledge - Demonstrate the use of edible plants in built landscapes. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will design a landscape using edible ornamentals. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will complete a landscape design using ornamental edible plants.	10/09/2012 - Students participated in discussions regarding design solutions for different types of ornamental edible landscapes. 100% of the class participated in this activity. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	
Department - Environmental Horticulture & Design (HORT) - HORT 90L - PLANT PROPAGATION: BASIC SKILLS - SLO 1 - Knowledge - Exhibit understanding of the basic techniques used in plant propagation. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete a skills lab demonstrating propagation techniques. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will demonstrate knowledge of propagation techniques.	06/29/2013 - 100% of the students completed the skills labs on propagation techniques. All demonstrated the ability to utilize these skills in plant propagation. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	06/29/2013 - No actions are required at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90L - PLANT PROPAGATION: BASIC SKILLS - SLO 2 - Application of knowledge - Demonstrate ability to utilize various propagation techniques in nursery and greenhouse environments. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will select appropriate propagation technique for various environments in a lab setting. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will be able to properly demonstrate appropriate propagation techniques.		
Department - Environmental Horticulture & Design (HORT) - HORT 90M - PLANT NUTRITION & FERTILIZATION - SLO 1 - Knowledge - Identify nutrient deficiency in plants. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete an objective exam identifying plant nutrient deficiencies. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will pass the part of the exam which identifies plant nutrient deficiencies.	03/29/2012 - 95% of the students passed the portion of the assessment which required identification of plant nutrition deficiencies. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** This SLO should be modified to provide a	03/29/2012 - add more hands on deficiency symptom analysis

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		better measure than the exam. Other methods can be used to measure student success in this area.	
Department - Environmental Horticulture & Design (HORT) - HORT 90M - PLANT NUTRITION & FERTILIZATION - SLO 2 - Application of knowledge - Select fertilizer for appropriate use. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will select correct fertilizer for application in a lab setting. **Assessment Method Type:** Class/Lab Project **Target for Success:** In lab evaluations, students will correctly select a fertilizer application 80% of the time.	03/29/2012 - Students selected the appropriate fertilizer in 96% of the situations presented in sample problems. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** none requested **GE/IL-SLO Reflection:** SLO should be adjusted to identify problem set used to assess students.	03/29/2012 - add more problem solving scenarios to the short course
Department - Environmental Horticulture & Design (HORT) - HORT 90N - PLANT MATERIALS: FALL COLOR - SLO 1 - Knowledge - identify trees by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will be able to correctly identify plants exhibiting outstanding fall color. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will correctly identify plants exhibiting fall color.	01/11/2013 - 96% of students were able to correctly identify the trees and shrubs which exhibit Fall color as discussed in the course. One student failed to complete the class. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	01/11/2013 - No changes are necessary at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90N - PLANT MATERIALS: FALL COLOR - SLO 2 - Application of knowledge - select plants for landscape use based on aesthetic conditions. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete an objective exam requiring selection of trees based on esthetic conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of students will correctly select fall color trees for use in landscape designs.		
Department - Environmental Horticulture &			

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Design (HORT) - HORT 90P - PRUNING: BASIC SKILLS - SLO 1 - Knowledge - List basic terms associated with pruning. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will identify terms on an objective exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** Students will be able to correctly identify 80% of the pruning terms presented in the class.	04/25/2013 - 93% of students were able to correctly identify 80% of pruning terms. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** More developed field labs for practising pruning techniques.	04/25/2013 - Expanded field lab space is needed for demonstrating and practicing pruning techniques.
		04/14/2012 - All but one student was able to correctly identify 80% or more of the pruning terms used in the class on a field test. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** Students are demonstrating the ability to learn pruning terms and no further changes to the course are necessary at this time.	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90P - PRUNING: BASIC SKILLS - SLO 2 - Application of knowledge - Describe wide variety of methods utilized in pruning plants. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will select and implement pruning methods in a practical laboratory. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of the students will correctly select and implement pruning methods in a field lab.	04/25/2013 - All the students who finished this class were able to work with pruning tools in a field lab situation. Only two students demonstrated a lower skill level due to an absence. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Expanded field lab for demonstrating pruning methodolgy.	04/25/2013 - Expanded field lab space is needed for demonstrating and practicing pruning techniques.
		04/14/2012 - 97% of the students in the class were able to select and implement the pruning methods demonstrated in the class. **Result:** Target Met	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		Year This Assessment Occurred: 2011-2012 **Resource Request:** None **GE/IL-SLO Reflection:** Students demonstrated their ability to effectively prune selected plant species.	
Department - Environmental Horticulture & Design (HORT) - HORT 90Q - RESIDENTIAL IRRIGATION SYSTEMS - SLO 1 - Knowledge - demonstrate a basic understanding of irrigation equipment & materials. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student shall create a basic plan illustrating core competencies in irrigation design. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of the students will be able to prepare a basic irrigation plan illustrating core competency in irrigation design.	07/15/2012 - 95% of the students were able to create an irrigation design. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **GE/IL-SLO Reflection:** Students were able to select irrigation components according to plan.	10/16/2012 - Additional materials from the manufacturers should help achieve high scores.
Department - Environmental Horticulture & Design (HORT) - HORT 90Q - RESIDENTIAL IRRIGATION SYSTEMS - SLO 2 - Application of knowledge - demonstrate the ability to install a residential irrigation system. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** In a field lab, student shall correctly install at least one component of a typical residential irrigation system. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will be able to correctly install at least one component of a typical residential irrigation system.	06/29/2013 - 100% of the students were able to install components of an irrigation system and to make sure they were functioning properly. Students also audited existing irrigation systems. One student never showed up for the class but also did not drop. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Irrigation equipment and supplies. **GE/IL-SLO Reflection:** Students understood how the various components inter-relate in an irrigation system	06/29/2013 - No changes are needed at this time. The goal for this class, as well as other irrigation classes, is to secure more equipment and materials for instructional purposes in irrigation installation. 10/16/2012 - Additional materials from the manufacturers should increase scores.
Department - Environmental Horticulture & Design (HORT) - HORT 90R - SEASONAL	**Assessment Method:** Successful completion of one seasonal floral	10/11/2012 - All students completing the class were able to successfully compete the making of	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
FLORAL DESIGN - SLO 1 - Knowledge - master the making of seasonal arrangements such as seasonal centerpieces, fresh and dried wreath making, and evergreen swags. (Created By Department - Environmental Horticulture & Design (HORT)) **Start Date:** 05/08/2012 **End Date:** 05/29/2012 **Course-Level SLO Status:** Active	design per instructor specifications. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully complete a seasonal floral design.	seasonal arrangements. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** Floral materials and containers are expensive for a class such as this and generally costs for students exceed what they can afford. Program supplies are neede to supplement this class.	10/11/2012 - No changes are necessary at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90R - SEASONAL FLORAL DESIGN - SLO 2 - Application of knowledge - create seasonal and holiday decorations. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Successful completion of a "holiday" floral or vegetative arrangement per instructor specifications. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will complete a "holiday" floral or vegetative arrangement per instructor specifications.	10/11/2012 - All of the students complete a spring season "holiday" floral arrangement per instructor specifications. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **Resource Request:** ts exceed what they can afford. Program supplies are neede to supplement this class.	10/11/2012 - No changes to the course are necessary at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90S - SUSTAINABLE INTEGRATED PEST MANAGEMENT (IMP) - SLO 1 - Knowledge - Understand the risks of pesticides. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will identify pesticide risks through a written report. **Assessment Method Type:** Essay/Journal **Target for Success:** 80% of students will identify pesticide risks through a written report.	10/16/2012 - By using known pesticide use charts, all of the students were able to assess risks on a written lab report. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Slides on pesticides **GE/IL-SLO Reflection:** A higher achievement ratio can be achieved with slides and powerpoint presentations.	10/16/2012 - A higher level of chart is needed to provide a clear picture of the risks. 10/16/2012 - I will research the industry for more materials to achieve higher scores. 10/16/2012 - No changes are required at the present time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		08/20/2012 - 85% of the students were able to understand the risks of pesticides. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** The majority of students understood this principle.	10/16/2012 - A speaker from the industry will be called in to help clarify the risks.
Department - Environmental Horticulture & Design (HORT) - HORT 90S - SUSTAINABLE INTEGRATED PEST MANAGEMENT (IMP) - SLO 2 - Application of knowledge - Integrate pest management controls. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will write an integrated pest management plan. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will write an integrated pest management plan.	08/20/2012 - 90% of the students were able to write an integrated pest management plan. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students understand this principle and were able to write a plan.	10/16/2012 - More examples from the County Ag department will be obtained to increase student understanding.
Department - Environmental Horticulture & Design (HORT) - HORT 90U - LANDSCAPE DESIGN: PERSPECTIVE SKETCHING - SLO 1 - Application of Knowledge - Select appropriate perspective technique. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Select the correct persepective technique to sketch a variety of different views of a site. **Assessment Method Type:** Case Study/Analysis **Target for Success:** Students should be able to select the appropriate method 90% of the time.	12/15/2011 - Students were able to select the appropriate method 100% of the time. **Result:** Target Met **Year This Assessment Occurred:** 2010-2011 **Resource Request:** None **GE/IL-SLO Reflection:** SLO is reliable and valid	12/15/2011 - Methods of instruction were effective for this SLO. No changes anticipated.
Department - Environmental Horticulture & Design (HORT) - HORT 90U - LANDSCAPE DESIGN: PERSPECTIVE SKETCHING - SLO 2 - Application of knowledge - Render landscape elements in perspective. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Prepare one and two point perspectives from given drawings. **Assessment Method Type:** Class/Lab Project **Target for Success:** Students should be able to complete	12/15/2011 - Students were able to construct perpspective drawings with fewer than 5 errors in approximately 70% of the exercises. **Result:** Target Not Met **Year This Assessment Occurred:** 2010-2011	12/15/2011 - Additional teaching methods must be added to improve the students understanding of construction of perspectives. Most errors occured when locating vanishing points and choosing

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Course-Level SLO Status: Active	drawings with less than 5 errors in 75% of the drawings.	**Resource Request:** None **GE/IL-SLO Reflection:** SLO is reliable and valid	directions for lines.
Department - Environmental Horticulture & Design (HORT) - HORT 90V - SUSTAINABLE ORGANIC GARDENING - SLO 1 - Knowledge - Define principles of organic gardening. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will complete a design project that requires use of current organic gardening principles. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully complete an design project that requires use of current organic gardening principles.	07/05/2013 - 100% of the students in the class were able to successfully complete a design project employing current organic gardening principles. One student received an incomplete in the class but is also expected to pass the class and was involved in the design project as well. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	07/05/2013 - An onsite organic garden could be developed to assist in the instructional elements of the lab component of the class. 06/05/2012 - No changes are needed at this time. 29 of the 30 students in the course completed their required project.
Department - Environmental Horticulture & Design (HORT) - HORT 90V - SUSTAINABLE ORGANIC GARDENING - SLO 2 - Application of knowledge - Analyze gardens to improve sustainability. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will prepare a written and graphic evaluation of a garden that identifies areas in which sustainability can be improved. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully prepare a written and graphic evaluation of a garden that identifies areas in which sustainability can be improved.		
Department - Environmental Horticulture & Design (HORT) - HORT 90X - XERISCAPING: CREATING WATER-CONSERVING LANDSCAPES - SLO 1 - Knowledge - Describe characteristics associated with drought tolerant plants. (Created By Department - Environmental	**Assessment Method:** Student will create a list of drought tolerant plant characteristics. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will create a list of drought		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	tolerant plant characteristics.		
Department - Environmental Horticulture & Design (HORT) - HORT 90X - XERISCAPING: CREATING WATER-CONSERVING LANDSCAPES - SLO 2 - Application of knowledge - Discuss methods of auditing water use in gardens. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Student will perform a water audit for a garden. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of students will successfully perform a water audit for a garden.	07/12/2013 - 100% of the students were able to perform a successful water audit. The class also looked at two field sites where water catchment and other water conservation measures were being employed in the landscape designs. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	07/12/2013 - The Foothill HORT facilities have several water conservation demonstration areas already in place which is a great asset for a class such as this. More water conservation features / gardens are planned in the future.
		06/29/2013 - 100% of students were able to discuss and apply the process of water auditing in a lab setting. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** More irrigation equipment and supplies are necessary to teach this course. Labs need to have testing equipment, tools, and irrigation supplies to suceessfully instruct students in water auditing techniques.	06/29/2013 - Since everyone successfully completed the water auditing portion of the class, no action is necessary. However, resources for instruction are needed in the form of equipment and supplies to adequately meet the instructional requirements of the class.
Department - Environmental Horticulture & Design (HORT) - HORT 90Y - CACTI & SUCCULENTS - SLO 1 - Knowledge - Identify cacti and succulents presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field cacti and succulents identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will pass with a score of 80% or higher.	01/11/2013 - 95% of the students passed the field exam with a score of 80% or more. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013	01/11/2013 - No action is required at this time. The Stanford Cactus Garden has worked well as a site of the lab component of this class. 05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Department - Environmental Horticulture & Design (HORT) - HORT 90Y - CACTI & SUCCULENTS - SLO 2 - Application of Knowledge - Compare and contrast cacti and succulent features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete objective exam requiring selection of cacti and succulents for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will complete exams with a score of 80% or higher.	01/15/2012 - 94% of the students complete the objective exam with a score of 80% or greater. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012	05/15/2012 - Given the student success rate, no changes to the course structure are planned at this time.
Department - Environmental Horticulture & Design (HORT) - HORT 90Z - ORNAMENTAL GRASSES - SLO 1 - Knowledge - Identify ornamental grasses presented by botanical and common names. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete field ornamental grasses by identification exam. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will pass with a score of 80% or higher.	07/15/2012 - 95% of the students were able to identify ornamental grasses in the field. **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students understood the various methods of identifying differing grasses.	10/16/2012 - A better slide set should increase competency in this area.
Department - Environmental Horticulture & Design (HORT) - HORT 90Z - ORNAMENTAL GRASSES - SLO 2 - Application of Knowledge - Compare and contrast ornamental grass features and cultural need. (Created By Department - Environmental Horticulture & Design (HORT)) **Course-Level SLO Status:** Active	**Assessment Method:** Students will complete an objective exam requiring selection of ornamental grasses for design situations based on required features and cultural conditions. **Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 90% of the students will achieve a score of 80% or higher on the exam.	07/15/2012 - 95% of the students were able to select ornamental grasses for varying cultural and design situations **Result:** Target Met **Year This Assessment Occurred:** 2011-2012 **GE/IL-SLO Reflection:** Students understood the cultural and design parameters and were able to match the types of grasses that would fit these situations.	10/16/2012 - More design related material will help achieve a higher goal.
Department - Environmental Horticulture & Design (HORT) - HORT 91A - COMPOSTING THEORY & TECHNIQUES -	**Assessment Method:** Student will be asked to identify in writing the various composting methods.	10/23/2013 - All of the students completing the class were able to correctly identify and discuss 5	

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Identify composting methods - Student will be able to identify different methods of composting (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Academic Year **Start Date:** 12/07/2012 **End Date:** 01/31/2013 **Course-Level SLO Status:** Active	**Assessment Method Type:** Exam - Course Test/Quiz **Target for Success:** 80% of the students will be able to write down the names of at least 5 composting methods.	methods for composting. There were three people who never showed up for the class and did not drop the class who received failing grades. I did not feel that these students should be considered part of the measure of success for this class since they did not participate. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Continued expansion of the composting facility at the college. This may include the need for equipment such as chipper/shredders.	10/23/2013 - Beyond continuing to develop the composting educational display area, no other actions are necessary at this time. The course content was appropriate for the length and scope of the course.
Department - Environmental Horticulture & Design (HORT) - HORT 91A - COMPOSTING THEORY & TECHNIQUES - Build compost pile - Student will be able to construct a hot compost pile. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Academic Year **Start Date:** 12/07/2012 **End Date:** 01/31/2013 **Course-Level SLO Status:** Active	**Assessment Method:** Student will properly construct a layered hot compost pile. **Assessment Method Type:** Class/Lab Project **Target for Success:** 80% of the students will be able to properly construct a complete layered hot compost pile.		
Department - Environmental Horticulture & Design (HORT) - HORT 91B - SKETCHUP FOR LANDSCAPE DESIGNERS - Prepare landscape drawings. - Student will be able to prepare three dimensional landscape drawings using the sketchup program. (Created By Department - Environmental Horticulture & Design (HORT))	**Assessment Method:** Student will use a supplied basemap to prepare a three dimensional drawing showing landscape features. **Assessment Method Type:** Presentation/Performance **Target for Success:** 80% of the students will be able to successfully create the drawing.		

Course-Level SLOs	Means of Assessment & Targets for Success / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Assessment Cycles: End of Academic Year **Start Date:** 12/07/2012 **End Date:** 01/31/2013 **Course-Level SLO Status:** Active			
Department - Environmental Horticulture & Design (HORT) - HORT 91B - SKETCHUP FOR LANDSCAPE DESIGNERS - Render sketchup drawings. - Student will be able to render a prepared drawing using the textures, colors and attributes available in the sketchup program. (Created By Department - Environmental Horticulture & Design (HORT)) **Assessment Cycles:** End of Academic Year **Start Date:** 12/07/2012 **End Date:** 01/31/2013 **Course-Level SLO Status:** Active	**Assessment Method:** Student will render a supplied drawing using a minimum of 5 different attributes available in the sketchup program. **Assessment Method Type:** Presentation/Performance **Target for Success:** 80% of the students will be able to properly render the drawing using the minimum number of attributes.		

Unit Assessment Report - Four Column

Foothill College

Program (BHS-HORT) - Environmental Horticulture and Design AS/CA

PL-SLOs	Means of Assessment & Target / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
Program (BHS-HORT) - Environmental Horticulture and Design AS/CA - 1 - Students will demonstrate skills necessary to design residential landscapes. **SLO Status:** Active	**Assessment Method:** For students planning to practice landscape design as a career, as well as for those entering other Green Industry sectors, we have devised a class project which gauges the student's ability to create a landscape design. In our HORT 60B Landscape Design: Theory class, students work on a typical landscape design project with a variety of programmatic requirements. **Assessment Method Type:** Class/Lab Project **Target:** A successful student would be able to demonstrate the knowledge and skill sets of landscape design principles and practices. Each student will prepare a rendered landscape plan which meets the programmatic requirements of the project.	11/04/2013 - For this target year, 97% of the students in HORT 60B were able to successfully complete a rendered landscape plan which meet the programmatic requirements specified for the course. Only one student was unable to complete the last half of the course (due to family related issues), and received a non-passing grade. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** Updated classroom projections systems are needed for presentations and demonstrations. The current visualizer system is beginning to show signs of failing.	11/04/2013 - Request replacement of Visualizer and Projectors in the classroom.
Program (BHS-HORT) - Environmental Horticulture and Design AS/CA - 2 - Students will be able to identify plant material commonly used in landscape projects by Green Industry professionals. **SLO Status:** Active	**Assessment Method:** Through field tests, students will be able to correctly identify a variety of trees and shrubs. For this assessment, we will utilize both our fall and spring plant identification courses (HORT 21 & HORT 22: Plant Material I & II). **Assessment Method Type:** Exam - Course Test/Quiz **Target:** On their final plant identification exam, students will demonstrate an accurate level of plant knowledge for at least 80% of plant features reviewed.	11/04/2013 - In both of our required plant material classes (Hort 21, Trees and Hort 22, Shrubs) over 93% of our students were able to identify plant material at a rate higher than our goals. This rate is excellent but we are encumbered by having to travel long distances to find plant material for the class, and the plant material located on campus is often in poor condition. **Result:** Target Met **Year This Assessment Occurred:** 2012-2013 **Resource Request:** * Lath House expansion to accomodate instructional plant production and plant identification. Full time lab tech / facility	11/04/2013 - To improve the success rate of students in this assessment, more plant material needs to be provided locally rather than at off-campus locations. This would require additional space in the current lath house to keep specimen plant material and the development of an arboretum, either within the horticulture facility or via campus plantings, that allow more efficient presentation of plant material that are included on our plant lists. Maintenance of that plant material and plant storage facilities will require continual updating of

PL-SLOs	Means of Assessment & Target / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up
		manager. Equipment. **GE/IL-SLO Reflection:** The SLO is adequate for the current state of the class, with the possibility of adjusting upward the goals and the percentages of students reaching the goal if action plan can be successfully implemented.	equipment and the employment of a lab assistant to guide and implement maintenance plans. It is also important that classroom technology, such as internet, presentation equipment and plant material software be routinely updated to keep pace with the changing developments in horticulture and student learning. 10/10/2012 - To improve the success rate of students in this assessment, more plant material needs to be provided locally rather than at off-campus locations. This would require additional space in the current lath house to keep specimen plant material and the development of an arboretum, either within the horticulture facility or via campus plantings, that allow more efficient presentation of plant material that are included on our plant lists. Maintenance of that plant material and plant storage facilities will require continual updating of equipment and the employment of a lab assistant to guide and implement maintenance plans. It is also important that classroom technology, such as internet, presentation equipment and plant material software be routinely updated to keep pace with the changing developments in horticulture and student learning.

PL-SLOs	Means of Assessment & Target / Tasks	Assessment Findings/Reflections	Action Plan & Follow-Up