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University of Hawaii Community Colleges Annual Report of Program Data Analysis Preview

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PREVIEW

College: Kauai Community College Program: Carpentry Technology

The last comprehensive review for this program can be viewed at:

<http://www.hawaii.edu/offices/cc/arpd/instructional.php?action=quantitativeindicators&college=KAU&year=2015&program=201>

Program Description

The Carpentry Technology program provides the basic entry-level skills in the construction of buildings. Skilled carpenters are required in areas of new building construction, repair, and alteration of buildings. The program provides an introduction into the sustainable and green construction methods and materials, while offering instruction in the states building codes for energy efficiency. This program also enhances the graduate's entry into the carpenters apprenticeship program.

Part I. Quantitative Indicators

Overall Program Health: **Cautionary**

Majors Included: CARP Program CIP: 46.0201

Demand Indicators		Program Year			Demand Health Call
		12-13	13-14	14-15	
1	New & Replacement Positions (State)	375	250	248	Healthy
2	*New & Replacement Positions (County Prorated)	24	14	13	
3	*Number of Majors	11	10	10	
3a	Number of Majors Native Hawaiian	2	5	3	
3b	Fall Full-Time	18%	45%	50%	
3c	Fall Part-Time	82%	55%	50%	
3d	Fall Part-Time who are Full-Time in System	0%	0%	0%	
3e	Spring Full-Time	40%	33%	25%	
3f	Spring Part-Time	60%	67%	75%	
3g	Spring Part-Time who are Full-Time in System	0%	0%	0%	
4	SSH Program Majors in Program Classes	100	89	166	
5	SSH Non-Majors in Program Classes	97	51	30	

6	SSH in All Program Classes	197	140	196
7	FTE Enrollment in Program Classes	7	5	7
8	Total Number of Classes Taught	6	5	6

Efficiency Indicators		Program Year			Efficiency Health Call
		12-13	13-14	14-15	
9	Average Class Size	8	6.8	7	Cautionary
10	*Fill Rate	66.6%	56.6%	58.3%	
11	FTE BOR Appointed Faculty	1	0	1	
12	*Majors to FTE BOR Appointed Faculty	10.5	0	10	
13	Majors to Analytic FTE Faculty	9.8	10.8	9.6	
13a	Analytic FTE Faculty	1.1	0.9	1.0	
14	Overall Program Budget Allocation	Not Reported	\$27,482	\$46,642	
14a	General Funded Budget Allocation	Not Reported	\$25,813	\$28,969	
14b	Special/Federal Budget Allocation	Not Reported	\$0	\$0	
14c	Tuition and Fees	Not Reported	\$1,669	\$17,673	
15	Cost per SSH	Not Reported	\$196	\$238	
16	Number of Low-Enrolled (<10) Classes	3	3	6	

*Data element used in health call calculation

Last Updated: October 7, 2015

Effectiveness Indicators		Program Year			Effectiveness Health Call
		12-13	13-14	14-15	
17	Successful Completion (Equivalent C or Higher)	88%	88%	79%	Cautionary
18	Withdrawals (Grade = W)	2	2	0	
19	*Persistence Fall to Spring	72.7%	72.7%	66.6%	
19a	Persistence Fall to Fall	36.3%	27.2%	50%	
20	*Unduplicated Degrees/Certificates Awarded	0	0	0	
20a	Degrees Awarded	0	0	0	
20b	Certificates of Achievement Awarded	0	0	0	
20c	Advanced Professional Certificates Awarded	0	0	0	
20d	Other Certificates Awarded	0	0	0	
21	External Licensing Exams Passed	Not Reported	Not Reported	N/A	
22	Transfers to UH 4-yr	0	0	0	
22a	Transfers with credential from program	0	0	0	
22b	Transfers without credential from program	0	0	0	

Distance Education: Completely On-line Classes		Program Year			
		12-13	13-14	14-15	
23	Number of Distance Education Classes Taught	0	0	0	
24	Enrollments Distance Education Classes	N/A	N/A	N/A	
25	Fill Rate	N/A	N/A	N/A	
26	Successful Completion (Equivalent C or Higher)	N/A	N/A	N/A	
27	Withdrawals (Grade = W)	N/A	N/A	N/A	
28	Persistence (Fall to Spring Not Limited to Distance Education)	N/A	N/A	N/A	

Perkins IV Core Indicators 2013-2014		Goal	Actual	Met	

29	1P1 Technical Skills Attainment	91.00	80.00	Not Met
30	2P1 Completion	47.00	0.00	Not Met
31	3P1 Student Retention or Transfer	75.21	28.57	Not Met
32	4P1 Student Placement	68.92	0.00	Not Met
33	5P1 Nontraditional Participation	17.50	36.36	Met
34	5P2 Nontraditional Completion	16.00	0.00	Not Met

Performance Funding		Program Year		
		12-13	13-14	14-15
35	Number of Degrees and Certificates	0	0	0
36	Number of Degrees and Certificates Native Hawaiian	0	0	0
37	Number of Degrees and Certificates STEM	Not STEM	Not STEM	Not STEM
38	Number of Pell Recipients	6	7	5
39	Number of Transfers to UH 4-yr	0	0	0

*Data element used in health call calculation

Last Updated: October 7, 2015

[Glossary](#) | [Health Call Scoring Rubric](#)

Part II. Analysis of the Program

DEMAND: According to the Program Data for Carpentry Technology we have a Healthy rating in "Demand." The data shows that the county demand for workers has more than the number of current carpentry majors at Kauai Community College. Although we are rated as As the Carpenters Union and others areas have shown, the data is not in line with the current industry demands. Currently the unions are gearing up to put all their union members back to work and are struggling to find as many apprentices as they can on Kauai.

EFFICIENCY: The efficiency indicator is Cautionary this year. This indicator is based on fill rate and major to FTE faculty. One full time faculty instructor and program coordinator was hired for the Carpentry and Facilities Engineering Programs in January 2014. Program concerns are being worked on. To help guide the program an advisory board was established in Spring 2015. Efforts are being made to improve student fill rates.

EFFECTIVENESS: The program is struggling to recruit and retain students. According to the "Effectiveness Indicators" student persistence has fallen from Fall to Spring by 6%, but has nearly doubled from Fall to Fall going up from 27.2% in 2013-14 to 50% in 2014-15. The Carpentry program was dormant until 2012. Between 2012 and 2014 there was a transition of a number of different instructors. This inconsistency of instructors and lack of focus made it difficult to recruit and retain students. A new faculty instructor and program coordinator was hired in January 2014. With the help of the program coordinator, promotion and refocusing of the Carpentry Program has been set in motion. It is a major time and physical student commitment to make it in the Carpentry Technology Program. The Carpentry Program worked on and continues to build partnerships to provide students with challenging and engaging service learning projects that align with their curriculum.

PERKINS: According to the data, we have met the Perkins IV Core Indicators in the area of Nontraditional Participation. Reviewing the current the Perkins IV Core Indicator data show some inaccuracies. Student retention should be at least at 50% or higher. One student has completed his full time Carpentry Courses, and is currently working on the remaining core requirements to graduate. Another student completed taking all his Carpentry courses as well, but has chosen not to continue with the program. The true student retention calculation should be three continuing students out of the four that we enrolled full time in 2014-15. This more accurate depiction would give us a Student Retention Rating of 75%. Along with a focus on Student Retention and Completion, a major focus is being placed on student recruitment.

It should also be noted that some students have been employed in their field by industry contacts setup by the Carpentry Advisory Board and are currently working in the industry and continue to maintain their fulltime status as Carpentry students.

Part III. Action Plan

Goal Alignment UH System Goals, Kaua'i Community College Goals, and Strategic Goals	Program Goals
H Goal 1: Educational Effectiveness and Student Success KCC Goal 1: Access &	To Provide the necessary training and

Goal Alignment UH System Goals, Kaua'i Community College Goals, and Strategic Goals	Program Goals
<p>KCC Goal 2: Learning and Teaching</p> <p>Strategic Goals: Student Recruitment, Retention and Success of All Students and Particularly</p> <ul style="list-style-type: none"> • Native Hawaiian students • Increase success of Remedial/Developmental Students, focusing particularly on reading • Non-traditional Students in Career and Technical Programs • Increased Completion of Degrees, Certificates, and Licensure • Increase outreach to k-12 to improve college preparation and to ensure that students are aware of specific opportunities that KCC provides, recognizing that outreach must not be limited to high schools <p>Relevant Curriculum Development</p> <ul style="list-style-type: none"> • Sustainability/Green Jobs/Effectiveness and Sustainability of the KCC environment • Health and/or Safety Issues • DOE-KCC English Alignment • Improve the quality of distance education by addressing student readiness, the course development process, diversity of offerings, assessment and delivery methods (mobile learning) • Increase overall retention and persistence to graduation or transfer (identify goals and track by disaggregated groups), with an additional focus on STEM degrees and certificates • Improve the facilitation of integrative/critical thinking in courses <p>Completion of</p> <ul style="list-style-type: none"> ◦ Course and Program Student Learning Outcomes (SLOs) ◦ Course Action Forms (CAFs) <p>Assessment Activities and Analysis</p>	<p>education in the areas of study that are important for positions in both the trades as well as the construction industry.</p> <p>Our Construction Academy program is actively involved in bringing to the high schools as well as the middle schools the assistance to the DOE in preparing and exposing the students to the career paths of building trades and building design.</p> <p>The Carpentry program has imbedded both sustainable and green building methods and techniques by supporting the professional development of our instructors along with the introduction of new technologies in renewable energy and energy efficiency.</p> <p>In assessment of our curriculum, endorsement from industry is an extremely effective indicator. Feedback from our Carpentry Advisory Board, which began in Spring 2015, has helped us to examine where we are now and where we want to be in the future.</p> <p>Making courses more accessible to students via flexible course scheduling and offering students multiple exit strategies for certificate and degree completion are being proposed.</p>
<p>UH Goal 2: A Learning, Research and Service Network</p> <p>KCC Goal 3: Workforce Development & KCC Goal 5: Community Development</p> <p>Strategic Goals: Increased Job Placement and/or Performance through</p> <ul style="list-style-type: none"> • Revised or New Curriculum • Better Coordination with Business and Industry 	<p>Working with our advisory board, we look to develop new partnerships with the construction industry and unions to help promote and validate our program.</p>
<p>UH Goal 3: A Model Local, Regional and Global University</p> <p>KCC Goal 6 Diversity</p> <p>Strategic Goals:</p>	<p>Providing instruction that meets both today's needs as well as those of tomorrow by keeping up and relevant to the trends of the industry.</p>

Goal Alignment UH System Goals, Kaua'i Community College Goals, and Strategic Goals	Program Goals
<ul style="list-style-type: none"> • Fostering Global Understanding and Intercultural Competence • Increased Enrollment and Success of International Students 	
<p>UH Goal 4: Investment in Faculty, Staff, Students and Their Environment KCC Goal 4: Personal Development</p> <p>Strategic Goals:</p> <ul style="list-style-type: none"> • Professional Development Directed to Any of the Above Goals • Enriching Student Experience, Particularly Directed to Any of the Above Goals • Increasing the Efficiency, Effectiveness and Sustainability of the KCC Environment 	<p>Professional Development for instructors is needed in areas of building energy efficiency, and application of the new energy codes in both designing and building a home or other commercial buildings.</p> <p>Having the instructors certified as professionals by the industry they are helping is extremely important.</p> <p>Third part accreditation is currently being explored.</p>
<p>UH Goal 5: Resources and Stewardship KCC Goal 5 Community Development</p> <p>Strategic Goals:</p> <ul style="list-style-type: none"> • Reduce Deferred Maintenance • Address Health and Safety Issues • Promote Sustainability 	<p>Our program is focused on sustainability, green practices, and efficiency.</p> <p>Many of our courses study and address campus needs through service learning on campus.</p> <p>Development of a Natural Building course is currently being explored.</p>

ACTION PLAN

The Carpentry program's educational effectiveness is maintained through the instructors experience and introduction of the new methods and technologies in their respective fields. Along with providing the ability for students to be exposed to the new materials being developed and the ability to gain insight into the understanding and exposure of how to utilize the new technologies being offered, all the instructors in the program are working professionals or have retired from their respective field. This combination provides the students with an industry-based experience that combines the classroom learning, hands-on practical application and problem solving techniques that are industry relevant.

The program's goals with respect to employed students is to offer a path for advancement within their career path relating to carpentry, by offering courses that will increase their worth to an employer. In addition, the program offers individual paths for those that desire additional training in specific disciplines found in facilities engineering, electrical installation, construction technology, and other areas of study offered at Kauai Community College.

This will be accomplished through building of relationships with the industries that are involved with the program's course content. The economic development of the county is focused on six cluster areas of development. All of these areas have a direct need for both construction projects and the maintaining of these facilities. The program offers education and training that will assist these Kauai industries to involve Kauai companies to help with the growth of these industries.

In the areas of new and emerging technologies, both Green and Sustainable Construction and Alternative Energy, the projected growth indicates a need for trained individuals.

Action Plan(s)

Program Goal & Campus Strategic Priority or Goal	Action Item	Resources Needed	Person(s) Responsible	Timeline	Indicator of Improvement	PLO impacted	Status
Campus goal #1 Student recruitment and retention.	Provide a continuing learning environment for the students	More room, to maintain this model as we expand our offerings in additional courses	Justin Carvalho, all the part time instructors of the Carpentry program	Ongoing	Maintain and improve on current statistics.	The objective of the program is being attained through alignment with industry standards and input from our industry partners.	In the future our ability to continue may be limited due to space requirements and the needs of other programs needing to utilize the same space.
Continue to develop and maintain CARP Advisory Board Participation	Build CARP Advisory Board comprised of industry experts and stakeholders.	Time to meet and collaborate	Justin Carvalho	Ongoing	Meet at least once per year. Add additional industry and hotel affiliated members.	All PLO's will be updated and enhanced with the wisdom of the advisory board.	Ongoing.

Part IV. Resource Implications

We are currently assessing our current program and individual course needs. Many of our courses utilize consumable material to teach the course. These materials add up very quickly. So far we have been very successful in partnering with campus initiatives to provide the materials and learning experiences for each course. To address these needs in the future we will need to secure a community partner or secure grant money to cover these expenses.

To further advance our program, specific content area trainers (hands-on modules and computer simulation software) could be identified and purchased to help develop the program and students' understanding of industry standards.

Program Student Learning Outcomes

For the 2014-2015 program year, some or all of the following P-SLOs were reviewed by the program:

Assessed this year?	Program Student Learning Outcomes	
1 <input type="checkbox"/> No	1. Read and understand blueprints sufficiently to use them to plan a project.	
2 <input type="checkbox"/> No	2. Select materials properly for a given project.	

Assessed this year?	Program Student Learning Outcomes	
3	<input type="radio"/> No	3. Maintain and care for the tools required in the carpentry industry.
4	<input type="radio"/> No	4. Know and utilize Occupational Safety and Health Administration (OSHA) and State safety regulations to minimize risk and protect self and others.
5	<input type="radio"/> No	5. Communicate successfully orally and in writing using computer technology.
6	<input type="radio"/> No	6. Understand and demonstrate the craftsmanship standards of dependability, punctuality, and quality.

A) Evidence of Industry Validation

No content.

B) Expected Level Achievement

No content.

C) Courses Assessed

No content.

D) Assessment Strategy/Instrument

No content.

E) Results of Program Assessment

No content.

F) Other Comments

No content.

G) Next Steps

No content.

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