



2020

ANNUAL REVIEW OF PROGRAM DATA

Carpentry Technology



UNIVERSITY of HAWAII®
KAUA'I
COMMUNITY COLLEGE

1. Program or Unit 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 state's building codes for energy efficiency. This program also enhances the graduate's entry into the carpenters apprenticeship program.

The Carpentry Technology program directly aligns with the colleges mission statement of inspiring, engaging, and empowering learners and educators. Our students enter the program with little to no knowledge of carpentry and leave with a good breadth of knowledge in all areas of the building construction trade. Our students learn in and out of the classroom and we pride ourselves in providing exceptional hand-on training project based learning, backed up with the math, science, and English skills needed to thrive in the building construction trade.

Part I. Program Description

Date of Last Comprehensive Review	10/31/2017
Date Website Last Reviewed/Updated	8/16/2019
Target Student Population	Current Kaua'i DOE High School Seniors and 20 to 40 year olds looking to change occupations to learn a construction trade. Military students looking to utilize their GI Bill.
External Factor(s) that Affected the Program or Unit	Carpentry Union, Construction Academy at DOE, Alu Like program "Kai kai a' o' Program", and internships with various contractors on island.

2. Analysis of the Program/Unit

For the *Second Year In A ROW* in the history of a consolidating Building Construction Technology the Carpentry Program has an overall health of **HEALTHY!!!!**

Demand Indicators

During the last year local Union and non-union contractors have been hiring students for work on residential and small commercial projects through the county. Recruiting at the DOE is difficult at the moment due to the current COVID-19 pandemic. However, one of my current students was a junior in high school three years ago when Jim and I went to the DOE to speak to the Construction Academy classes. The State and County "New & Replaced Positions" are down slightly and could be an indicator of our local Government and contractors managing their workforce as they deal with a project budget shortfall. The data of the private sector hires are not available, but through my contact in the industry, I know there is a demand there. The private sector is projecting an improving trend in projects.

During the last year, the number of majors has increased, from 12 up to 13. The data also shows the number of full-time students almost doubled from 46% to 85% while the numbers of part-time students dropped substantially from 54% to 15%. This is due to the fact that more students are going for an AAS Degree instead of a CA. The number of SSH Program Majors in Program Classes have been up and increased from 190 to 227. 2019 Kaua'i Community College ARPD Program: Carpentry Technology reported an increase from 7 to 9 FTE Enrollment in Program Classes.

Efficiency Indicators

The Average Class size for the CARP Program has increased from 8 to 12. The Fill Rate increased from 75% to 97.9%. FTE BOR Appointed faculty remains at one, and Majors to Analytic FTE Faculty has increased by one (1) to 13 from 12. The number of Low-Enrolled classes is zero from 5. This is the first time in three years that we have no Low Enrolled classes.

Effectiveness Indicators

Successful Completion Rate has increased from 74% to 81%. The majority of these students have either transferred or have taken jobs locally. Withdrawals are down to zero from four. My Persistence fall to spring also down from 92% to 85%, and the Persistence fall to fall is down as well from 44% to 38%. The stay at home order issued by the government in their attempt to "Flatten the Covid-19 curve" played a huge role in these numbers being down. The Unduplicated Degree/Certificates Awarded and Degree Awarded rose, and the Certificates of Achievement Awarded is zero. It should be 2 or 3, but I think because "Commence" was cancelled one of my graduates didn't file his papers, and I know of another student that received his CA and is back this semester working on his AAS Degree.

Distance Education

(Completely On-line Classes) The CARP program does not offer Distance Learning at the current time.

Perkins Core Indicators

The CARP Program did not meet the Perkins Core Indicators for Technical Skills Attainment Completion, Student Retention/Transfer and Student Placement goals were not met. It is difficult to ascertain why the other six core indicators were not met as the data provided is incomplete. Nontraditional Participation and Completion has been a priority in the CARP Program. The one female in the class has a hard time completing her generals and has accepted tutoring to help graduate as expected. We have had our new Trades Tracking Coordinator working with her to make sure she stays on track to graduate. The instructor contacted all students who completed the CARP courses and two students are expected to complete this semester. Five are expected to complete after spring 2021 with those students currently enrolled to complete electives or non-carpentry required classes.

Performance Indicators

I am not sure why the Number of Degrees and Certificates don't reflect at least the two students, I know of. One receives a CA and AAS and the other received a CA and is currently working on his AAS degree.

The last CPR (Comprehensive Program Review) was in 2017 and was reviewed by the college cabinet.

<https://uhcc.hawaii.edu/varpd/index.php?y=2020&c=KAU&t=CTE&p=2180>

College: Kaua'i Community College
Program: Carpentry Technology
 Status: Report Complete
Program Quantitative Indicators

Overall Program Health: Healthy

Carpentry Technology

CIP Code = 46.0201

47-2031 - Carpenters47-1011 - First-Line Supervisors of Construction Trades and Extraction Workers47-3012 - Helpers--Carpenters

#	Demand Indicators	2017 - 18	2018 - 19	2019 - 20	Demand Health
1.	New & Replacement Positions (State)	1254	1237	1231	Healthy
2.*	New & Replacement Positions (County Prorated)	107	106	102	
3.	Number of Majors	11	12	13	
3a.	Number of Majors Native Hawaiian	2	4	3	
3b.	Fall Full-Time	100%	46%	85%	
3c.	Fall Part-Time	0%	54%	15%	
3d.	Fall Part-Time who are Full-Time in System	0%	0%	0%	
3e.	Spring Full-Time	82%	55%	23%	
3f.	Spring Part-Time	18%	45%	77%	
3g.	Spring Part-Time who are Full-Time in System	0%	0%	0%	
4.	SSH Program Majors in Program Classes	189	190	227	
5.	SSH Non-Majors in Program Classes	24	12	35	
6.	SSH in All Program Classes	213	202	262	
7.	FTE Enrollment in Program Classes	7	7	9	
8.	Total Number of Classes Taught	5	5	4	

NOTE: New & Replacement jobs updated ([View Methodology](#)).

#	Efficiency Indicators	2017 - 18	2018 - 19	2019 - 20	Efficiency Health
9.	Average Class Size	8	8	12	Healthy
10.*	Fill Rate	68.3%	75%	97.9%	
11.	FTE BOR Appointed Faculty	1	1	1	
12.*	Majors to FTE BOR Appointed Faculty	11	12	13	
13.	Majors to Analytic FTE Faculty	11	12	13	

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13a.	Analytic FTE Faculty	1	1	1	
14.	Overall Program Expenditures	\$0	\$0	\$0	
14a.	General Funded Budget Allocation				
14b.	Special/Federal Budget Allocation				
14c.	Tuition and Fees				
15.	Cost per SSH				
16.	Number of Low-Enrolled (<10) Classes	4	5	0	
#	Effectiveness Indicators	2017 - 18	2018 - 19	2019 - 20	Effectiveness Health
17.	Successful Completion (Equivalent C or Higher)	85%	74%	81%	Cautionary
18.	Withdrawals (Grade = W)	0	4	0	
19.*	Persistence Fall to Spring	100%	92%	85%	
19a.	Persistence Fall to Fall	70%	44%	38%	
20.*	Unduplicated Degrees/Certificates Awarded	2	5	0	
20a.	Degrees Awarded	0	4	0	
20b.	Certificates of Achievement Awarded	2	3	0	
20c.	Advanced Professional Certificates Awarded	0	0	0	
20d.	Other Certificates Awarded	0	0	0	
21.	External Licensing Exams Passed ¹				
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	

¹ Campus to include in program analysis if applicable.

#	Distance Indicators	2017 - 18	2018 - 19	2019 - 20	
23.	Number of Distance Education Classes Taught	0	0	0	
24.	Enrollments Distance Education Classes	0	0	0	
25.	Fill Rate	0%	0%	0%	
26.	Successful Completion (Equivalent C or Higher)	0%	0%	0%	
27.	Withdrawals (Grade = W)	0	0	0	
28.	Persistence (Fall to Spring Not Limited to Distance Education)	0%	0%	0%	
#	Perkins Indicators	Goal	Actual	Met	
29.	1P1 Technical Skills Attainment	94.75	85.71	Not Met	
30.	2P1 Completion	61	71.43	Met	
31.	3P1 Student Retention or Transfer	86	60	Not Met	
32.	4P1 Student Placement	66.75	50	Not Met	
33.	5P1 Nontraditional Participation	23.75	8.33	Not Met	
34.	5P2 Nontraditional Completion	23.25	0	Not Met	

#	Performance Indicators	2017 - 18	2018 - 19	2019 - 20	
35.	Number of Degrees and Certificates	2	7	0	
36.	Number of Degrees and Certificates Native Hawaiian	0	1	0	
37.	Number of Degrees and Certificates STEM	Not STEM	Not STEM	Not STEM	
38.	Number of Pell Recipients ¹	2	4	0	
39.	Number of Transfers to UH 4-yr	0	0	0	

* Used in Rubric to determine Health Indicator

Date Last Modified: 2020-10-13 01:45:20

3. Program Student Learning Outcomes or Unit/Service Outcomes

1. Examine blueprints sufficiently to use them to plan a project.
2. Select proper materials for a given project that comply with building standards and codes.
3. Maintain the tools required in the Construction Technology Industry.
4. Utilize Occupational Safety and Health Administration (OSHA) and State safety regulations necessary to assess a task for hazards and the steps required to minimize risks, protecting self and others.
5. Know the application of codes and regulations in the mechanical, electrical, and carpentry fields to construct or repair and maintain these systems within a facility.
6. Communicate successfully orally and in writing using computer technology.
7. Understand, integrate, and utilize knowledge in the professional environment.
8. Demonstrate professionalism with attitudes, conduct, ethics, and work practices.

Note: The above PSLO's are for the Building Construction Technology Program. The below assessments PSLO's are from the current Carpentry Program.

PSLO	Assessed During this APRU Cycle (Y or N)	Findings	Improvements Implemented	Next Assessment Date
Read and understand blueprints sufficiently to use them to plan a project.	Yes	All students passed with 70%	Work on "Just in Time" Math	Annually
Select materials properly for a given project.	Yes	All students passed with 80%	Work on identifying proper building materials	Annually
Maintain and care for the tools required in the carpentry industry.	Yes	All students passed with 90%	Students can improve on maintaining basic hand tools more efficiently	Annually

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PSLO	Assessed During this APRU Cycle (Y or N)	Findings	Improvements Implemented	Next Assessment Date
Know and utilize Occupational Safety and Health Administration (OSHA) and State safety regulations to minimize risk and protect self and others.	Yes	All students passed with 100%	Constant monitoring	Evaluated on a daily basis
Communicate successfully orally and in writing using computer technology.	Yes	All students passed with 70%	Students are required to write a weekly log.	Annually
Understand and demonstrate the craftsmanship standards of dependability, punctuality, and quality.	Yes	All students passed with 80%	Students are required to make up tardiness after class, cleaning up.	Daily

4. Action Plan

The consolidation of the Carpentry, Electrical Installation and Maintenance, and Facility Engineering programs was created to help the college justify the building trades on the island of Kaua'i by making it possible to meet the minimum numbers required by the UH BOR Executive Policy 5.229 Programs with Low Number of Degrees Conferred. The decision was made to modify the existing AAS Degrees to allow pathways to the Building Construction Trade (merging three programs into a single AAS degree with three concentrations). The Facility Engineering terminal CO has not had student completers formally noted in the total student graduates. Program consolidation will involve converting the existing terminal CO into a CA so that completion rates are formally reported by UH.

The Computer Aided Design, Welding, and Construction Academy courses are added to the program to give these stand-alone courses a CO under the Building Construction Technology Program to help boost enrollment and to budget funds to run the courses through the Trades Division. The Computer Aided Design is articulated with the P-20 DOE Pathways and needs to be included in the proposal so those courses can transfer to the UHCC system. Welding courses will reestablish itself because of public demand with increased AWS training standards to become an addition to the Facility Building Maintenance CA under the new BCT degree.

Recommendations

Consolidation efforts are modeled after the UHMC Construction Technology AAS Degree while building on the strengths of the EIMT and Carpentry programs at KauCC. The following statements are our recommendations:

- Creation of EC pathways as a replacement for KauCC's Construction Academy for CARP and AEC classes and bring additional secondary students to the College.
- Consolidate these programs as planned and have full-time faculty teach courses in as many disciplines as possible, eliminating lecturers and additional staff, and combine courses that are similar under one program.
- Realizing the Hotel Industry will rebound and these courses will be needed in the future, a restructuring of course offerings and temporarily not schedule low enrolled classes.
- Our final recommendation is to teach courses every other year with every other year start dates in areas to better utilize classroom space and staff.

No salary or cost savings will be gained by the elimination of the Facility Engineering program as the majority of courses are taught by salaried faculty of the existing EIMT and CARP programs. Minimal lecturers are used on courses for which current faculty do not meet the MQs. Loss of FENG students will make many of those combined classes low enrolled. The majority of Facility Maintenance students are returning adults seeking an occupational change or a work promotion. KauCC is the only source of training for Kaua'i residents to update their skills in the Hospitality Industry.

5. Resource Implications

Detail any resource requests, including reallocation of existing resources (physical, human, financial)

I am NOT requesting additional resources for my program/unit.