

UHCC December 2007 Coversheet – Annual Instructional Program Review

College: Hawaii Community College

Program: Electronics Technology

Check All Credentials Offered	AA	AS	ATS	AAS	CA	CC	COM	ASC	
				X					

College Mission Statement: Hawaii Community College promotes student learning by embracing our unique Hawaii Island culture and inspiring growth in the spirit of “*E ‘imi Pono.*”

Program Mission Statement: The mission of the Electronics Program is to provide students with an opportunity to practice the technical skills necessary to install, operate, and repair electronic systems and the interpersonal skills required to be a valued employee and contributing member of the community.

OVERALL PROGRAM HEALTH (Check one)		
Healthy	Cautionary	Unhealthy
	X	

Part II. Analysis of the Program (strengths and weaknesses in terms of demand, efficiency, and effectiveness based on an analysis of the data)

Average class size of 5 and a 25% fill rate coupled with reported *annual new and replacement positions in the county* of negative seven (-7) compared to 942 for the state indicate unhealthy demand and efficiency. These unfavorable statistics are in stark contrast to the favorable statistics reporting on the effectiveness of the program. Industry support also indicates a greater demand for qualified electronics technicians than the number reported for annual new and replacement positions in the county. The overall program health is deemed cautionary. Modifications made to curriculum as well as the use of distance education to connect with Maui and Kauai electronics programs have been implemented to improve efficiency and increase student demand.

Significant Program Actions (new certificates, stop-out; gain/loss of positions, results of prior year’s action plan)

The program submitted major program and curriculum changes fall 2007 that will go into effect fall 2008. Curricular changes include upgrading the majority of classes to 100 level or above; coordinating Hawaii CC course with those offered by Maui and Kauai Community Colleges; and

the addition of three new courses that introduce laser and optic technologies. The electronics program is also working with Maui and Kauai faculty to offer distance learning courses in key areas. This will improve average class size and maximize the sharing of faculty expertise.

Part III. Action Plan

1. Assessment strategies for student learning outcomes will be documented.
2. Curriculum changes for courses proposed in the Program changes go into effect fall 2008 that have not been submitted, will be completed.
3. Recruitment strategies will be developed, documented, and implemented.
4. A sustainability plan for the program will be developed in anticipation of the sole faculty's planned retirement in 2010 and to allow for a timely certification/licensure of the new faculty if necessary.
5. Faculty will explore the feasibility of integrating fuel cell and hydrogen technology into the curriculum.
6. The seven credit Certificate of Competence Photonics Technology will be offered and marketed to in-service technicians for up-grade training and certification to maintain marketability and employability.
7. Distance learning equipment will be purchased and installed with the first distance course offering scheduled for implementation in fall 2008.
8. Continue discussion with Maui and Kauai CCs in offering a **Bachelors** of Science Degree in Electronics Technology.

Part IV. Resource Implications (physical, human, financial)

1. The program currently has two BOR approved positions. Only one of these positions has been filled. The other was transferred to another program since current enrollment does not justify hiring another full-time faculty. All second year courses are currently taught by a lecturer which requires constant overseeing by the tenured faculty.
2. With the anticipated implementation of the laser and optics technologies, the existing facility is not conducive to the highly temperature-sensitive equipment especially in the non-air conditioned lab. The present air-conditioned room where the laser and optics technologies are housed is of insufficient square footage and does not provide for an efficient working environment for students.
3. The fiber-optics installer certification project requires additional acquisition of equipment valued ~ \$70K.

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