

***HAWAI`I COMMUNITY COLLEGE***  
**ANNUAL**  
**PROGRAM REVIEW REPORT**

**Agriculture**

**December 3, 2009**

**(Assessment Period: 2008-2009)**

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**UHCC December 2009 Coversheet –  
Annual Report Program Data**

**College: Hawaii Community College**

**Program: Agriculture**

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

**Introduction: Brief description of the program and program mission.**

***Program Mission***

The mission of the Agriculture Program is to provide curricula to prepare students for employment in the field of agriculture, landscaping, and entrepreneurship and to maximize the potential of the individuals to fulfill their personal and career goals. This will be accomplished through course work and experiences that develop their skills and abilities to meet the needs and requirements of a productive society.

The curriculum was revised to make the content and level of instruction more current. All of the basic courses were revised to 100+ numbers to reflect their new status and rigor. Two Certificates of Completion were proposed to position the program to the growing demand for landscape workers and farm workers with horticultural training and for students who desired only an introduction to agriculture. The Animal Science course offerings were discontinued as there were no available instructors.

The program now has a two-year cycle with a new cohort being added every other year. 2007 was a year when new students were enrolled. Subsequently, there will be fluctuations in completion(s) as students may select to receive a Certificate of Completion, Certificate of Achievement and/or an Associate of Applied Science degree. Students who receive high placement test scores are enrolled at any time.

**Part I.**

**Quantitative Indicators (Reported on 2009 Summary Report Program Data excel sheet --includes health calls based on system scoring rubric).**

**Annual Report of Program Data for Agriculture  
Hawaii Community College Program Major(s): AG**

<b>Overall Program Health</b>					<b>Unhealthy</b>
<b>Demand Indicators</b>					<b>Demand Health Unhealthy</b>
		Academic Year			
		Fall 06	Fall 07	08-09	
1	New & Replacement Positions (State)	27	1	376	
2	New & Replacement Positions (County Prorated)	18	1	106	
3	Number of Majors	11	11	23	
4	SSH Program Majors in Program Classes	21	60	158	
5	SSH Non-Majors in Program Classes	40	6	73	
6	SSH in All Program Classes	61	66	231	
7	FTE Enrollment in Program Classes	4	4	8	
8	Total Number of Classes Taught	3	3	11	
<b>Efficiency Indicators</b>					<b>Efficiency Health Cautionary</b>
		Academic Year			
		Fall 06	Fall 07	08-09	
9	Average Class Size	5.7	5.3	7.5	
10	Fill Rate	40%	38%	57%	
11	FTE BOR Appointed Faculty	1.0	1.0	1.0	
12	Majors to FTE BOR Appointed Faculty	11.0	11.0	22.5	
13	Majors to Analytic FTE Faculty	16.4	13.8	21.0	
13a	Analytic FTE Faculty	n/a	n/a	1.1	
13b	Majors to Analytic FTE Faculty @12cr.	13.1	11.0	16.8	
13c	Analytic FTE Faculty @12cr.	0.8	1.0	1.3	
14	Overall Program Budget Allocation @12cr. F07, 0809	\$35,341	\$51,656	\$71,424	
14a	General Funded Budget Allocation	n/a	n/a	\$71,424	
14b	Special/Federal Budget Allocation	n/a	n/a	\$0	
15	Cost per SSH @12cr. F07, 0809	\$579.36	\$782.67	\$309.19	
16	Number of Low-Enrolled (<10) Classes	2	3	8	
<b>Effectiveness Indicators</b>					<b>Effectiveness Health</b>
		Academic Year			
		2006	2007	08-09	
17	Successful Completion (Equivalent C or Higher)	n/a	n/a	76%	
18	Withdrawals (Grade = W)	n/a	n/a	3	

19	Persistence (Fall to Spring)	64%	55%	67%	Unhealthy
20	Unduplicated Degrees/Certificates Awarded	n/a	n/a	2	
20a	Number of Degrees Awarded	1	0	1	
20b	Certificates of Achievement Awarded	0	2	0	
20c	Academic Subject Certificates Awarded	n/a	n/a	0	
20d	Other Certificates Awarded	n/a	n/a	2	
21	Transfers to UH 4-yr	0	1	0	
21a	Transfers with degree from program	n/a	n/a	0	
21b	Transfers without degree from program	n/a	n/a	0	

C/P denotes that the measure is provided by the college, if necessary.

Data current as of: 8/19/2009 - 3:30:PM

Distance Education Completely On-line Classes		Academic Year		
		Fall 06	Fall 07	08-09
22	Number of Distance Education Classes Taught	n/a	n/a	0
23	Enrollment Distance Education Classes	n/a	n/a	0
24	Fill Rate	n/a	n/a	0%
25	Successful Completion (Equivalent C or Higher)	n/a	n/a	0
26	Withdrawals (Grade = W)	n/a	n/a	0
27	Persistence (Fall to Spring Not Limited to Distance Education)	n/a	n/a	0%
Perkins IV Core Indicators				
Perkins IV Measures 2007-2008		Goal	Actual	Met
28	1P1 Technical Skills Attainment	90.00	100.00	Met
29	2P1 Completion	44.00	0.00	Did Not
30	3P1 Student Retention or Transfer	55.00	100	Met
31	4P1 Student Placement	50.00	100	Met
32	5P1 Nontraditional Participation	25.00	30.77	Met
33	5P2 Nontraditional Completion	25.00	100	Met

## Part II.

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

- Note: 1) Career Technical Education (CTE) programs must include in analysis any Perkins IV Core indicator for which the program did not meet the goal.  
 2) If using alternative "program capacity" method to determine program efficiency, include in analysis.

#### Demand:

An analysis of the data provided in 2008 indicated a demand of only 1 position for the State of Hawaii. In 2009, it appears as if that figure rose to 376. This is more realistic. It is very difficult to plan if the figures fluctuate as wildly as they have.

The Program's capacity has been based on figures received over many years, and it is between 12 and 14 students. This capacity has fulfilled the past needs, but is impossible to meet future demands without an increase in classroom and faculty resources.

#### Efficiency:

Due to the heavy enrollment of new students on alternate years and the increased academic vigor, it can be expected that the efficiency indicators will reflect smaller class sizes on alternate years. The completion rate of the students will also vary.

#### Effectiveness:

The "Effectiveness Indicator" is "Unhealthy." This is reflected by the number of degrees/certificates awarded. Two Certificates of Completion were created to aid any student who wishes to exit after two semesters. The Program, however, cannot make the student apply for an award.

Options which are not recommended are grade inflation and higher entry standards in the basic skills such as English and math. Grade inflation would decrease the value of the award and an increase in entry standards will result in a dramatic decrease in enrollment, especially in the first year.

A more plausible option would be for the individual trade area faculty to counsel students to give a realistic picture of what is expected of the student before they enter. This option, used in the past, has been removed.

The Agriculture Program does not participate in distance education classes. Although this option was considered, it was deemed too difficult to provide a "hands-on" class at every class site for every class period.

Perkins IV Core Indicators indicate that 2P1, completion, was not met in 2007. As we enroll new students on alternate years, this is expected. 2007 was a year when new students were enrolled.

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

Continue refining plans proposed in 2006 as it is leading to higher enrollment

Acquired a soil sterilizer

Disposed of the 1981 pickup truck. It was determined that further operation of the vehicle was dangerous.

Continue to work on outcomes and assessment

Identify the program with natural farming techniques

### Part III. Action Plan

Review course level outcomes and submit necessary curriculum forms to update course outlines and syllabi.

Develop and document assessment strategies for all program learning outcomes.

Identify the program with natural farming techniques

Develop better natural farming techniques

Continue to work on actions planned in the past.

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

Item	Rationale	Estimate Cost
Hire a new faculty and farm technician	The management of the agriculture facilities, prepare coursework, recruit, advertise, and serve the college in committees have surpassed the ability of one instructor. All of the actions proposed can be carried out only a limited scale by one instructor. The need for another person is paramount if the program is to reach its full potential.	\$ 55,000
Purchase farm diesel powered cart	The cart will give the students training in farm equipment operation and allow the movement of materials from distant points on the Panaewa farm.	15,000
Replacement of pick up truck	Primary truck was over 26 years old and was unsafe to operate; vehicle was disposed.	45,000
Replacement of microscopes	Mildew damaged purchased in 1981	11,200
Upgrade existing shade house with electricity	The availability of electricity will make automation possible. This may lead to less labor costs and better crop quality.	3,000

Annual Report Program Data and analysis located on college website at:

[AY 2009 Completed Annual Program-Unit Reviews](#)