

University of Hawaii Maui College

2011 Annual Report of Instructional Program Data

Dental Hygiene

Program Mission:

Mission

The Dental Hygiene Associate in Science Program is a two year program (upon submission to the Dental Hygiene Program) that prepares students to become oral health care professionals whose work will positively impact the oral health status of the Maui County and the neighbor islands.

Part I: Program Quantitative Indicators

Overall Program Health: **Healthy**

Majors Included: DH

Demand Indicators		Program Year			Demand Health Call
		08-09	09-10	10-11	
1	New & Replacement Positions (State)	0	27	33	Healthy
2	New & Replacement Positions (County Prorated)	0	2	3	
3	Number of Majors	0	11	10	
4	SSH Program Majors in Program Classes	0	190	185	
5	SSH Non-Majors in Program Classes	0	14	0	
6	SSH in All Program Classes	0	204	185	
7	FTE Enrollment in Program Classes	0	7	6	
8	Total Number of Classes Taught	0	10	9	

Efficiency Indicators		Program Year			Efficiency Health Call
		08-09	09-10	10-11	
9	Average Class Size	0	10.4	8.8	Cautionary
10	Fill Rate	0%	99%	88%	
11	FTE BOR Appointed Faculty	0	0	0	
12	Majors to FTE BOR Appointed Faculty	0	0	0	
13	Majors to Analytic FTE Faculty	0	14.2	12.2	
13a	Analytic FTE Faculty	0	0.7	0.8	
14	Overall Program Budget Allocation	Not Yet Reported	\$78,547	\$90,786	
14a	General Funded Budget Allocation	Not Yet Reported	\$84,047	\$81,786	
14b	Special/Federal Budget Allocation	Not Yet Reported	\$0	\$0	
15	Cost per SSH	Not Yet Reported	\$385	\$491	
16	Number of Low-Enrolled (<10) Classes	0	0	9	

Effectiveness Indicators		Program Year			Effectiveness Health Call
		08-09	09-10	10-11	
17	Successful Completion (Equivalent C or Higher)	0%	96%	100%	Healthy
18	Withdrawals (Grade = W)	0	0	0	
19	Persistence (Fall to Spring)	0%	100%	100%	
20	Unduplicated Degrees/Certificates Awarded	0	0	9	
20a	Degrees Awarded	0	0	9	
20b	Certificates of Achievement Awarded	0	0	0	
20c	Academic Subject Certificates Awarded	0	0	0	
20d	Other Certificates Awarded	0	0	0	
21	Transfers to UH 4-yr	0	0	0	
21a	Transfers with credential from program	0	0	0	
21b	Transfers without credential from program	0	0	0	

Distance Education: Completely On-line Classes		Program Year			
		08-09	09-10	10-11	
22	Number of Distance Education Classes Taught	0	0	0	
23	Enrollment Distance Education Classes	0	0	0	
24	Fill Rate	0%	0%	0%	
25	Successful Completion (Equivalent C or Higher)	0%	0%	0%	
26	Withdrawals (Grade = W)	0	0	0	
27	Persistence (Fall to Spring Not Limited to Distance Education)	0%	0%	0%	

Perkins IV Core Indicators 2009-2010		Goal	Actual	Met	
28	1P1 Technical Skills Attainment	90.05	100.00	Met	
29	2P1 Completion	44.50	0.00	Not Met	
30	3P1 Student Retention or Transfer	55.50	90.00	Met	
31	4P1 Student Placement	50.50	0	Not Met	
32	5P1 Nontraditional Participation	16.00	0	Not Met	
33	5P2 Nontraditional Completion	15.10	0	Not Met	

Last Updated: September 22nd, 2011

Part II: Analysis of the Program

Institutional Data

In Spring 2011, the University of Hawai'i Maui College granted all the nine students the Associate in Science Degree in Dental Hygiene. The demand indicators state that there are only 3 new or replacement positions in dental hygiene in 2010-11. However, the dentists on Maui have requested this program to fulfill their urgent needs. In addition, all nine students are currently employed as dental hygienist either full/part time here on Maui.

Under the Efficiency Indicators, the Average Class size is listed as 8.8 in 10-11. The class size was 9. The American Dental Association Commission on Dental Accreditation (ADACODA) mandates clinical groups of 5 or less. Therefore the program admits only 10 students per cohort.

Under the Majors to Analytic FTE Faculty data indicates there are only 12.2 DH majors in 10-11. However this data is misleading because of the Career Ladder DA/DH program. Students eligible for admission to the DH program are either Dental Assisting (DENT) majors or Liberal Arts (LA) prior to admission to the program.

Perkins

Under the Perkins IV Core Indicators 2009-2010, 2P1 and 4P1 have not been measured because students did not graduate. Regarding to 5P1 and 5P2, DH Students are customarily female. To date, no male students have applied to the UH Maui College DH program but I am hoping that would change in the future!

A. PLO being assessed and courses being used to assess

- Evidence was collected in DH 261 in the Fall 2011 to assess PLO 2.
- Evidence was collected in DH 263 during the Spring 2011 to assess PLO 1.

Assessment Plan

Timetable of Program Learning Outcome

Program Review Cycle

PLO	2010	2011	2012	2013	2014
1		DH 263 Spring		DH 263 Spring	
2	DH 153 Spring	DH 261 Fall	DH 155 Spring		DH 258 Fall
3	DH 260 Fall		DH 262 Fall	DH 257 Fall	DH 156 Spring

B. Assessment tools or methods used to analyze the outcome

DH 261 Clinical Dental Hygiene 2

The student learning outcomes for DH 261 is to recognize and value the need for consistently performing all dental hygiene procedures to acceptable standards of care. The students demonstrate the correct procedures for proper use of the mouth mirror, probes, explorers, curets and other instruments. As well as performing preventive and therapeutic dental hygiene procedures including: complete removal of calculus, soft deposits, plaque, stains, and smoothing of the unattached surfaces in order to create an environment in which hard and soft tissues can be maintained in good health by the patient. In addition to the dental hygiene program outcome, the student was assessed on his or her knowledge of the following general education standards: written and oral communication, information retrieval, and critical thinking and quantitative reasoning.

Only dental hygiene majors were enrolled in this course. Evidence was reported on the nine students who completed the course. For PLO 2, 100% (9 of the 9 students) showed exemplary understanding.

In DH 261, there were three quizzes; a midterm exam, a final exam and class participation were assigned to assess students' performance. Only the final exam score was used as evidence to assess PLO#2. All of the exams and quizzes including class participation assessed their understanding of this clinical course of dental hygiene. Proficiency in oral communication was assessed utilizing an oral communication rubric. All of the students were proficient in these general education standards at a level necessary for their intended role.

DH 263 Clinical Dental Hygiene 4

The student learning outcomes for DH 263 focuses on assessing, planning, implementing, and evaluating dental hygiene care on clinic clients by systematically collecting, analyzing, and recording information from a client's personal, dental, and health history according to clinic guidelines and determining conditions which require special appointment planning, antibiotic premedication, medical consultation, and/or physician referral. Students then will interpret information gathered from the client assessment and formulate an appropriate dental hygiene treatment plan for clients seen in the clinic. They identify patients in need of fluoride treatment and determine the best type of fluoride for the client. The students also demonstrate the correct technique for coronal polishing on a client by selecting the appropriate polishing agent, adapting the rubber cup to all tooth surfaces, and effectively removing all stains. Furthermore, they administer local anesthesia injections using the proper procedures on the following injections: infiltrations, nasopalatine, anterior palatine, posterior superior alveolar, middle superior alveolar, inferior alveolar/lingual blocks, and long buccal.

Only dental hygiene majors were enrolled in this course. Evidence was reported on the nine students who completed the course. For PLO 1, 100% (9 of the 9 students) showed exemplary understanding and successfully passed both written and clinical hygiene board examinations.

All of the students were proficient in these general education standards at a level necessary for their intended role.

Two out of nine students were unsuccessful on their first attempt to pass the clinical dental hygiene board exam due to improper patient selection. In the future, patients will be selected at least one semester prior to the scheduled clinical dental hygiene board examination. In addition, all potential patients will be screened by two or more faculty members.

Although these two students were unsuccessful on their first attempt, they successfully earned a 96% and 100% on the first retake. Therefore, in academic year 2011 all nine students successfully passed both written and clinical dental hygiene board examinations.

CRDTS Dental Hygiene Examination Results (Clinical Examination)

UNIV OF HAWAII MAUI COLLEGE Exam at Hawaii, Univ of – Manoa

Dental Hygiene Test Summary 4/29/2011

ID #	School	Date	Year	Total
1187632560	213	April	2011	86.00
1185677443	213	April	2011	100.00
1164671254	213	April	2011	100.00
1134212080	213	April	2011	100.00
1151868554	213	April	2011	96.00
1184527606	213	April	2011	81.00
1172410011	213	April	2011	91.00
1147233747	213	July	2011	96.00
1108325510	213	July	2011	100.00

PASSING SCORE

75% and above

National Board Dental Hygiene Examination (Written Examination)

213 -- MAUI COM COLL-HI

		Test															Case
DENTPIN	Grad	Date	Score	A	B	C	D	E	F	G	H	I	J	K	L	M	Based
53161644	2011	03/11	82	12	5	5	8	4	61	39	35	18	10	9	16	14	105
69868284	2011	03/11	86	14	6	7	9	9	59	36	51	18	11	5	15	15	119
38627836	2011	03/11	87	11	10	7	7	5	61	44	52	18	10	7	17	15	115
96048023	2011	03/11	84	10	9	6	10	6	60	43	49	14	9	8	16	11	107
27708839	2011	03/11	84	11	7	6	8	7	53	42	42	14	10	11	16	19	110
78576850	2011	03/11	86	11	6	9	8	4	60	47	35	19	11	12	15	17	114
56278907	2011	03/11	84	11	4	7	8	5	61	39	36	19	11	11	17	16	112
81123579	2011	03/11	89	13	8	5	10	6	53	49	49	20	12	6	17	21	120
29220221	2011	03/11	77	9	5	4	5	5	53	33	30	14	13	11	18	13	108
Summary for 213 -- MAUI COM COLL-HI																	
Number of candidates: 9																	
School Averages:			84.3	11.3	6.7	6.2	8.1	5.7	57.9	41.3	42.1	17.1	10.8	8.9	16.3	15.7	112.2
National Averages:			82.7	9.7	6.5	5.8	7.9	5.6	51.5	37.3	40.2	16.4	10.4	7.9	13.2	14.6	99.7

C. Summative evidence

SUMMATIVE EVIDENCE

	Exceeds	Meets	Needs Improvement	Insufficient Progress	N/A
DH 261 Clinical DH 2 PLO 2 - Provide comprehensive dental hygiene care to promote patient/client health and wellness using critical thinking and problem solving in the provision of evidence-based practice.	9				
Average PLO Score for the course	9				
General Education Standards:					
Critical Thinking	100%				
Oral Communication	100%				
Written Communication	100%				
Information Retrieval	100%				
Quantitative Reasoning	100%				
Creativity					
DH 263 Clinical DH 4 PLO 1- Demonstrate their cumulative knowledge and skill by successfully passing both written and clinical dental hygiene board examinations.	9				
Average PLO Score for the course	9				
General Education Standards:					
Critical Thinking	100%				

Oral Communication	100%				
Written Communication	100%				
Information Retrieval	100%				
Quantitative Reasoning	100%				
Creativity					

D. Result of assessment evidence

- In DH 261 Clinical Dental Hygiene 2, one hundred percent of the dental hygiene students were proficient in PLO 2, as well as meeting the general education requirements in critical thinking, oral and written communication, information retrieval, and quantitative reasoning
- In DH 263 Clinical Dental Hygiene 4, one hundred percent of the dental hygiene students were proficient in PLO 1 as well as meeting the general education requirements in critical thinking, oral and written communication, information retrieval, and quantitative reasoning.

E. Discovered about student learning

It is part of my educational philosophy that students can attain the course standards when I let them know clearly what is expected of them. I believe that they must be accountable for all of their words and actions, and I emphasize that learning occurs when they are active participants in the process. I want them to feel like the outcome of their education is a large part their responsibility. I believe setting high standards, not only in the classroom, but also in how each student behaves and functions as a professional. I take the responsibility of educating our future dental hygiene professionals seriously. I want my students to feel respected and honored by me and understand that these principles have been earned and not given freely.

Students are all unique, and each of them brings special talents to share. The value of working hard, practicing discipline, loving to learn, and the desire to keep learning are some of the gifts I strive to give my students.

F. Recommendations from the Dental Advisory Board regarding Program/Student Learning Outcomes will be implemented.

G. Changes made to curriculum

No changes have currently been made in the Dental Hygiene curriculum or pedagogy to improve student learning. Additional evidence will be collected and analyzed as the program continues to evolve. The program began instruction in 2009.

H. Programs strengths and weaknesses

UH Maui College DH Program Strengths and Weaknesses Report	
STRENGTHS	WEAKNESSES
Maintain high level of qualified faculty	Limited clinical facility which is shared by other dental programs
Access to AS degree in Dental Hygiene at UHMC	
Meeting the demands of local DDS who need hygienists	
Support from strong active community Advisory Committee	

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Part III: Action Plan

A. Planned changes

- Two out of nine students were unsuccessful on their first attempt to pass the clinical dental hygiene board exam due to improper patient selection. In the future, patients will be selected at least one semester prior to the scheduled clinical dental hygiene board examination. In addition, all potential patients will be screened by two or more faculty members.
- As the Dental Hygiene Program projects toward future needs, at least one full time faculty member will be required to meet the mandate from the Commission on Dental Accreditation that the student to instructor ratio be maintained at 5:1. This faculty position will be an 11 month assignment. As the renovation of Noi'i is completed, the College plans to admit one Dental Hygiene class each academic year versus one class every two years. The approximate cost of additional faculty and lecturers (1.0FT 11month faculty and 2 0.5 FTE Lecturers) is 130,000. These funds will be requested in the biennium budget.
- Recommendations from the Dental Advisory Board regarding Program/Student Learning Outcomes will be implemented.

B. Assessment of Program Goals and Future Planning

The goals of the dental program are to prepare the dental hygiene students to competently:

- Demonstrate their cumulative knowledge and skill by successfully passing both written and clinical dental hygiene board examinations. In the future, the DH program will strive for 100% success rate on the first attempt for clinical board exam.
- Provide affordable and accessible oral/dental health care to the underserved, low-income, uninsured families of Maui. The new Noi'i dental program facility will allow for accepting one DH class each academic year, thereby increasing the number of dental hygienist serving this urgent sector of the population.

Part IV: Resource Implications

DESCRIPTION	ITEMIZED COSTS
FT 11 month faculty	80,000
2 0.5 FTE Lectures	52,000
Secretarial support	9,473
Benefits	84,000
Professional development	1,600
Travel for student supervision	5,000
Instructional materials	1,010
Clinic supplies	10,000
Laboratory supplies	8,500
Office supplies	1,800

Program Student Learning Outcomes

A. Program Learning Outcomes List

Upon graduation the dental hygiene students will be able to:

- Demonstrate their cumulative knowledge and skill by successfully passing both written and clinical dental hygiene board examinations.
- Provide comprehensive dental hygiene care to promote patient/client health and wellness using critical thinking and problem solving in the provision of evidence-based practice.
- Provide accurate, consistent, and complete documentation for assessment, and evaluation of dental hygiene services.

B. Program Map

PLO	1	2	3
DH 150	3	2	2
DH 153	3	3	2
DH 155	3	2	3
DH 156	3	3	3
DH 173	3	2	2
DH 254	3	3	2
DH 255	3	2	3
DH 256	3	2	2
DH 257	3	2	2
DH 258	3	3	2
DH 260	3	3	3
DH 261	3	3	3
DH 262	3	3	3
DH 263	3	3	3
DH 264	3	3	2
DH 265	3	3	1
DH 266	3	3	3
DH 267	3	3	2

DH 268	3	3	2
DH 269	3	3	2

C. Assessment Plan

Assessment Plan

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