ACTION PLAN – 2006

Program Health Indicators
Carpentry Technology
Maui Community College

Introduction

The carpentry program was established in the days of the Maui Technical School, and transferred to the University of Hawaii Community Colleges System in 1966. Enrollment in the program declined in the early 1980's. Modularized, self-paced courses of 2-credits each were developed and initially offered in the fall of 1984. Enrollment increased temporarily. With the acceleration of construction during the late eighties, the Carpentry apprenticeship program began recruiting students. Offering courses during the evenings on-campus and weekends on Molokai increased the numbers of majors in the early 1990's. The graduation rate has not increased because of the part-time status of a majority of students.

Problems, Solutions, and Goals

For the last two years, enrollment has been steady, but majors have not increased. Students have expressed interest in broader coverage of the construction options which include "green" building, electrical wiring, furniture making, furniture refinishing, plumbing, owner-builder training, etc. Such courses will be offered as needed and several courses now being taught in other technical programs on campus will be standardized to decrease the number of sections (usually under enrolled) offered.

During the summer 2003, the curriculum for the AAS was modified to address the National Skill standards for the residential construction industry. These standards have been developed by the National Association of HomeBuilders through their Home Builders Institute.

These curricular changes will allow us to keep up with trends in the industry and increase the demand for the program. The new program is being offered Fall semester 2004.

Further improvements are in the offing this semester, with plans underway to combine all of the building trades under one construction technology umbrella.

ACTION PLAN – 2006

Program Health Indicators
Drafting Technology
Maui Community College

Introduction

The drafting program was established in the days of the Maui Technical School, and transferred to the University of Hawaii Community Colleges System in 1966. Enrollment in the program declined in the late 1970's. This decline prompted the decision to put the program on a "stop-out" until Fall, 1984. The program remained on "stop-out" status until the fall of 1993 when the program was activated. Lecturers were hired to teach basic drafting courses and, in order to reduce cost and expand the availability of offerings, self paced classes will be offered concurrently, including DRAFT 36, 38, 40: Draft I, II, III.

In fall of 2001, with the assistance of the Drafting PCC, the program was updated initiating CAD for all of the drafting courses. The program now matches what is offered at Honolulu Community College.

During the summer of 2002, seventeen new computers were purchased with Carpentry revolving funds, and the courses were offered during the 2002-2003 academic year. All courses were offered in the evening hours to provide access to those currently employed.

During the Spring and Summer of 2003 an additional seven computers were purchased increasing the class size maximum to 24.

To date we have awarded five one year Certificates of Achievement.

Problems, Solutions, and Goals

For the first new drafting class offering, we had more applications for the program than computers in the classroom. With a dropout rate of 30% we had just enough enrollment to be able to offer the second semester courses. Eight more computers are being purchased during the summer 2003, allowing us to have provided space for twenty-four students. This will room in the class to overcome the dropouts that occur.

The computers are also being used for Sustainable Technology, math and English courses, supporting these areas of interest to our students as well.'

Further improvements are in the offing this semester, with plans underway to combine all of the building trades under one construction technology umbrella.

ACTION PLAN – 2006

Program Health Indicators
Building Maintenance Technology
Maui Community College

Introduction

The Building Maintenance program was established in the days of the Maui Technical School, and transferred to the University of Hawaii Community Colleges System in 1973. Enrollment in the program declined in the early 1980's. Modularized, self-paced courses of 2-credits each were developed and initially offered in the fall of 1984. Enrollment increased temporarily. With the acceleration of construction during the late eighties, the Carpentry apprenticeship program began recruiting students. Offering courses during the evenings on-campus and weekends on Molokai increased the numbers of majors in the early 1990's. The graduation rate has not increased because of the part-time status of a majority of students.

Problems, Solutions, and Goals

For the last two years, enrollment has been steady, but majors have not increased. Students have expressed interest in broader coverage of the construction options which include "green" building, electrical wiring, furniture making, furniture refinishing, plumbing, owner-builder training, etc. Such courses will be offered as needed and several courses now being taught in other technical programs on campus will be standardized to decrease the number of sections (usually under enrolled) offered.

During the summer 2003, the curriculum for the AAS was modified to address the National Skill standards for the residential construction industry. These standards have been developed by the National Association of HomeBuilders through their Home Builders Institute.

These curricular changes will allow us to keep up with trends in the industry and increase the demand for the program. The new program is being offered Fall semester 2004.

Further improvements are in the offing this semester, with plans underway to combine all of the building trades under one construction technology umbrella.

ACTION PLAN – 2006

Program Health Indicators
Sustainable Technology
Maui Community College

Introduction

The Sustainable Technology program had its inception in spring of 2001 when the University of Hawaii Board of Reagents approved the program. It provides for an Associate in Applied Science degree, and a Certificate of Achievement program in Sustainable Technology, with four Certificates of Competence exit points in Energy Management, Energy Production, Energy Control and Biomass Energy Processes.

The program meets a growing need in Maui County where no such education and training existed. Maui County has seen a growth in companies and consumers who are moving to sustainable systems to improve energy efficiency and competitiveness. In light of the state's dependence upon shipping in fuel for energy production, there is a growing need for persons knowledgeable in the installation, function, retrofit, maintenance, and repair of systems that reduce our dependence on oil-based electricity.

Strengths, Weaknesses, Solutions, and Goals

The Sustainable Technology (SUSTECH) program provides the opportunity to members of our community, County and State for pre-employment entry and intermediate level skills as well as in-service training on implementing energy-saving systems in buildings and structures.

The mission of the SUSTECH program is to provide:

Knowledge and skills on the design, construction and repair of "green" buildings that employ energy conservation methods, recycled construction materials, and such renewable power sources such as wind, sun, biomass and other sustainable technologies

Strengths include:

Skills on the use of computer-controlled equipment and related diagnostics for reducing electrical consumption are offered.

Strong theoretical background in the field of electricity and electrical power production and management as a basis for student adaptation to rapid changes in the field of electrical conservation is provided..

Program is "cutting edge" technology, providing skills training for systems just coming into their own with respect to cost, reliability and wide spread use.

Due to the availability of highly qualified lecturers, the program is relatively low cost with respect to faculty. Hands on training for

students provide low cost acquisition and maintenance of sustainable systems and energy management initiatives on campus.

We had our first graduate in May 2004.

Weaknesses include:

The program is new, not widely known, with enrollment minimum limitations.

The sustainable technology is still more expensive than conventional systems, although the margin is getting smaller every year.

Our student population base is relatively small for a new technology.

Solutions include:

Publicizing the through newspaper, coordinator visits to high school, and participation in annual college day activities and energy fair activities.

Working with our community partners, Maui Electric Company and the County of Maui to promote and encourage enrollment in the program.

Goals include:

Developing the curriculum for WEB based delivery. This will allow us to gain enrollment from Lanai, Molokai and Hana.

We will convene our advisory committee and other interested parties to explore ways of reaching the community with respect to program visiblity, enrollment, and job opportunities.

OUTCOME - Perkins

PROGRAM	1P1 Academic Achieve	1P2 Vocational Achieve	2P1 Completion Cert/Deg	3P1 Employed/ Transfer	3P2 Retained Emp/Transfer	4P1 Non Tradi'l Participants	4P2 Non-Tradi'l Cmpleters
Liberal Arts	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Accounting	80%	86%	10%	62%	88%	13%	0%
Applied Busn & Info Tech	new pgm	new pgm	new pgm	new pgm	new pgm	new pgm	new pgm
Business Careers	82%	76%	21%	50%	100%	0%	n/a
Business Technology	80%	86%	10%	62%	88%	13%	0%
Food Service	71%	86%	36%	86%	100%	n/a	n/a
Hospitality & Tourism	88%	82%	36%	67%	75%	31%	20%
Administration of Justice	100%	100%	33%	100%	100%	45%	100%
Human Services	91%	99%	17%	89%	100%	8%	6%
Nursing: Assoc Degree	100%	100%	50%	88%	87%	13%	16%
Nursing: Practical Nurse	100%	94%	28%	0%	n/a	15%	15%
Nursing: Dental Assisting	new pgm	new pgm	new pgm	new pgm	new pgm	new pgm	new pgm
Agriculture & Natl Resources	88%	100%	0%	67%	100%	44%	100%
Auto Body Repair & Paint	100%	100%	25%	n/a	n/a	7%	0%
Automotive Technology	83%	69%	15%	67%	100%	6%	14%
Building Maintenance	100%	100%	0%	n/a	n/a	8%	50%
Carpentry Technology	n/a	100%	0%	n/a	n/a	33%	n/a
Drafting Technology	0%	67%	33%	n/a	n/a	20%	0%
Electronic-Cmptr Enginr Tech	87%	100%	13%	25%	100%	28%	33%
Fashion Technology	100%	80%	0%	67%	100%	4%	0%
Sustainable Technology	n/a	n/a	n/a	100%	100%	33%	n/a
Welding Technology	n/a	n/a	n/a	n/a	n/a	25%	0%

Source.-- UHCC office; data drawn F05 census date (5th Friday) -- most recent data for program reviews due Oct 2006.

	Student Semester Hrs (SSH)					Full-Time Equivalent (FTE) Student				
Course Alpha	F01	F02	F03	F04	F05	F01	F02	F03	F04	F05
LibArts	13,345	14,863	15,309	15,692	15,305	890	991	1,021	1,046	1,020
ACC	711	688	646	582	579	47	46	43	39	39
HOST	355	349	360	373	285	24	23	24	25	19
BUS	434	546	628	559	711	29	36	42	37	47
MGT	141	189	174	180	219	9	13	12	12	15
MKT				102					7	
BLAW	93	174	129	78	75	6	12	9	5	5
BCIS	564	633	873	916	1,024	38	42	58	61	68
OAT	537	692	166			36	46	11		
BMAC	38	48				3	3			
WPRO	27	39				2	3			
FSER	885	932	1,103	1,389	1,198	59	62	74	93	80
AJ	141	198	90	132	129	9	13	6	9	9
HSER	641	627	1,087	671	729	43	42	72	45	49
NURS	1234	1351	1,204	1,502	1,575	82	90	80	100	105
DENT		135	230	256	243		9	15	17	16
FSHN	181	225	270	225	246	12	15	18	15	16
PHAR		39		251	300		3		17	20
AG	184	235	202	152	254	12	16	13	10	17
ABRP	106	140	158	142	164	7	9	11	9	11
AMT	447	424	469	429	411	30	28	31	29	27
CARP	134	92	43	54	45	9	6	3	4	3
DRAF/AEC	65	110	121	65		4	7	8	4	
FT	184	255	236	171	207	12	17	16	11	14
ENGY	78	51	65		76	5	3	4		5
WELD	42	73	27	39		3	5	2	3	
MAIN	33	54	75	54	82	2	4	5	4	5
BLPRT		39		51	42		3		3	3
ELEC	26	60		75	72	2	4		5	5
OSH	11	13	11	6	7	1	1	1		
HLTH	11	34	15	18	18	1	2	1	1	1
ETRO	123	119	90	141	173	8	8	6	9	12
ICS	1009	949	912	836	882	67	63	61	56	59

Student semester hours (SSH) = No. students in class x class credit.
Full-time equivalent (FTE) = SSH divided by 15 (a full-time load).
Source: MAPS; F05 is preliminary data.
Notes:

SSH and FTE are inclusive of outreach classes.
ABIT data are nested with other alphas, e.g. BUS, ACC, etc.
BUS contains courses from Business Tech and Business Careers.
BCIS contains courses from Business Tech and Business Careers in F03-F05.
HSER includes HSER, ED, SOSE.
NURS contains Associate Degree, Practical Nurs, and Nurse Aide program.
HLTH contains HLTH 31 (BLDM) with nursing HLTH courses.

No. Classes Taught

Course Alpha	F01	F02	F03	F04	F05
LibArts	213	211	186	213	204
ACC	12	11	8	10	10
HOST	5	5	4	5	5
BUS	7	9	11	9	11
MGT	2	3	3	3	4
MKT				1	
BLAW	1	2	1	1	1
BCIS	9	10	14	17	17
OAT	26	36	3		
BMAC	2	3			
WPRO	1	1			
FSER	23	21	30	35	34
AJ	4	3	2	3	2
HSER	17	12	15	11	17
NURS	33	37	28	16	15
DENT		4	4	5	5
FSHN	4	3	3	3	3
PHAR		3		4	2
AG	6	12	8	4	6
ABRP	5	5	5	5	5
AMT	10	9	10	9	9
CARP	6	3	1	2	1
DRAF/AEC	1	2	2	2	
FT	7	7	6	5	5
ENGY	3	2	2		1
WELD	2	3	1	1	
MAIN	2	3	3	2	3
BLPRT		1		1	1
ELEC	2	2		2	2
OSH	1	1	1	1	1
HLTH	1	2	1	1	1
ETRO	3	3	2	3	3
ICS	19	15	13	15	14

Source: MAPS; F05 is preliminary data.
Notes:

No. of Classes Taught is inclusive of outreach classes.
ABIT data are nested with other alphas, e.g. BUS, ACC, etc.
BUS contains courses from Business Tech and Business Careers.
BCIS contains courses from Business Tech and Business Careers in F03-F05.
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