

Certificate of Achievement in Agripharmatech

Track 1: Plant Biotechnology and Track 2: Ethnopharmacognosy

Date of Proposal (2^{ed} stage): September 2011 Proposed Date of Program Implementation Spring 2012



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1. Program Objectives

Plant biotechnology in the broadest sense deals with developing and improving plant production in order to supply the world's need for healthier (decreased use of pesticides) and more nutritious (higher vitamin and protein content) food crops, as well as biofuels, and plant-derived pharmaceuticals. The proposed Certificate of Achievement in Agripharmatech has two tracks of disciplines: Plant Biotechnology, and Ethnopharmacognosy. Agripharmatech is a combination of the two disciplines. The new 24 credit hour CA is proposed to replace the existing Academic Subject Certificate in BioResources and Technology: Plant Biotechnology (ASC BRT-PB).

In 1998, after prompting from the United States Congress, the National Institute of General Medical Sciences (National Institute of Health) initiated funding for biotechnology training. Under this program, universities nationwide received funds to establish biotechnology training programs. University of Hawaii - Windward Community College received Millennium Workforce Development Initiative (MWDI) grants to provide Plant Biotechnology – Tissue and Cell Culture Training Courses in Summer 2000 and 2001. The success of these training courses led to the establishment of four plant biotechnology program facilities, and to the offering of the ASC BRT-PB.

The four plant biotechnology program facilities include the Tissue Culture and Plant Biotech Laboratory, the Bioprocessing Medicinal Garden Complex, the Climate-Controlled Greenhouse, and the Kuhi La'au – Tropical Plant and Orchid Identification Facility (see Appendix 1). The facilities (including the equipment) and the program were developed and supported through grants from the USDA-NIFA*, USDA-SPEC*, HI-BRIN*, EPSCoR*, and PCATT*. The ASC BRT-PB has been offered and fully supported through grants from USDA-NIFA since 2002 (see Appendix 2).

The Plant Biotechnology program has generated a total of forty-five ASC BRT-PB graduates (29% are Native Hawaiians, 31% Caucasians, 24% Asians, 13% Mixed, 2% Pacific Islander). 40% of the graduates have entered the agribiotech workforce, 78% have transferred and received higher degrees, and 22% have become agribioprocessing entrepreneurs (the total percentage exceeds 100% because different categories overlap. See Appendix 3).

The CA in Agripharmatech: Plant Biotechnology (track 1) focuses on plant molecular genetics and its applications. See research track 1 posters on virus free transgenic orchids, and the phylogenetic study of Epidendrums in Appendix 4. The CA in Agripharmatech: Ethnopharmacognosy (track 2) focuses on plant pharmacognostical study and its application. See research track 2 publications on Ethnopharmacognosy Series I, II and III in Appendix 5.

^{*} USDA-NIFA (United States Department of Agriculture-National Institute of Food and Agriculture), USDA-SPEC (Secondary and Two-Year Postsecondary Agriculture Education Challenge), HI-BRIN (Hawaii-Biomedical Research Infrastructure Network), EPSCoR (Office of Experimental Program to Stimulate Competitive Research), and PCATT (Pacific Center for Advanced Technology Training)

Major Objectives for Agripharmatech Program (see Appendix 6a, 6b, 7a, 7b for Program Reviews and Program Maps):

A. Provide a skilled workforce

- Track 1: CA in Agripharmatech Plant Biotechnology (CA A-PB): Through education, research and training, CA A-PB graduates will be skilled in the areas of plant biotechnology, microbial biotechnology. tissue culture, teaching/research in plant biological sciences, orchid molecular phylogenetic/taxonomy/breeding, plant nursery management, plant identification, plant conservation, plant quarantine inspection.
- Track 2: CA in Agripharmatech Ethnopharmacognosy (CA A-EP): Through education, research and training, CA A-EP graduates will be skilled in the areas of plant bioproduct manufacturing, pharmaceutical/nutraceutical research, green pharmacy, teaching/research in ethnobotany, microbiology and plant ecology, plant nursery management, organic farming, plant conservation, plant quarantine inspection, dietary/health-food product management/inspection.

B. Facilitate student transfer to higher degree institutions

- Track 1: CA in Agripharmatech Plant Biotechnology (CA A-PB): CA A-PB graduates are more likely have taken all general education course requirements by the time they receive this certificate. They should be able to transfer their credits smoothly to any higher degree institutions, majoring in agribiosciences including plant/microbial/general biotechnology, plant molecular phylogenetic taxonomy, agricultural sciences, horticulture, bioinformatics, biology, and biomedical sciences.
- Track 2: CA in Agripharmatech Ethnopharmacognosy (CA A-EP):

CA A-EP graduates are more likely have taken all general education course requirements by the time they receive this certificate. They should be able to transfer their credits smoothly to any higher degree institutions, majoring in agribiosciences includes ethnobotany, agricultural sciences, pharmacy, horticulture, biology, and biomedical sciences.

Note: The course alignment and the articulation agreement were finalized in Fall 2002 and Summer 2004 with the College of Tropical Agriculture and Human Resources at University of Hawaii, Manoa; the College of Agriculture, Forestry and Natural Resource Management at University of Hawaii, Hilo; and the Department of Botany at University of Hawaii, Hilo (see Appendix A and http://www.hawaii.edu/gened/articulation_wincc.htm). The course alignment was also created with the University of Alaska at Fairbanks in 2009 (see Appendix B). A chart showing WCC Plant Biotechnology student transfer and workforce pathways was developed by CTAHR at UHM (see Appendix C).

C. Promote agribusiness entrepreneurship

- Track 1: CA in Agripharmatech Plant Biotechnology (CA A-PB): CA A-PB graduates are well equipped with knowledge and should be able to operate their own agribusiness enterprises such as tissue culture laboratory, plant/orchid nursery, agriculture farm.
- Track 2: CA in Agripharmatech Ethnopharmacognosy (CA A-EP): CA A-EP graduates are well equipped with knowledge and should be able to operate their own agribusiness enterprises such as plant-based product manufacturing, green pharmacy laboratory, food pharmacy enterprise, organic health food product/store, organic hydroponic/farm.

Note: WCC Chancellor, Vice Chancellor, Dean Division II and CA Agripharmatech Program Coordinator became members of the National Association for Community College Entrepreneurship (NACCE) in August 2011. NACCE supports entrepreneurship education and entrepreneurial leadership at the community college level. NACCE members have access to NACCE National Conferences, Resource Library, Press Promotion Services, Online Networking, Monthly Webinars etc. to promote the program and entrepreneurship careers nationwide.

2. Relationship of Objectives to WCC Mission and Strategic Plan

Windward Community College Mission

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O'ahu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment - inspiring students to excellence.

The proposed Certificate of Achievement in Agripharmatech: Track 1 - Plant Biotechnology and Track 2 - Ethnopharmacognosy will fulfill the following goals outlined in the WCC Mission Statement and Strategic Plan (Action Outcomes listed in parentheses):

- Contribute to the development of a highly skilled, high-wage workforce through the establishment of career-focused certificates that lead to employment in emerging fields (4.1)
- Establish partnerships with employers to create internships and job placement (4.2)
- Expand the curriculum to prepare students for critical workforce shortage areas (4.3)
- Create internships and service learning opportunities in the community (4.4)
- Promote the knowledge, skills, and opportunities that support current and emerging STEM fields and careers (4.5)
- Increase the number of transfers to the UH baccalaureate programs that lead to related occupations (4.6)
- Increase the number of certificates awarded in STEM fields (4.8)

3. Program Justification

A. Local and National Need

According to the USDA - NASS (United States Department of Agriculture – National Agricultural Statistics Service), there are 2296 farms on Oahu; 250 of which are certified plant/orchid nurseries, including tissue culture labs

(http://hawaii.gov/hdoa/pi/pq/nema_cert/nurseries-in-hawaii). Over 45 highly commercial biotechnology companies are operating in the Islands of Hawaii, and employ 1,700 Hawaii residents

(http://www.iowabiotech.com/econ_dev_reports/Hawaiibiotech99.pdf). Plant biotechnology has become a source of skilled jobs that pay higher than average wages. It is estimated that agricultural positions account for 70% of the State's biotechnology employment (http://www.ctahr.hawaii.edu/biotech/economic.html) (see Appendix D). An O NET OnLine Summary Report for Agripharmatech related occupations nationwide (including agribiotechnicians, microbiologists, bioprocessing, nutraceuticals, food pharmacy) in the United States projected a need of 41,000 additional employees by 2016 (http:// online.onetcenter.org/link/summary/19-4021.00). The following data for occupational employment and wage in Agripharmatech related fields in Hawaii (Oahu, Big Island, Maui, Kauai) are provided by the Bureau of Labor Statistics in May 2010 (http://www.bls.gov/oes/current/oes_HI.htm):

| | | Employment | Estimates | Wage | Estimates |
|--------------------|--|--------------|----------------------------|----------------|--------------------|
| Occupation Code | Occupation Title | Employment * | Location quotient ** | Mean Hourly | Mean Annual *** |
| 19-1012 | Food Scientists and Technologists | **** | **** | \$48.52 | \$100,930 |
| 19-1013 | Soil and Plant Scientists | 120 | 2.171 | \$33.48 | \$69,640 |
| 19-1022 | <u>Microbiologists</u> | 70 | 0.901 | \$29.32 | \$60,980 |
| 19-1029 | Biological Scientists, All Other | 270 | 2.005 | \$30.85 | \$64,160 |
| 19-1031 | Conservation Scientists | 90 | 1.111 | \$31.54 | \$65,600 |
| 19-1099 | Life Scientists, All Other | **** | **** | \$38.35 | \$79,780 |
| 19-4011 | Agricultural and Food Science Technicians | 240 | 3.122 | \$17.87 | \$37,170 |
| 19-4021 | Biological Technicians | 570 | 1.739 | \$14.71 | \$30,600 |
| 19-4092 | Forensic Science Technicians | 70 | 1.303 | \$25.01 | \$52,030 |
| 19-4093 | Forest and Conservation Technicians | 120 | 0.842 | \$19.06 | \$39,640 |

* Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

** The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

*** Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

**** Estimates not released.

B. Program History

Windward Community College already has a well–established Plant Biotechnology program, which offers an Academic Subject Certificate in BioResources & Technology: Plant Biotechnology (ASC BRT-PB), and has graduated an average of 6 – 7 students per year since 2003 (see Appendix 3). The graduates are trained in basic/applied sciences and research in botany, microbiology, orchidology, chemistry, cell and molecular biology, plant tissue culture, phytobiotechnology and ethnopharmacognosy. This knowledge/skill allows them to enter those occupations mentioned above. Biotechnology is listed as one of the emerging technical fields supported in the University of Hawaii Community College FB 2011-2013 Program Change Request (PCR) #2.

The Certificate of Achievement in Agripharmatech - Track 1: Plant Biotechnology (CA A-PB), and Track 2: Ethnopharmacognosy (CA A-EP) will replace the ASC BRT-PB. These two tracks are developed and proposed to provide more focused hands-on learning in specific fields, preparing students for immediate employment in the occupations mentioned above. The CA A-PB focuses on the study of plant/orchid tissue culture, plant molecular phylogenetic and genetic engineering. The CA A-EP focuses on study of plant-based pharmaceutical/nutraceutical product manufacturing.

C. Program Learning Outcomes

CA A-PB Learning Outcomes (students should be able to):

- 1. Cultivate and maintain plant growth
- 2. Identify plants (tropical plants and orchid species)
- 3. Demonstrate fluency in aseptic culture technique (microbial pure culture and plant tissue culture)
- 4. Operate laboratory equipment (using autoclave, gel electrophoresis, PCR machine, Particle Delivery/1000 Helium System, spectrophotometer, fluorescent microscopy, Gel Doc System)
- 5. Perform genetic engineering techniques/research (DNA/RNA extraction, electrophoresis, PCR reaction, DNA sequencing, gene transformation via bacteria and particle bombardment)
- 6. Perform alignment and analyze DNA sequence results (using Sequencher, PAUP, Finch TV software systems)
- 7. Follow standard ethics and regulations of biotech professionals, biosafety, chemical safety and intellectual property rights

CA A-EP Intended Outcomes (students should be able to):

- 1. Cultivate organically grown plants and maintain plant growth
- 2. Identify medicinal and nutritious plants
- 3. Conduct pharmaceutical and nutraceutical research
- 4. Operate laboratory equipment (autoclave, spectrophotometer, stereo microscope, anaerobic transfer chamber, rotary evaporator, distiller, Biacore Q system, HPLC)
- 5. Apply technology, management and marketing skills to become bioprocessing entrepreneurs
- 7. Follow standard ethics and regulations of biosafety, chemical safety and intellectual property rights

D. Curriculum

Track 1: Plant Biotechnology (total 24 credits)

A. One capstone class: 4 credits BOT 210 Phytobiotechnology (4) or BIOL 275/L Cell & Molecular Biology (4) B. Four required classes: 12 – 14 credits BOT 101 General Botany (4) or BIOL 172/L General Biology II/L (4) AG 152 Orchid Culture (3) or BOT 130 Plants in the Hawaiian Environment (4) MICRO 130 General Microbiology (3) or BIOL 171/L General Biology I/L (4) MICRO 140 General Microbiology Lab (2) C. Select two or three elective classes: 6 - 8 credits AG 149 Plant Propagation (3) BOT 160 Identification of Tropical Plants (3) BOT 199/299 Independent Study (1 - 4, with approval)CHEM 161/L General Chemistry I/L (4) or CHEM 151/L Elem Survey of Chemistry/L (4) CHEM 162/L General Chemistry II/L (4) or CHEM 152/L Survey of Organic/Bioorganic Chemistry (4) CHEM 199 Independent Study (1 - 4, with approval) CHEM 272/L Organic Chemistry/L (5) BIOL 275/L Cell & Molecular Biology (4)

Track 2: Ethnopharmacognosy (total 24 credits)

A. One capstone class: 4 credits BOT 205 Ethnobotanical Pharmacognosy (4) B. Four required classes: 12 - 14 credits BOT 160 Identification of Tropical Plants (3) or BOT 101 General Botany (4) or BIOL 172/L General Biology II/L (4) CHEM 161/L General Chemistry I/L (4) or CHEM 151/L Elem Survey of Chemistry/L (4) MICRO 130 General Microbiology (3) or BIOL 171/L General Biology I/L (4) MICRO 140 General Microbiology Lab (2) C. Select two or three elective classes: 6 - 8 credits AG 152 Orchid Culture (3) BOT 101 General Botany (4) BOT 105 Ethnobotany (3) BOT 130 Plants in the Hawaiian Environment (4) BOT 199/299 Independent Study (1 - 4, with approval)BIOL 171/L General Biology I/L (4) CHEM 162/L General Chemistry II/L (4) or CHEM 152/L Survey of Organic/Bioorganic Chemistry (4) CHEM 199 Independent Study (1 - 4, with approval) FSHN 185 Human Nutrition (3)

4. Description of Resources and Resources Required

In the existing ASC BRT-PB, there is 1 Botany/Microbiology professor, who is also the Coordinator of the Plant Biotechnology Program (.6 FTE), 1 Botany lecturer (.6 FTE), and 1 Microbiology lecturer (.6 FTE). The program coordinator's assigned time, student research internships and supplies needed to operate all plant biotech facilities have been supported through USDA-NIFA grants. Some lab equipment/supplies and undergraduate lab assistants have been funded through campus general funds.

An FB 11 - 13 Operating Budget Adjustment Request to the UH BOR for staffing and equipment for the new CA in Agripharmatech has been approved for funding the following (see Appendix 8):

1). A Plant Molecular Biology Instructor (\$55,344)

A request of 1 FTE Plant Molecular Biology Instructor to teach capstone classes such as BIOL 275/275L (Cell & Molecular Biology/Lab), BOT 210 (Phytobiotechnology), BOT 199/299 (Plant molecular phylogenetic research), as well as courses (BOT 101, MICRO 130, MICRO 140) required to fulfill the CA in Plant Biotechnology. These classes are transferable to UHM and other higher degree institutions, fulfilling biological requirements for Plant Biotechnology, General Biotechnology, Microbial Biotechnology, Molecular Biosciences and Bioengineering, Plant Molecular Phylogenetics, Horticulture, Biology and Pre-med.

- 2). A full time Lab Technician (\$45,000) Highly complex lab preparations and tremendous time are required to prepare laboratories for courses such as BIOL 275L, BOT 210, BOT 205, MICRO 140, and AG 152. A lab technician with molecular biology, chemistry, plant tissue culture and microbiology work experience/training background is needed to help prepare those lab courses.
- 3). A full time Garden Technician to maintain the Bioprocessing Medicinal Garden Complex (BMGC) (\$35,000).

Currently the BMGC is maintained by a casual/overload hired Agriculture Technician (6 hours/week/8 months) and one student intern (3 hours/week/regular semester) paid through USDA-NIFA. The BMGC consists of 3 sub-facilities (the medicinal garden, the aquaponic system, and the bioprocessing facility), which require maintenance by a special BMGC technician. The medicinal garden must be weeded (by hand), mulched, tilled, and watered regularly to keep up with fast growing weeds and to maintain healthy growth of plants in an organic growth environment. Medicinal and nutritious plants are studied by botany and agriculture students. Organically grown plants are utilized in nutraceutical research for the BOT199/299 and BOT 205 lab practicum.

The organic hydroponic system requires cleaning and maintenance. Lab equipment in the bioprocessing facility needs to be serviced and maintained in working order.

4). Recruitment Specialist

A recruitment specialist is necessary to recruit/introduce high school and freshman college students to CA programs and encourage them to take classes listed in the programs and to receive certificates. This program offers excellent career pathways,

promising high paying jobs and transferable credits to higher institutions. Marketing tools including newspaper advertisements, TV, *Windward Malamalama, Ka 'Ohana*, websites, flyers, posters, PowerPoint presentations, special student activities and exhibits and class/school visitations are also part of the recruitment efforts that have to be integrated more actively and effectively.

This person (Counselor and Agripharmatech Student Intern) might be assigned by the Vice Chancellor of Student Affairs.

5). Lab equipment

Request to purchase CO_2 anaerobic chamber, cellometer, RT-PCR, DNA profile imaging system, DNA sequencher software system and warranty/maintenance fees (total \$150,000). \$20,000 per year has been approved by the BOR for FY 12 – 17.

The Agripharmatech program will continue utilizing the existing 4 plant biotech facilities: the Kuhi La'au – Tropical Plant and Orchid Identification Facility (Imiloa room 112-A), the Tissue Culture and Plant Biotechnology Laboratory (Imiloa room 101-A), the Climate-controlled Greenhouse (rear side of Imiloa), the Bioprocessing Medicinal Garden Complex (across from Imiloa); and lecture/lab rooms (Hale Imiloa rooms 101 and 106). These are facilities presently used for the ASC Plant Biotechnology program.

5. Five-Year Business Plan

The proposed Certificate of Achievement in Agripharmatech (2 tracks: Plant Biotechnology, and Ethnopharmacognosy) will fulfill the goal outlined in the WCC Mission Statement and Strategic Plan: to promote the knowledge, skills, and opportunities that support current and emerging STEM fields and careers. It is planned that WCC will produce at least 186 STEM graduates per year by 2015. The college projects that within three years each of the CA tracks will have an annual enrollment of 11 students, with a total of 22 graduates annually. These programs concentrate on workforce development and student transfer to higher degrees, providing STEM education in targeted fields, which have high job placement.

The Plant Biotechnology Program (including facilities, student internships, and reassigned time for the Program Coordinator) has been supported through USDA-NIFA grants since 2000. This Alaskan Native/Native Hawaiian (AN/NH) consortium grants will most probably continue for another five years. Lab supplies and the undergraduate lab assistant will continue to be funded by the college.

See the following narrative and table of Academic Cost and Revenue for provisional years 2012 – 2013 and 2013 – 2014 (see also Appendix E):

B. Annual SSH:

Includes Fall and Spring total head counts in classes listed in CA Agripharmatech (Track 1: Plant Biotechnology, and Track 2: Ethnopharmacognosy)

C. Instructional cost w/o fringe:

It is projected that a maximum of 70 credits/year are associated with the two CA Agripharmatech tracks: 54 credits will be taught by two FT faculty (= 2.0 FTE);

and 16 credits will be taught by lecturers (= 0.6)

- D. Other personnel cost (total \$53,858): One Lab Technician: 1.0 FTE = \$45,000 One Student Lab Assistant: 28 hours/year = \$1,358 One Garden Technician: \$4,000 (this cost is offset by the USDA-NIFA grant) Student helpers and interns: \$2,000 (this cost is offset by the USDA-NIFA grant) Two persons assisting in the publication of the Ethnopharmacognosy Series at \$750 each (this cost is offset by the USDA-NIFA grant)
- E. Unique program cost (total \$39,000):
 \$20,000 (lab supply), \$9,000 equipment maintenance fees, \$10,000 travel cost to attend scientific conferences (the total cost is partially offset by the USDA-NIFA grant)
- H. Other sources of revenue: It is based on \$108,579 from the USDA-NIFA Consortium grant FY 11 – 12
- K1. Total salary FT faculty/lecturers: It is based on two (rank 4 @ \$66,576 in FY 2011) FT faculty members' average annual salaries, plus 4% salary increase per year
- K3. Total salary PT lecturers: It is based on Step 2 Instructor's credit/hour salary (\$1,518 per credit hour in FY 2011) x 16 credits, plus 4% salary increase per year
- L. Non-instructional expenditure/SSH: \$277

| | | Description | Varee |
|--------------------------------------|--|----------------------|--------------------|
| | | I TUVISIOILAI | I Cals |
| ENTER ACADEMIC YEAR (i.e., 2011-2 | 2012) | · Year 1 (2012-2013) | Year 2 (2013-2014) |
| Students & SSH | A. Headcount enrollment (Fall) | 18 | 20 |
| | B. Annual SSH | 2,287 | 2,300 |
| Direct and Incremental Program | C. Instructional Cost without Fringe | \$163,738 | \$170,287 |
| Costs W/O Fringe | C1. Number (FIE) of FT Faculty/Lecturers | 2.00 | 2.00 |
| | C2. Number (FIE) of PT Lecturers | 0.60 | 0.60 |
| | D. Other Personnel Costs | \$53,858 | \$53,858 |
| | E. Unique Program Costs | \$39,000 | \$39,000 |
| | F. Total Direct and Incremental Costs | \$256,596 | \$263,145 |
| Revenue | G. Tuition | \$230,987 | \$243,800 |
| | Tuition rate per credit | \$101 | \$106 |
| | H. Other | \$108,000 | \$108,000 |
| | I. Total Revenue | \$338,987 | \$351,800 |
| I. Net Cost (Revenue) | | -82,391 | -88,655 |
| Program Cost per SSH W/ Fringe | K. Instructional Cost with Fringe/SSH | \$93 | 26\$ |
| | K1. Total Salary FT Faculty/Lecturers | \$138,478 | \$144,017 |
| | K2. Cost Including Fringe of K1 | \$186,945 | \$194,423 |
| | K3. Total Salary PT Lecturers | \$25,260 | \$26,270 |
| | K4. Cost Including fringe of K3 | \$26,523 | \$27,584 |
| | L. Support Cost/SSH | \$318 | \$318 |
| | Non-Instructional Exp/SSH | \$277 | \$277 |
| | System-wide Support/SSH | \$41 | \$41 |
| | Organized Research/SSH | * | |
| | M. Total Program Cost/SSH | \$411 | \$415 |
| | N. Total Campus Expenditure/SSH | \$457 | \$457 |
| Instruction Cost with Fringe per SSH | K. Instructional Cost/SSH | \$93 | \$97 |
| | O. Comparable Cost/SSH | \$551 | \$551 |
| Program used for comparison: | KCC Health Service Tech | | |

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6. Impact on Current Courses or Programs

Courses that are already listed and offered in the ASC BRT-PB (26 credits) have been reselected and readjusted appropriately to emphasize the major focus of each of the new CA tracks (24 credits). This course adjustment will provide directed career/educational pathways with more in-depth hands-on learning, and fewer credit requirements, thus, allowing for faster graduation, immediate employment and seamless credit transfer to higher degree institutions.

It is projected that the head count enrollment for majors in both CA tracks will continue to increase from 16 in FY 11 – 12, 18 in FY 12 – 13, 20 in FY 13 – 14 to 22 in FY 14 – 15 due to aggressive marketing and recruiting efforts by the Recruitment Specialist and/or student interns. The SSH in classes listed in both tracks will also increase annually by approximately 2% (2,287 in FY12 –13; 2,300 in FY 13 – 14; 2,350 in FY 14 – 15). The American School Search reported that the graduation rate (AA in Liberal Arts) at Windward Community College is 10% and "transfer out" rate is 31% (<u>http://www.american-school-search.com/review/windward-community-college</u>). Based on this calculation, approximately 230 AA graduates and 710 "transfer out" students would have taken at least one or two science classes listed in the program tracks in 2012 – 2013. See the list of courses for CA A-PB and CA A-EP in Appendix 9, and course descriptions in Appendix 10.

A continuous increase in student enrollment will not impact other science programs, but will impact the natural science lecture and laboratory space, particularly Hale Imiloa 106. Currently the room is shared among MICRO 140, BOT 205, BOT 210, BIOL 275/275L, BIOL 171L and BIOL 172L. Funding will be sought to renovate Hale Imiloa 123 from an existing lecture/semi-lab room into a full wet lab to be used for BIOL 171L and BIOL 172L. This high priority budget request will be proposed for FY 11 – 12.

Note: Hale Imiloa 123 already has plumbing (3 sinks, a shower and an eyewash) and electrical systems (a fume hood and electrical outlets along stations on both sides of the wall) in place.

7. Evidence of Commitment/Support

The main courses, including capstone courses listed in both tracks of the CA in Agripharmatech, are botany and microbiology courses that have been developed and offered since 2002 by the ASC – PB Program Coordinator, who is a Professor of Botany and Microbiology and also a Co-Project Director of the USDA-NIFA Consortium grant. This individual will continue to be responsible for both CA tracks. Eventually, there will be a full time faculty member in charge of each track. The CA Agripharmatech program is supported by WCC administrators, the Department Chair, as well as botany, microbiology, chemistry, agriculture, biology and human nutrition instructors in the WCC Department of Natural Sciences.

Student transfer and research collaboration across the UH system has been established with the Department of Molecular Biosciences and Bioengineering, the Department of Tropical Plant and Soil Sciences, the Botany Department, the Department of Cell and Molecular Biology, and the Department of Biology at UHM. This collaboration also exists with the College of Agriculture, Forestry and Natural Resource Management at UHH. Research partnerships/internships have also been developed with biotech companies including the Hawaii Agriculture Research Center, the Pioneer Hi-Bred International Inc., Monsanto Inc., Cardax Pharmaceuticals and many other plant/orchid nurseries/farms. See letters of support in Appendix 11.

8. Measure of Program Efficiency

Program efficiency will be measured using the following indicators. Goals for each indicator are listed in parenthesis:

- Number of students registering for the certificates (22)
- Course fill rate (85%)
- Number of core courses (capstone and required classes for both tracks) taught per year (13)
- Percent of students entering workforce (50%)
- Percent of students transferring to higher degrees (50%)
- Percent of students becoming agribusiness and agribioprocessing entrepreneurs (20%)
- Number of students meeting certificate requirements within 18 months (10)

9. Measure of Program Effectiveness

Program effectiveness will be measured by the following indicators. Goals for each indicator are listed in parenthesis:

- Placement of certificate-holders into industry related positions (80% within 12 months of certificate completion) or
- Increase in mean wage for those already working in the field (mean wage > 20% within 12 months of program completion) or
- Performance and retention of certificate-holders in industry related fields or
- Satisfactory rating of certificate-holders, and employers with the quality of the program (80% satisfied with the program) or
- Transfer retention in higher degree institutions in program related field (50%)

Program outcomes will be measured by:

- Student learning outcomes assessment
- Program (review) outcome assessment
- Student evaluations
- Course completion rates
- Follow-up surveys of students and employers

Appendix 1. Four plant biotechnology facilities and lab equipment



Tissue Culture and Plant Biotechnology Facility



Bioprocessing Medicinal Garden Complex



Climate-controlled greenhouse



Kuhi La'au - Tropical Plant and Orchid Identification Facility

Appendix 2. Academic Subject Certificate in Bio-Resource & Technology: Plant Biotechnology (ASC BRT-PB)



Plant Biotechnology



The Bio-Resources and Technology– Plant Biotechnology Academic Subject Certificate prepares students for careers in biotechnology and qualifies them to transfer to bachelor of science degree programs.

Knowledge in plant biotechnology will be an asset in bioproduct manufacturing, assuring safe food and medicinal production.

Plant biotechnology can lead to developing better food supplies, saving endangered plant species, fighting disease and strengthening strains of native plants.

Students have the rare opportunity to do hands-on research early in their college careers through WCC's Tissue Culture and Plant Biotechnology Lab, Plant and Orchid Identification Facillity, climate-controlled greenhouse and the Biopro cessing Medicinal Complex Garden.

Students can qualify for work as plant biotechnologists in this growing field or transfer to a bachelor of science degree program with majors in biotechnology, agriculture, horticulture, botany, aquaculture, pharmacy or pre-medicine.

This certificate consists of 26 credits. See course descriptions for prerequisites.

Required Courses (16 credits)

| BOT 101 | General Botany (4) <u>OR</u> | | | | | |
|----------------------|---|--|--|--|--|--|
| BIOL 171/171L | General Biology I and Lab (4) | | | | | |
| BOT 160 | Identification of Tropical Plants (3) OR | | | | | |
| BOT 130 | Plants in the Hawaiian Environment (4) | | | | | |
| BOT 210 | Phytobiotechnology (4) <u>OR</u> | | | | | |
| BIOL 275/275L | Cell and Molecular Biology and Lab (4) OR | | | | | |
| BOT 205 | Ethnobotanical Pharmacognosy (3) | | | | | |
| MICRO 130 | General Microbiology (3) | | | | | |
| MICRO 140 | General Microbiology Lab (2) | | | | | |
| Electives (10 cree | dits) | | | | | |
| AG 149 | Plant Propagation (3) | | | | | |
| AG 152 | Orchid Culture (3) | | | | | |
| BIOL 275 | Cell and Molecular Biology (3) | | | | | |
| BIOL 275L | Cell and Molecular Biology Laboratory (1) | | | | | |
| BOT 105 | Ethnobotany (3) | | | | | |
| BOT 130 | Plants in the Hawaiian Environment (4) | | | | | |
| BOT 199/299 | Independent Study or | | | | | |
| | Summer Field Study Abroad (1-4) | | | | | |
| BOT 205 | Ethnobotanical Pharmacognosy (4) | | | | | |
| CHEM 151 or CHEM 161 | | | | | | |
| CHEM 152 or CHEM 162 | | | | | | |
| CHEM 151L or CH | EM 161L | | | | | |
| CHEM 152L or CH | EM 162L | | | | | |
| FSHN 185 | Human Nutrition (3) | | | | | |
| GIS 150 | Introduction to GIS/GPS (3) | | | | | |
| | | | | | | |

For more information, contact Dr. Inge White at 808-236-9102 or ingelia@hawaii.edu.

Visit us at windward.hawaii.edu

| Number | Name | 4-Year Degrees | Occupations |
|----------|-----------------------|--|----------------------------------|
| 1 | Erin Yafuso | Received M.Sc MBBE - UHM | Workforce: WCC lecturer |
| 2 | Natallie Kong | Received MSc MBBE & Medical Doctor - UHM | |
| 3 | Anolani Badua | Received Doctor of Pharmacy-Loma Linda Univ. | Workforce: Pharmacy |
| 4 | Gregory Osterman | Received B.Sc Biology - UHH | Workforce |
| 5 | William Gray | Received M.D. | Entrepreneur |
| 6 | Brandon Pualoa | | Entrepreneur |
| 7 | Marcia Diver | | Entrepreneur |
| 8 | Jamie Iwamoto | Pursuing B.Sc Botany - UHM | Entrepreneur |
| 9 | Waiete Williams | Pursuing B.Sc TPSS - UHM | Entrepreneur |
| 10 | Tracy Peters | Pursuing B.Sc Biology - UHM | |
| 11 | Kristin Takaba | Pursuing B.Sc Bioinformatics - UHM | |
| 12 | Cheyne Somera | | Entrepreneur |
| 12 | Shara Chamban | Pursuing B.Sc Forensic Science - Chaminade | |
| 15 | Shane Chambers | 0. | W/ IC N/ M |
| 14 | Pamela Gribbins | | Workforce: Nursery Manager |
| 15 | Brian Freed | Pursuing B.Sc Horticulture - California | Workforce |
| 16 | Monica Young | | Workforce: Syngenta Co. |
| 1/ | Jessica Curry | Received B.Sc Microbial Biotech - UHM | Workforce: Pioneer HI-Bred Int. |
| 18 | Darin Chung | Pursuing B.Sc Nursing | Workforce: Nurse |
| 19 | Micole Sakaida | Pursuing B.Sc Dental Hygiene - UHM | W7 1.6 |
| 20 | Kimberley Chinen | Received B.Sc Biology - UHM | Workforce |
| 21 | Cassandra Brandt | | Workforce: School teacher, FL |
| 22 | Kimberly Ching | Pursuing B.Sc Botany - UHM | W/ IC D I'' |
| 23 | Amber Lateno | Received B.Sc TPSS - UHM | Workforce: Research intern |
| 24 | Helen Shaudy | Received B.Sc Art & Education - UHM | Entrepreneur |
| 25 | Alisa Sheriff | Received B.Sc Biochemistry - HPU | W7 1.6 |
| 26 | | Pursuing B.Sc TPSS- UHM | Workforce |
| 27 | Kawan Pali | | Workforce: WCC |
| 28 | Payten Purdy | | Entrepreneur |
| 29 | Barbara Davis | Received B.A. Accounting | Workforce: Nurse |
| 50 21 | Jaridan Choy | Pursuing B.Sc Ethnobotany & Nursing, UHM | W7 1.6 |
| 31 | Justin Long | Pursuing B.Sc, TPSS, UHM | Workforce |
| 32 22 | Jamie Yee | Pursuing B.Sc. 1PSS, UHM | |
| 33 24 | Javier Estrada | Pursuing B.Sc. MBBE, UHM | Entrepreneur |
| 34 | Jon Shimabukuro | Pursuing B.Sc. MBBE, UHM | Workforce: USDA – AG Inspector |
| 55 26 | Ikaika Dilliner | Pursuing B.Sc in Pharmacy, UHH | |
| 36 | Mark Rosskopf | Pursuing pre-med, UHM | Workforce: Kaiser Medical Center |
| 3/ | Carmen Jimenez | Pursuing Horticulture, TPSS - UHM | Entrepreneur |
| 38 | John Murry | Pursuing Microbiology, MBBE - UHM | |
| 39 | Adrienne Ziegler | Pursuing AG Business/Social Science, UHM | |
| 40 | Michael Cervantez * | Pursuing Horticulture degree, UHH | |
| 41 | Kevin Mason | Pursuing Biotechnology, Oregon | |
| 42 | Abby Kualapai | | Ko'olau Farmers |
| 43 | Nyan Stillwell | Pursuing TPSS degree, UHM Pursuing Ethnobotany & Hawaiian Studies | |
| 44 | Carden Vincent | UHM | |
| 45 | Lorna Uehara-Tilton * | | Workforce |

Appendix 3. Academic Subject Certificate – Plant Biotechnology graduates, Spring 2002 – Summer 2011

* Delayed graduation

Appendix 4. Plant Biotechnology research posters



Last, C. A. 1975. The St. The See: Viel. Botas Phillips, A. and C. Sill, (9), 9(3 – 914. Rose, J. and L. Rose. 200 Digart, Vol. 499. (1), 10 Standar, D.J. and W.J. W. 1946 – 1960, Vol. 31 of Orchid Histords Lyp. 725-738.

Agrobacterium-Mediated Transformation of Brassolaeliocattleya Raye Holmes 'Mendenhall' Protocorm-Like Bodies to Confer **Resistance to Cymbidium Mosaic Virus**

Alisa Sheriff¹, Kimberley Chinen¹, Heather McCafferty², Yun J. Zhu², Fengyong Zhou², and Ingelia White⁴ ¹University of Hawaii - Windward Community College, in ²Hawaii Agriculture Research Center





Materials and Methods

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Appendix 5. Ethnopharmacognosy research publications





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Pharmaceutical and Nuclear sources of HONOHONO ORCHID Torresonance of Advances Income to Advances Income to Advances Income to Advances Income to Advances

| 11.D.3. | Intended Koles | Plant biotechnologist, microbial biotechnologist. tissue culturist, assistant researcher in plant biological sciences, orchid molecular phylogeneticist/taxonomist/hybridizer, plant biology teach plant nursery manager, plant identification specialist, plant conservationist, horticulturist, botani agriculture inspector. | | Intended Outcomes | Cultivate and maintain plant growth I. Cultivate and maintain plant growth Identify plants (tropical plants and orchid species) Demonstrate fluency in aseptic culture technique (microbial pure culture and plant tissue cult Operate laboratory equipment Operate laboratory equipment Operate laboratory equipment Evertophotometer, fluorescent microscopy, Gel Doc System) Perform genetic engineering techniques/research (DNA/RNA extraction, electrophoresis, Pleretion, DNA sequencing, gene transformation via bacteria and particle bombardment) Perform alignment and analyze DNA sequence results (using Sequencher, PAUP, Finch TV software systems) Follow standard ethics and regulations of biotech professionals, biosafety, chemical safety and intellectual property rights |
|----------------------------|---------------------------------|---|--|---------------------|---|
| Training the second second | Institutional Mission Statement | Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique beritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O'abu's Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment - inspiring students to excellence. Institutional Action Outcomes | 1. Increase diversity of programs offered to | underserved regions | 2. Contribute to the development of a highly-skilled, and highly-wage workforce 3. Establish partnerships with employers to create internships 4. Promote knowledge/skills and certificates in STEM fields 5. Increase transfer to UH baccalaureate programs 5. Increase transfer to UH baccalaureate programs 7. Program Mission To prepare students for carrers in plant biotechnology and to qualify them for transfer to BS degree programs in biosciences |

Appendix 6a. Agripharmatech: Plant Biotechnology program review



Appendix 6b. Agripharmatech: Plant Biotechnology program map

Appendix 7a. Agripharmatech: Ethnopharmacognosy program review



Appendix 7b. Agripharmatech: Ethnopharmacognosy program map



Appendix 8. FB 11 -13 Operating budget adjustment request



| with 2 tracks Plant Biotechnology Ethnopharmacegnosy 1 capstone class BOT 210 Phytobiotechnology (4) BOT 205 Ethnobotanical Pharma 4 credits) or BIOL 275/L Cell & Molecular Biology (4) BOT 205 Ethnobotanical Pharma 4 credits) or BIOL 275/L Cell & Molecular Biology (1/L BOT 101 General Botany (4) 12 - 14 credits) or BIOL 172/L General Biology I/L (4) BOT 101 General Biology I/L (4) 12 - 14 credits) AG 152 Orchid Culture (3) or BOT 101 General Biology I/L (4) 12 - 14 credits) AG 152 Orchid Culture (3) or BOT 101 General Biology I/L (4) AncRO 130 General Biology I/L (4) or BOT 171/L General Biology I/L (4) or BIOL 171/L AncRO 140 General Biology I/L (4) or BIOL 171/L General Biology I/L (4) or BIOL 171/L All BOT 160 Identification of Tropic or BIOL 171/L General Biology I/L (4) or BIOL 171/L General Microbiology Lab(2) MICRO 140 CrHEM 161/L General Biology I/L (4) or BIOL 171/L General Biology I/L (4) <th>CA program</th> <th></th> <th>CA Agripharmatech</th> <th>(24 credits)</th> <th></th> | CA program | | CA Agripharmatech | (24 credits) | |
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| 1 capstone class BOT 210 Phytobiotechnology (4) BOT 205 Ethnobotanical Pharma (4 credits) or BIOL 275/L Cell & Molecular Biology (4) BOT 205 Ethnobotanical Pharma (4 credits) or BIOL 275/L Cell & Molecular Biology (4) CHEM 161/L General Chemistry I/L (4) 7 ropic or BIOL 172/L General Biology II/L (4) or CHEM 151/L General Biology II/L (4) 0 r BIOL 172/L General Biology II/L (4) or BIOL 172/L General Biology II/L (4) or BIOL 172/L 0 r BIOL 171/L General Biology I/L (4) or BIOL 172/L General Biology II/L (4) or BIOL 172/L 0 r BIOL 172/L General Biology I/L (4) or BIOL 172/L General Biology I/L (4) or BIOL 172/L 0 r BIOL 172/L General Biology I/L (4) or BIOL 172/L General Biology I/L (4) or BIOL 172/L 0 r BIOL 172/L General Microbiology (3) or BIOL 172/L General Biology I/L (4) or BIOL 172/L 0 r BIOL 172/L General Biology I/L (4) or BIOL 172/L General Biology I/L (4) or BIOL 172/L 0 r BIOL 171/L General Microbiology (1/L (4) MICRO 140 General Biology I/L (4) 0 r BIOL 171/L | with 2 tracks | 24 | Plant Biotechnology | Eth | nopharmacognosy |
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| or BIOL 171/L General Biology I/L (4) or BIOL 171/L General Biology I/L (4) MICR0 140 General Microbiology Lab (2) MICR0 140 General Biology I/L (4) 2 - 3 elective BOT 160 Identification of Tropical Plants (3) BOT 105 Ethnobotany (3) 2 - 3 elective BOT 199/299 Independent Study (1-4,w/ appr.) BOT 199/299 Independent Study (1-4) (6 - 8 credits) CHEM 199 Independent Study (1 - 4) BOT 109/299 Independent Study (1-4) (6 - 8 credits) CHEM 199 Independent Study (1 - 4) BOT 101 General Botany (4) (a 149 Plant Propagation (3) BOT 101 General Botany (4) CHEM 157/L General Botany (4) or CHEM 151/L General Chemistry I/L (4) BOT 101 General Botany (4) General Botany (4) or CHEM 152/L General Chemistry I/L (4) BOT 101 General Botany (4) General Botany (1) or CHEM 152/L General Chemistry I/L (4) BOT 103 Plants in the Hawaiian General Botany (4) | | MICRO 130 | General Microbiology (3) | MICRO 130 | General Microbiology (3) |
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| 2 - 3 elective BOT 160 Identification of Tropical Plants (3) BOT 105 Ethnobotany (3) 2 - 3 elective BOT 199/299 Independent Study (1-4,w/ appr.) BOT 199/299 Independent Study (1-4,w/ appr.) (6 - 8 credits) CHEM 199 Independent Study (1 - 4) BOT 199/299 Independent Study (1 - 4) (6 - 8 credits) CHEM 199 Independent Study (1 - 4) BOT 109 Ethnobotany (3) (7 199 Independent Study (1 - 4) BOT 101 BOT 101 General Botany (4) AG 149 Plant Propagation (3) BOT 101 General Botany (4) Independent Study (1 - 4) Or CHEM 161/L General Chemistry I/L (4) AG 152 Orchid Culture (3) Orchid Culture (3) CHEM 162/L General Chemistry/L (4) AG 152 Orchid Culture (3) Orchid Culture (3) Or CHEM 152/L Survey of Org/Bioorg Chemistry/L (5) PSHN 185 Human Nutrition (3) DIOU 272/L Organic Chemistry/L (5) PION 177/L Caneral Shoorg Chemistry/L (4) | | MICRO 140 | General Microbiology Lab (2) | MICRO 140 | General Microbiology Lab (2) |
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| classesBOT 199/299Independent Study $(1-4,w/appr.)$ BOT 199/299Independent Study $(1-4)$ $(6 - 8 \operatorname{credits})$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(6 - 8 \operatorname{credits})$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(6 - 8 \operatorname{credits})$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(6 - 8 \operatorname{credits})$ $(Directed Research for track 1)$ $(Directed Research for track 1)$ $(Directed Research for 1)$ $AG 149$ $Plant Propagation (3)$ $BOT 101$ $(Directed Research for 1)$ $(Directed Research for 1)$ $AG 149$ $Plant Propagation (3)$ $BOT 101$ $(Directed Research for 1)$ $(Directed Research for 1)$ $AG 120$ $OrtHEM 151/L$ $General Chemistry I/L (4)$ $AG 152$ $Orchid Culture (3)$ $Or CHEM 162/L$ $General Chemistry II/L (4)$ $Or CHEM 162/L$ $General Chemistry II/L (5)$ $Or CHEM 152/L$ $Organic Chemistry/L (5)$ $Or CHEM 152/L$ $Orrehid Sulver 1/I (4)$ $Or CHEM 272/L$ $Organic Chemistry/L (5)$ $Or CHEM 152/L$ $Or CHEM 1000000000000000000000000000000000000$ | 2 - 3 elective | BOT 160 | Identification of Tropical Plants (3) | BOT 105 | Ethnobotany (3) |
| (6 - 8 credits) (Directed Research for track 1) (Directed Research for track 1) (1) CHEM 199 Independent Study (1 - 4) (Directed Research for Lad (1 - 4)) (1) CHEM 199 Independent Study (1 - 4) (Directed Research for Lad (1 - 4)) (1) AG 149 Plant Propagation (3) (Directed Research for Lad (1 - 4)) (1) CHEM 161/L General Chemistry I/L (4) (Dor 100 (2) CHEM 152/L General Chemistry I/L (4) (Directed Research for General Botany (4)) (2) CHEM 162/L General Chemistry I/L (4) (Dor 130 Plants in the Hawaiian (2) Or CHEM 152/L General Chemistry I/L (4) AG 152 Orchid Culture (3) (2) Or CHEM 152/L Organic Chemistry I/L (4) Or CHEM 152/L Survey of Org/Bioorg (3) (2) Or CHEM 152/L Organic Chemistry L (5) PRIN 185 Human Nutrition (3) (2) Drivi 277 Dir 8.Molocular Biology (4) PRIN 171/L General Biology (1/L | classes | BOT 199/299 | Independent Study (1-4,w/ appr.) | BOT 199/299 | [independent Study (1 - 4,w/ appr) |
| CHEM 199Independent Study (1 - 4)CHEM 199Independent Study (1 - 4)AG 149Plant Propagation (3)BOT 101General Botany (4)AG 149Plant Propagation (3)BOT 101General Botany (4)AG 149Plant Propagation (3)BOT 101General Botany (4)AG 151/LGeneral Chemistry I/L (4)AG 152Orchid Culture (3)or CHEM 152/LGeneral Chemistry II/L (4)AG 152Orchid Culture (3)or CHEM 152/LSurvey of Org/Bioorg Chemistry (1)AG 152Orchid Siloorg CCHEM 272/LOrganic Chemistry/L (5)Plant 152/LSurvey of Org/Bioorg CDroit 272/LOrganic Chemistry/L (5)Plant 152/LSurvey of Org/Bioorg CDroit 272/LOrganic Chemistry/L (5)Plot 171/LCeneral Richom 171 (4)Droit 272/LOrganic Chemistry/L (5)Plot 171/LCeneral Richom 171 (4) | (6 - 8 credits) | | (Directed Research for track 1) | | (Directed Research for track 2) |
| AG 149 Plant Propagation (3) BOT 101 General Botany (4) CHEM 161/L General Chemistry I/L (4) BOT 130 Plants in the Hawaiian or CHEM 151/L General Chemistry I/L (4) BOT 130 Plants in the Hawaiian or CHEM 152/L General Chemistry II/L (4) AG 152 Orchid Culture (3) or CHEM 152/L General Chemistry II/L (4) AG 152 Orchid Sulture (3) or CHEM 152/L Organic Chemistry/L (5) CHEM 152/L Survey of Org/Bioorg Chemistry II/L Orthem 272/L Organic Chemistry/L (5) Plant 162/L Survey of Org/Bioorg Chemistry II/L Divit 272/L Organic Chemistry/L (5) Plant 152/L Survey of Org/Bioorg Chemistry II/L | | CHEM 199 | Independent Study (1 - 4) | CHEM 199 | Independent Study (1 - 4) |
| CHEM 161/L General Chemistry/L (4) BOT 130 Plants in the Hawaiian or CHEM 151/L Elem Survey of Chemistry/L (4) AG 152 Orchid Culture (3) or CHEM 162/L General Chemistry II/L (4) AG 152 Orchid Culture (3) or CHEM 152/L General Chemistry II/L (4) Orchid Culture (3) or CHEM 152/L Survey of Org/Bioorg Chemistry (1) or CHEM 152/L Survey of Org/Bioorg Chemistry (1) CHEM 272/L Organic Chemistry/L (5) FSHN 185 Human Nutrition (3) Droit 275/L Coll 8. Molecular Biology (4) PIOL 171/L General Riology (1) (A) | | AG 149 | Plant Propagation (3) | BOT 101 | General Botany (4) |
| or CHEM 151/L Elem Survey of Chemistry/L (4) AG 152 Orchid Culture (3) CHEM 162/L General Chemistry II/L (4) CHEM 162/L General Chemistry II/L or CHEM 152/L Survey of Org/Bioorg Chemistry (4) or CHEM 152/L Survey of Org/Bioorg C CHEM 272/L Organic Chemistry/L (5) FSHN 185 Human Nutrition (3) DIOL 275 /I Coll 8. Molecular Biology (4) PIOL 171 /I Ceneral Riology 171 (4) | | CHEM 161/L | General Chemistry I/L (4) | BOT 130 | Plants in the Hawaiian Env (4) |
| CHEM 162/L General Chemistry II/L (4) CHEM 162/L General Chemistry II/L or CHEM 152/L Survey of Org/Bioorg Chemistry (4) or CHEM 152/L Survey of Org/Bioorg C CHEM 272/L Organic Chemistry/L (5) FSHN 185 Human Nutrition (3) DIOL 275 /I Coll 8. Molecular Biology (4) BIOL 171 /I Ceneral Riology 1/I | | or CHEM 151/L | . Elem Survey of Chemistry/L (4) | AG 152 | Orchid Culture (3) |
| or CHEM 152/L Survey of Org/Bioorg Chemistry (4) or CHEM 152/L Survey of Org/Bioorg C CHEM 272/L Organic Chemistry/L (5) FSHN 185 Human Nutrition (3) DIOL 275 /I Call 8. Molecular Biology (4) BIOL 171 /I Centeral Biology 1/I | | CHEM 162/L | General Chemistry II/L (4) | CHEM 162/L | General Chemistry II/L (4) |
| CHEM 272/L Organic Chemistry/L (5) FSHN 185 Human Nutrition (3) BIOL 275 /L Call & Molecular Biology (4) BIOL 171 /L Canaral Biology 171 (4) | | or CHEM 152/L | . Survey of Org/Bioorg Chemistry (4) | or CHEM 152/L | Survey of Org/Bioorg Chemistry (4) |
| DIAL 27E /I Call & Molacular Biolomy (4) BIAL 171 /I Canaral Biolomy 1/1 (4) | | CHEM 272/L | Organic Chemistry/L (5) | FSHN 185 | Human Nutrition (3) |
| | | BIOL 275/L | Cell & Molecular Biology (4) | BIOL 171/L | General Biology I/L (4) |

Appendix 9. Course list for CA A-PB and CA A-EP

| Course # and Title | Credits | Prerequisites | Course Description |
|--|---------|---|--|
| BOT 101 - General Botany | 4 | High school biology | Introduction to plant structure, function, reproduction, and evolution; plants in relation to the environment and human activities. Lecture/laboratory/field trip course. DB/DY |
| BOT 105 - Ethnobotany | 3 | None | The scientific study of the interaction between human culture and plants, including the interrelationship of botany, socio-economics, belief systems and history that have shaped the cultural uses of plants in Hawaii, as well as Asia or the Pacific. Lecture/field trip course with service-learning option. DS |
| BOT 130 - Plants in Hawaiian Environment | 4 | None | Introduction to the evolution of plant communities and species of Hawaiian ecosystems; ecological interactions; observations, identification and systematics of native and introduced flora. Lecture/laboratory/field trip course. DB/DY |
| BOT 160 - ID of Tropical Plants | 3 | None | Nontechnical course in identification of common plants of tropics; includes native and introduced flora. DB |
| BOT 199/299V - Independent Study | 1 - 4 | Under supervising instructor's and/or co- advisor's expertise | An independent study project could take the form of directed reading, research, or fieldwork. It is designed to meet individual needs, and interests to continue an in- depth study of a particular topic that is appropriate to the student's program of study, or related to the existing college curriculum DY |
| BOT 210 – Phytobiotech nology | 4 | BOT 101, or AG 152, or MICR 130 and MICR 140, or BIOL 171 and 171L | Introduction to practical aspects of Plant Biotechnology. Topics include micropropagation techniques, such as plant tissue, cell and protoplast cultures: DNA-based technologies, such as DNA extraction, DNA sequencing, PCR; and methods of plant genetic engineering. This course is designed to train students for careers in advanced agriculture technology and industry. DB/DY |
| AG 149 - Plant Propagation | 3 | None | Introduction to the principles and practices of propagation of fruit, vegetable, and ornamental crops by seed, cuttings, grafting, budding, layering and division. |
| AG 152 - Orchid Culture | 3 | None | An extensive study of orchid identification, breeding, growth, and culture. Students are required to write a 10 to 15 page research report. |
| MICR 130 - General Microbiology | 3 | None | Fundamentals of microbiology, growth, development, and classification of bacteria, viruses, protozoa, fungi and algae; roles of microorganisms in the environment and human affairs: medical microbiology, immunology, and applied microbiology for food sanitation and public health. DB |
| MICR 140 - General Microbiology Lab | 2 | MICR 130; placement into MATH 24 or higher | Laboratory course illustrating fundamental techniques and concepts of microbiology, such as microscopic observations, aseptic transfer, microorganism classification and identification, environmental factors |

Appendix 10. Course descriptions for CA A-PB and CA A-EP

| | | | influencing microbial growth, biochemistry of |
|----------------|---|-----------------|--|
| | | | microorganisms, ecological microbiology, and medical |
| | | | microbiology. DB/DY |
| BIOL 171 - | 3 | High school | Introductory biology for all life science majors. Cell |
| General | | chemistry or | structure and chemistry, growth, reproduction, genetics, |
| Biology I | | college | evolution, viruses, bacteria, and simple eukaryotes. DB |
| | | chemistry and | |
| | | registration in | |
| | | BIOL 171L | |
| BIOL 171L - | 1 | Credit for or | Laboratory to accompany BIOL 171. DY |
| General | | registration in | |
| Biology Lab I | | BIOL 171 | |
| BIOL 172 - | 3 | Credit for | Continuation of BIOL171. Anatomy, physiology, and |
| General | | BIOL 171 | systematics of plants and animals, behavior, ecosystems, |
| Biology II | | and 171L | populations, and communities. DB |
| BIOL 172L - | 1 | Credit for or | Laboratory to accompany BIOL 172. DY |
| General | | registration in | |
| Biology Lab II | - | BIOL 172 | |
| BIOL 275 - | 3 | "C"/better in | Integrated cell and molecular biology for life science |
| Cell & | | BIOL1/1/1/ | majors. Modern advances in recombinant DNA |
| Molecular | | 1L & CHEM | technology. DB |
| Biology | | 2/2/2/2L or | |
| | | consent of | |
| DIOL 2751 | 1 | instructor | |
| BIOL 2/5L - | 1 | BIOL 2/5; or | Laboratory for cell and molecular biology. DY |
| Molecular Riol | | consent of | |
| Lab | | the instructor. | |
| CHEM 151 | 3 | MATH 24 or | Provides the student with an adequate background in |
| Elementary | 5 | grade of | the fundamentals of chemistry. Covers the basic |
| Survey of | | "C"/better in | language and quantitative relationships of chemistry |
| Chemistry | | ENG 21 or | including atomic structure, chemical bonding, structure- |
| Chlennistry | | placement in | property relationships, chemical reactions. Prerequisite |
| | | ENG 22 or | to CHEM 152 for majors in medical technology and |
| | | higher | nursing and other allied health and science-related |
| | | 8 | fields, or can be taken as a preparatory course for |
| | | | CHEM 161. DP |
| CHEM 151L - | 1 | Credit for or | Experiments introducing laboratory techniques and |
| Elem Survey of | | registration in | illustrating chemical principles; supplemented by films, |
| Chemistry Lab | | CHEM 151 | demonstrations, and problem sessions. DY |
| CHEM 161 - | 3 | Registration | Basic principles of inorganic chemistry with an |
| General | | in CHEM 161 | emphasis on problem solving. First course of a two- |
| Chemistry I | | | course sequence designed to meet the one-year General |
| | | | Chemistry requirement for pre-med, science and |
| | | | engineering majors. Topics include chemical |
| | | | calculations, electronic structure, chemical bonding, |
| | | | states of matter and solutions. DP |
| CHEM 161L - | 1 | Credit for or | Laboratory experiments illustrating fundamental |
| General | | registration in | principles of chemistry. DY |
| Chemistry Lab | | CHEM 161 | |
| 1 | | | |

| CHEM 152 -3CSurvey ofCOrganic & BioorCheminCHEM 152L -1Survey ofreOrganic & Biore | | Credit for CHEM 151 or equivalent or consent of instructor Credit for or registration in | Structure, nomenclature, properties and reactions of organic compounds will be studied with emphasis on those compounds of practical importance in life science and related fields. DP Laboratory to accompany CHEM 152. DY |
|---|---|--|---|
| Organic & Bio Chem Lab | | CHEM 152 | |
| CHEM 162 - General Chemistry II | 3 | "C"/better in CHEM 161, credit for or registration in MATH 135, or consent of instructor | Second course of a two-course sequence designed to meet the one-year General Chemistry requirement for pre-med, science and engineering majors. Topics include thermochemistry, kinetics, acid-base equilibrium, solubility equilibrium and electrochemistry. Emphasis on problem solving. DP |
| CHEM 162L - General Chemistry Lab II | 1 | Credit for or registration in CHEM 162 | Laboratory experiments illustrating fundamental principles of chemistry. DY |
| CHEM 272 – Organic Chemistry | 3 | "C"/better in CHEM 162 or instructor's consent | This is the first semester course in organic chemistry intended for science majors. Topics to be covered include structure, properties, nomenclature, reactions, reaction mechanisms, stereochemistry, and spectroscopy of alkanes, alkenes, alkynes, alkyl halides, alcohols, and their applications to biology. DP |
| CHEM 272L – Organic Chemistry Lab | 2 | "C"/better or registration in CHEM 272 or instructor's consent | Laboratory to accompany CHEM 272. DY |
| FSHN 185 - Human Nutrition | 3 | Placement into ENG 100 and MATH 25 or higher, or consent of instructor | An introductory level biological science course which integrates basic concepts of science with the study of human nutrition. Designed for students who want an introduction to nutrition, as well as those who later choose to major in it. DB |

Appendix 11. Letters of support

University of Hawai'i

WINDWARD COMMUNITY COLLEGE

August 8, 2011

To whom it may concern,

I am writing this letter to express University of Hawaii Windward Community College's full support and commitment to the University of Hawaii Agribusiness Education, Training and Incubator (AETI) proposal to USDA-NIFA. The statement of work proposed by University of Hawaii Windward Community College Professor, Dr. Ingelia White, which appears in the AETI proposal, will contribute significantly toward attaining the common goals of the University of Hawaii team.

Since 2002, Dr. White has done an outstanding job in developing and offering the Academic Subject Certificate in BioResources and Technology: Plant Biotechnology (ASC BRT-PB) at Windward Community College. The success of the Plant Biotechnology Program can be attributed to the USDA Consortium grant support. Dr. White has also followed up with students who have completed the certificate, and she can document that they all have either found gainful employment or gone on to seek higher education in the field.

Because of the success and further expansion of our Plant Biotechnology Program, to include the plant-based pharmaceuticals, we are proposing a Board of Regents approved Certificate of Achievement (CA) in Agripharmatech in this USDA consortium project for Fiscal Year 2011 – 2012. The CA in Agripharmatech consists of 2 tracks: the Plant Biotechnology (CA A-PB), and the Ethnopharmacognosy (CA A-EP). The CA A-PB and the CA A-EP will replace the current ASC BRT-PB.

The main focus of the USDA consortium project for Fiscal Year 2011-2012 is to produce a highly trained and skilled workforce in agripharmacobiotechnology for Native Hawaiian students and other minorities, and to promote a nutraceutical diet and make Hawaii more self-sufficient in health food production (green pharmacy), as is stated in section # 4 (Justification) of the WCC Fiscal Year 2011 grant proposal. The other (ongoing) focus is to improve student enrollment and retention by engaging high school students with Windward students in collaborative projects that involve the cultivation of medicinal and nutritious plants, analysis of their medicinal properties and the use of plants in producing biopharmaceutical products. Community outreach projects have been launched to bring public attention to this program.

This proposal promises to be a timely and worthy project, and, without any hesitation whatsoever, we continue to fully support the work of Dr. White, and this proposal. We look forward to collaborating successfully with our University of Hawaii partners in this very important endeavor.

Sincerely,

Richard Fuling

Richard Fulton, PhD Vice Chancellor, UH Windward Community College 45 – 720 Keaahala Road Kaneohe, HI 96744 (808) 235 - 7443

45-720 Kea'ahala Road, Kane'ohe, Hawai'i 96744-3528 Telephone: (808) 235-7400 An Equal Opportunity/Affirmative Action Institution Donna "Sweetie" Kuehu 4473 Likini St. Honolulu, HI 96818 <u>dkuehu@hawaii.edu</u>

August 10, 2011

;

Ingelia White, PhD Prof. Botany/Microbiology Coordinator, Plant Biotechnology Program Chair, Department of Natural Sciences Windward Community College 45-712 Keaahala Road Kaneohe, HI 96744

Re: Certificate of Achievement in Agripharmatech

Dear Dr. White,

I would like to express my gratitude for your strong support and commitment to providing education, research and training at Windward Community College offered through the Plant Biotechnology Program. The Certificate of Achievement in Agripharmatech curriculum provides valuable exposure to opportunities beyond the community college, whether it is in the workplace, the market place, or an advanced educational pursuit.

The scientific training acquired in plant molecular genetics, and plant pharmacognosy studies provides a competitive edge in the workforce, and are the same skills required to operate a successful agribusiness for anyone interested in the challenges and rewards of entrepreneurship. It also provides a firm foundation for an advanced degree program at the University of Hawaii at Manoa, or any other four year program.

The program has been found to meet a wide variety of interests as indicated by the diversity of the students enrolled in the courses. Each student that I have met including myself have a vision of where the Certificate of Achievement will lead them in their future, and I have enjoyed the quality of instruction and student participation in the program.

Thank you again for your devotion to providing a level of education that has a positive impact on peoples lives.

Sincerely,

Sundie Kiel

Sweetie Kuehu



Cindy Goldstein, Ph D Pioneer Hi-Bred International Pioneer Waialua Parent Seed PO Box 520 Waialua, HI 96791

August 1, 2011

To Whom It May Concern,

It is my pleasure to provide this letter of support on behalf of Pioneer Hi-Bred International as an industry partner affirming the importance of these proposed Windward Community College programs. Pioneer Hi-Bred sees great long-term value for Hawaii's seed industry, agriculture and technology sectors in development of the Plant Biotechnology program.

The seed industry is one of the few growth areas of our economy in Hawaii. Pioneer Hi-Bred International has expanded our operations and number of employees on Oahu and Kauai over the past decade and especially in the past 3 years. We have experienced difficulty in identifying and hiring employees with the educational background we seek for our positions and are very interested in having Windward Community College offer program that provides training to fulfill our demand for future job candidates in the area of agriculture science and plant biotechnology. Pioneer currently employees approximately 325 employees in Hawaii, with approximately 120 positions added in the past 3 years. We expect to recruit in the range of 40 to 50 full time employees in the next 3 years. Pioneer Hi-Bred is a committed industry partner that supports Windward Community College's goals and strategies. We feel that training a highly qualified, "home grown" workforce is key to developing a strong, sustainable economy in Hawai'i. To demonstrate our support, Pioneer Hi-Bred International is prepared to provide science-based presentations to students in classes offered as part of these programs as well as information and presentations about career opportunities and preparation for becoming well qualified job candidates. Pioneer is prepared to help place trained and qualified workers into our work force, especially students with an educational background in plant science, technology, and biotechnology.

We look forward to seeing course programs offered by Windward Community College and the opportunity to be involved as a community business partner and future employer of program graduates.

Sincerely,

Cindy Goldstein, Ph. D Business and Community Outreach Manager Pioneer Hi-Bred International, Inc



Hawaii Agriculture Research Center

94-340 Kunia Road, Waipahu, HI 96797 Mailing address: P. O. Box 100, Kunia, HI 96759 Ph: 808-621-1266/Fax: 808-621-0399

August 11, 2011

Dear Dr. White:

This letter is to provide collaborative support for your continuing research project at Windward Community College (WCC).

I am a Research Scientist at Hawaii Agriculture Research Center (HARC) and my research interest at HARC is focused on the area of biochemical and molecular biology in tropical plant disease resistance and their interaction with microbes. Our lab is fully equipped to handle tissue culture, genetic transformation, pathogen isolation and culture, protein analysis, DNA/RNA isolation and characterization. My collaborations with Dr. White at WCC are: 1) to train and mentor students from WCC to learn new techniques, such as DNA/RNA isolation and characterization; 2) to develop tissue culture and genetic transformation system for orchids; 3) to evaluate the presence and expression of transgene transformed in the plant; 4) to develop bioassay for evaluation of transgenic orchid plants for virus resistance; and 5) to prepare the presentation of research findings in poster and/or paper for publication.

In the past few years, the collaboration between HARC and WCC has generated tremendous impact in several students from WCC in terms of their learning modern biotechnology, finding employment, and advancing to institutes offering high degrees. The following is the list of ASC in Plant Biotechnology graduates from WCC who have been trained in a number of research projects through this collaboration and have been employed by HARC:

- 1. Natalie Kong: Worked on the project entitled 'Transgenic orchids', Fall 2002 (received M.Sc in MBBE and Doctor of Medicine from UHM).
- 2. Greg Osterman: 2003. Biology major at UHH and worked for HARC and USDA ARS as a biology technician.
- 3. Erin Yafuso: 2003. She has received M.Sc in MBBE and worked at HARC. Currently a lecturer at Windward Community College.
- 4. Waiete Williams: Researched in 'Transgenic Orchids via Gene Bombardment', 2003-2004, and worked at HARC.
- 5. Anolani Badua: 2004-2005. Researched on 'CyMV Resistant Gene Transformation in Orchids via Agrobaterium tumefacience'. She has received B.Sc in Biology and B.Sc. in Pre-med from HPU, and Doctor of Pharmacy from Loma Linda University, San Diego.
- 6. Tracy Peters: 2004-2005. She is pursuing a B.Sc in Biology at UHM.
- Kimberley Chinen: Researched on 'Agrobacterium-mediated Transformation of Blc. Raye Holmes Mendenhall Protocorm-Like Bodies to Confer Resistance to Orchid Cymbidium Mosaic Virus'. 2006-2007. She is pursuing Biology degree at UHM.
- Alisa Sheriff: 2009. She presented a poster titled "Agrobacterium/-Mediated Transformation of Brassolaeliocattleya Raye Holmes 'Mendenhall' Protocorm-Like Bodies to Confer Resistance to Cymbidium Mosaic Virus" at the 3rd Scientific Conference on Andean Orchids, Quito, Ecuador, February 4-8, 2009. She received B.Sc in Biochemistry from HPU.

Best wishes!

Judyskn

Y. Judy Zhu

| CR | | | | | | | 3 | | | | |
|-------------------------|----------------|---|-----------------------------|------------------|---------------------------------|--------------------------------------|--|--|----------------------------------|--|---|
| UHH Agriculture | | | | | AG 297 (Plant Biotechnology) | | HORT 264 | | | | |
| CR | | 3 | 1 | | | | | | | | |
| UHH Biology | BOT 153 | BIOL 275 (Fundamental of Microbiol) | BIOL 275L Fundamental of | Micro Lab | | | /' | | | | |
| CR | 4 | 3 | 2 | | 4 | 3 | 3 | 3 | 3 | 4 | 4 |
| WCC-PBP | BOT 101 | MICRO 130 | MICRO 140 | | BOT 210 | BOT 160 | AG 149 | AG 152 | BOT 105 (HAP/Soc.Sc. Focus) | BOT 130 | BOT 205(Ethnobotanical Pharmacognosy) |
| CR | 4 | | | | 3 | | 3 | 3 | 3 | 4 | 3 |
| PEB & MBBE UHM-CTAHR | BIOL 102/102L | elective | elective | | MBBE 401 consent w/ advisor | elective | TPSS 420 or consent with instructor | TPSS 440 or consent with instructor | BOT 105 (HAP /Soc. Sc. Focus) | BOT 351/351L or elective | BOT 442 or discretion of the instructor |
| Course title | General Botany | General Microbiology | General | Microbiology Lab | Phytobiotechnology | Identification of Tropical Plants | Plant Propagation | Orchid Culture | Ethnobotany | Plants in the Hawaiian Environment | Pharmacognosy |

Appendix A. WCC Plant Biotech program course alignment with CTAHR-UHM, CAFNR-UHH, and Biology Department-UHH

| CR | | 1 - 4 | | 3 | | | | | | |
|-------------------------|---------------------|---------------------------------|--------------------------------|-------------------------------------|---|------------------------|-------------------------|----------------------|----------------------------|--------------------------|
| UHH Agriculture | | AG 195/395/399 | | | | | | 2 | | |
| CR | | 1 - 3 | 4 | 4 | 4 | 4 | 4 | | | |
| UHH Biology | *1 | BIOL299/399 (Directed Study) | BIOL 270/270L | CHEM 114/114L | CHEM 141/141L | CHEM 124/124L | CHEM 125/125L | | | ZOOL 150/150L |
| CR . | 4 | 1 - 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 4 |
| WCC-PBP | BOT 181 | BOT 199/299 | BIOL 275/275L | CHEM 151/151L | CHEM 152/152L | CHEM 161/161L | CHEM 162/162L | FSHN 185 | GIS 150 | BIOL 171/171L |
| CR | 4 | 1 - 4 | 4 | 4 | 4 | 4 | 4 | 3 ' | | 4 |
| PEB & MBBE UHM-CTAHR | BOT 480 or elective | MBBE/PEPS/TPSS 499 | BIOL 275/275L | CHEM 151/151L | CHEM 152/152L | CHEM 161/161L | CHEM 162/162L | FSHN 185 or elective | elective | BIOL 171/171L |
| Course title | Plant Sea Life | Independent Study | Cell & Molecular Biology | Elementary Survey of Chem/Lab | Survey of Organic & Bio-Organic Chem | General Chemistry I | General Chemistry II | Human Nutrition | Introduction to GIS/GPS | General Biology I/Lab |

Appendix B. WCC Plant Biotech program course alignment with UAF

Course Alignment: ASC Plant Biotechnology (WCC) and AS Ethnobotany (UAF)

| WCC Course Title General Botany General Micro Lab Phytobiatechnology Identification of Tropical Plants Plant Propagnet Orchid Culture | WCC ASC Plant Bot 101 MICRO 130 MICRO 140 BOT 210 BOT 160 AG 149 AG 152 | WCC Credits 4 3 2 4 3 3 3 3 | UA Course Title Introduction to Plant Biology Beginnings in Microbiology | Universtiy of Alaska AS Ethnobotany BIOL F239 BIOL F240 BIOL F240 BIOL F240 | UAF Credits 4 4 | Comments 10/13/08 email to Inge Lecture/ 1 credit Lab WCC's Micro lab is 2 credits vs UAF is 1 credit |
|---|--|--|--|--|--------------------------|---|
| Ethnobotany | BOT 105 | 3 | EBOT 193-Intro to Ethnobotany(3)/ EBOT 100-Intro to Ethnobotany(3)/EBOT 102 Ethnobotanical Chemistry(3)/EBOT 210 Ethical Wildcrafting (1) | EBOT 193,or 195, or 100, or 102, or 210 | 3 | (HAP focus) Should we even list HAP because it is semester/instructor specific. The courses may fulfill the requirement, but are not equivalent because it does not discuss Hawaiian fora & fauna. Also, if a student takes more than one of these courses, can they apply it to the certificate? |
| Plants in the Hawaiian Environment | BOT 130 | 4 | Natural History of Alaska BIOL F104 | EBOT 104 (Nat. Hist. of Alaska) ? BIOL F104 | 4 | 1/28/09 email asked if EBOT 210 was similar to BOT 130. Do you mean BIOL F 104? (In my notes, I have noted that EBOT 210 is going to be similar to BOT 199, Independent Study. So perhaps we should not list it here. Has it chanoed? 4.24.09 Mt with Ince. EBOT 102 |
| Ethnobotanical Pharmacognosy | BOT 205 | 4 | EBOT 102 Ethnobotanical Chemistry/ EBOT 210 Ethical Wildcrafting | EBOT 102 and EBOT 210 | 6 | (Chemistry) is 3 credits & EBOT 210 (Wildcrafting) is 1 credit. Good match for BOT 205 4 credits. 4,24.09 Mtg w/ Inge. BOT 205 can be either hulfilling a requirement or if one of the other |
| Independent Study or any elective courses | BOT 199/299 | 1 to 4 | EBOT 201 Ethical Wildcrafting/ ANTH 293 Seminar in Ethnobotany | EBOT 201, or ANTH 293 | | classes is taken, then it can be used as an elective credit. Note: the credit cannot be used twice - fulfilling requirement and elective. description, not cover the material in BIOL 275/L. Inge may contact Rose for a syllabus. |
| Cell and Molecular Biology Elementary Survey of Chem/Lab | BIOL 275/275L CHEM 151/151L | 4 4 | Introduction to Cell and Molecular Biology Basic General Chemistry A Survey of Organic Chemistry | BIOL F261 CHEM F103X | 4 4 | BIOL F261 (Introduction to Cell and Molecular Biology) Found the syllabus after Inge left. 4.24.09 2:35 email from Inge OK equivalency CHEM 151/L |
| General Chem I/Lab General Chem I/Lab Human Nutrition Introduction to GIS/GPS | CHEM 152/152L CHEM 161/161L CHEM 162/162L FSHN 185 GIS 150 | 4 4 3 3 | General Chemistry I General Chemistry II | CHEM F105X CHEM F106X | 4 4 | CHEM 161/L CHEM 162/L |
| | | | | | | BIOL 171/L 4.24.09 Mtg w/ Inge. Alaska changed course number and topics. In the BIOL 115X syllabus, it indicates that BIOL 105 became 116X and BIOL 106 became 115. Since 116 has the prerequisite of 115, Inge would like to leave |
| General Biology I/Lab | BIOL 171/171L | 4 | Fundamentals of Biology I | BIOL 105 changed to BIOL F115X | | BIOL 115 as equivalent to WCC's BIOL 171/L. 4.24.09 2:14 email from Inge OK equivalency |
| Elective Credits | | | | | | Found after Inge left. 4.24.09 2:20 email from |
| Human Nutrition | FSHN 185 | 3 | Science of Nutrition | HLTH F 203 | 3 | Inge OK equivalency |
| Using University of Alaska Fairbanks Catalog 2007-08 Mtg w/ Inge 4.24.09 Updated w/ Inge's email appproval 4.24.09 | 4.2.09 | | | | | |



Appendix C. WCC Plant Biotechnology student transfer and workforce pathways

Appendix D. CTAHR - Biotechnology and Agricultural Education Program



Contact us with questions or comments

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|--|---|--|--|--|---|---|---|--|--|---|---|---|
| | A | В | C | D | E | F | G | H | - | 3 | <u> </u> | |
| 1 | Acade | emic Cost | and RevenueTemplate - New Progr | ram (adjust tem | plate for appro | priate number | of years) (Upda | ted 09/06/11) | | | | |
| 2 | | | | | | | | | | | | |
| 3 | ENTER | VALUES I | N YELLOW CELLS ONLY | | | | | | | | • | |
| 4 | CA | MPUS/Prog | ram | WCC/CA in Agrip | harmatech | | | | | | | |
| 5 | | | | Provisional Year | s (2 yrs for Certi | ficate, 3 vrs for | Associate Degre | e. 6 yrs for Bach | elor's Degree, 3 | yrs for Masters | Degree, 5 yrs for Docto | |
| 1 e | - | | | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | | | |
| - | | | A VEAD // - AA44 AA431 | 2012 2012 | 2012 2014 | i cui c | | | | | | |
| 1 | ENTER | ACADEMI | C YEAR (I.e., 2011-2012) | 2012-2013 | 2013-2014 | | | | | | | |
| 8 | Studer | nts & SSH | | | | | | | | | | |
| 9 | | A. Headcou | nt enrollment (Fali) | 18 | 20 | | | | | | | |
| 10 | | B. Annual S | SH | 2,287 | 2,300 | | | A STATE OF A STATE OF A STATE | | | | |
| 11 | | | | | | | | | | | | |
| 12 | Direct | and Increm | ental Program Costs Without Fringe | | | | | | | | | |
| 12 | Direct | C Instructio | and Cost without Eringe | \$ 163 738 | \$ 170 287 | | | | | | | |
| 13 | | C. Insudcio | nar Cost without Pringe | 3 103,730 | 2.00 | | | | | | | |
| 14 | | C1. Nu | imber (FTE) of FT Faculty/Lecturers | 2.00 | 2.00 | | | | | | | |
| 15 | | C2. Nu | umber (FTE) of PT Lecturers | 0.60 | 0.60 | | | | | | | |
| 16 | | D. Other Pe | rsonnel Costs | \$ 53,858 | \$ 53,858 | 1 | | | | | | |
| 17 | | E. Unique P | Program Costs | \$ 39,000 | \$ 39,000 | | | | | | | |
| 18 | | F. Total Dire | ect and Incremental Costs | \$ 256,596 | \$ 263,145 | | | | | | | |
| 10 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | Reven | ue | | | | | | | | - | | |
| 21 | | G. Tuition | | \$ 230,987 | \$ 243,800 | | | | | | | |
| 22 | | Tuition r | rate per credit | \$ 101 | \$ 106 | | 1. A. | | | | | |
| 23 | | H. Other | | \$ 108,000 | \$ 108,000 | | | | | | | |
| 24 | | 1. Total Rev | enue | \$ 338,987 | \$ 351,800 | | | | | | | |
| 25 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 00 | | Cost /De | | 82 204 | | | | 1.00 | | | 1 | |
| 20 | J. Net | COSt (Reve | illue) | -02,391 | -00,000 | | | 1 | | | | |
| 27 | | | | | | | | 1 | | | | |
| 28 | | | | | | | | 1 | | | | |
| 29 | | | | | | | | 1 | | | | |
| 30 | Progra | m Cost per | SSH With Fringe | | | | | | | | | |
| 21 | | K Instruct | tional Cost with Fringe/SSH | \$ 01 | \$ 97 | | | | | | | |
| 22 | | V4 T | tal Salary ET Facultul acturers | \$ 138 478 | \$ 144.017 | | | | The second second and | | | |
| 34 | | K1. 10 | ast Including Erings of K4 | \$ 196.045 | \$ 104.422 | | | | | | | |
| 33 | | KZ.C | ost including Fringe of K1 | # 100,945 | · 104,423 | | | | | | | |
| 34 | | K3. To | otal Salary PT Lecturers | \$ 25,260 | \$ 26,270 | | | | | | | |
| 35 | | K4. C | ost Including fringe of K3 | \$ 26,523 | \$ 27,584 | | | | | - | | |
| 36 | | L. Suppor | t Cost/SSH | \$ 318 | \$ 318 | | | | | | | |
| 37 | | No | on-Instructional Exp/SSH | \$ 277 | \$ 277 | | | | | | | |
| 38 | | S | stem-wide Support/SSH | \$ 41 | S 41 | | | | | | | |
| 20 | | 0 | reanized Research/SSH | | | | | | | | | |
| 30 | | M Tatal | ganzed Research/Son | e 411 | ¢ 415 | | | | | | | |
| 40 | - | M. TOTAL | rogram Cosuson | 411 | S 415 | | | - | | | | |
| 41 | | N. Total C | Campus Expenditure/SSH | \$ 45/ | 3 43/ | | | | | | | |
| 42 | | 1 | | | | | | | | | | |
| 43 | Instru | ction Cost w | with Fringe per SSH | | | | | | | | | |
| 44 | | K. Instruc | tional Cost/SSH | \$ 93 | \$ 97 | | | | | | | |
| 45 | | O Comp | arable Cost/SSH | \$ 551 | \$ 551 | | | | | | | |
| 40 | - | O. Comp | Program used for comparison | KCC Health Sen | vice Tech | | | | | | | |
| | | | Program used for companison. | RCC Health Sel | ice recit | | | | - | - | | |
| 40 | | | | | | - | | | | | | |
| 40 | _ | | | | | 0, | - | 1 | 1 | | | |
| 40 | - | Reviewed | by campus VC for Administrative Affa | irs: (signatur | e and date) | pr | in a | 2/0 | 1., | | | |
| 47 48 49 | Instru | Reviewed | by campus VC for Administrative Affa | airs: (signatur | e and date) | C.r | 1070 | 9/9/ | 111 | | | |
| 47 48 49 50 | Instru | Reviewed I | by campus VC for Administrative Affa explanation of this template in your narra | lirs: (signatur ative. | e and date) | 6.1 | To | 2/9/ | 1.1 | | | |
| 40 47 48 49 50 | Instru Please A | Reviewed ctions include an Headcount | by campus VC for Administrative Affa explanation of this template in your narra Enrollment: Headcount enrollment of m | ative. najors each Fall se | e and date) | et url: http://www | Jo waii.edu/iro/r | 1/9/ | ory = Enrollment | . Campus data ma | ay be used when majors | |
| 47 48 49 50 51 | Instru Please A. | Reviewed ctions include an Headcount are a subse | by campus VC for Administrative Affa explanation of this template in your name Enrollment: Headcount enrollment of m t of enrollment reported in IRO reports. | airs: (signatur ative. najors each Fall se | e and date) emester. Located | et url: http://www | Jo Jevaii.edu/iro/r | 1/9/ | ory = Enrollment | . Campus data ma | ay be used when majors | |
| 47 48 49 50 51 | Instru Please A. B | Reviewed ctions include an Headcount are a subse | by campus VC for Administrative Affa explanation of this template in your narre Enrollment: Headcount enrollment of m et of enrollment reported in IRO reports. | ative. najors each Fall se | e and date) emester. Located | | | 1/9/ | pory = Enrollment | . Campus data ma | ay be used when majors | |
| 40 47 48 49 50 51 | Please A. B. | Reviewed ctions include an Headcount are a subse Annual SSH | by campus VC for Administrative Affa explanation of this template in your narre Enrollment: Headcount enrollment of m at of enrollment reported in IRO reports. - Course Registration Report located a | irs: (signatur ative. najors each Fall se at http://www.hawa | e and date) emester. Located | at url: http://www | www.aii.edu/iro/r | 1/9/ maps.php? Categoort. Add the SSH | pory = Enrollment | . Campus data ma | ay be used when majors | |
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| 40 47 48 49 50 51 51 52 53 54 | Please A. B. C. | Reviewed ctions include an Headcount are a subse Annual SSI This is all S Instructiona C1. Numbe | by campus VC for Administrative Affa explanation of this template in your narrat Enrollment: Headcount enrollment of m et of enrollment reported in IRC reports. - Course Registration Report located a SH taught by the program, including to r I Cost without Fringe (automated calcul or full time faculty and loctures who ar | airs: (signatur ative. najors each Fall se at http://www.hawa non-majors. Adjust lation): Direct sala re ≥.5 FTE. | e and date) emester. Located <u>ii.edu/iro/maps.pl</u> if majors are shh ry cost for all fact | at urf: http://www hp2 Title = Course set of SSH report lity and lecturers to | Registration Reg ted. teaching in the pr | 1/9/ naps.php? Categ port. Add the SSH ogram. *Formula | for the Fall and for column D: =I | Campus data ma Spring reports to (F(OR(D32<>""),D3 | ay be used when majors obtain the annual SSH. 32+D34, ~) | |
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Appendix E. Academic Cost and Revenue 2012 - 2014

Review of ATP Proposals at Windward Community College

New Program Proposal:

New Program Proposal levels of review done prior to or concurrent with the ATP submission for off-campus review.

Signatures Dates 1. Proposer 8/25/11 INGELI WHITE Department Area (more than one departmental instructor's signature required) 2. 11 9 9/11 9 9 11 U 1 m Department 3. 9/9/11 Date Department Chairperson 4. Division

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| Approved | Disapproved | |
|----------------------------------|-------------|------|
| Reason: | | |
| Curriculum Committee Chairperson | | Date |
| Faculty Senate Review | | |
| Approved | Disapproved | |
| Reason: | | |
| Faculty Senate Chairperson | | Date |
| Vice Chancellor for Instruction | | |
| Approved | Disapproved | |
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