

New Program Code **Modify Program Code**

Date: 4/24/2018

REQUESTOR CONTACT INFORMATION

Name Kabi R Neupane Campus Leeward CC
 Title Professor Email kabi@hawaii.edu
 Office/Dept Math and Science Phone 808-455-0418

NEW PROGRAM CODE TO CREATE

Institution LEE - Leeward Community College Campus LEE - Leeward Community College
 Level UG - Undergraduate Effective Term Fall 2018

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>IN</u>	<u>Instructional</u>	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) <u>MS</u>	<u>Math & Science</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>CO</u>	<u>Certificate of Competence</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>PBS</u>	<u>Plant Biology and Tropical Ag</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>AQUA</u>	<u>Aquaponics Technician</u>	<input checked="" type="checkbox"/> See Banner form STVMAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: _____

Justification to warrant a new major/concentration code similar to an existing major/concentration code: _____

Is this major/concentration code being used the same way at the other UH campuses? Yes No
 Should this program be available for applicants to select as their planned course of study on the online application? *If yes, student may select the code as their only program of study.* Yes No

RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION

Is 50% or greater of the classes in this program offered at a location other than the Home Campus? Yes No
 Is this program/major/certificate financial aid eligible? Yes No
 Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? Yes No

See <http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html>

Program Length

In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication.

1 year

Special Program Designations A B N P T U

See *Special Program Designations Code Definitions on IRAO Program Code Request webpage*

Required Terms of Enrollment: Fall Spring Summer Extended

IRA0 USE ONLY: DATE RECEIVED

ADDITIONAL COMMENTS

ATTACHMENTS

BOR Approved: Sole-credential Certificates, Associate (excluding ATS), Bachelor and Graduate Degrees, and sole credential certificates

- BOR Meeting Minutes & Supporting Documents Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.
 Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

- BOR approved certificate. BOR Meeting/Approval Date: _____
 Chancellor approved within an authorized BOR program. BOR Program: AS-PBS
 Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar
(Print Name)

Financial Aid Officer
(Print Name)

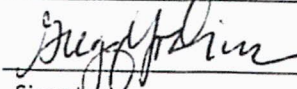
For Community Colleges,
verification of consultation with
OVPC Academic Affairs:

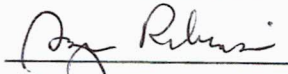
Grant Helgeson

Gregg Yoshimura

Suzette Robinson

 4/25/18
Signature Date

 4/26/18
Signature Date

 5/11/18
Signature Date



UNIVERSITY of HAWAII
LEEWARD
COMMUNITY COLLEGE

April 9, 2018

MEMORANDUM

TO: Donald Straney
Vice President for Academic Planning & Policy

VIA: Della Teraoka *Della Teraoka*
Vice Chancellor for Academic Affairs

FROM: Manuel J. Cabral *Manuel J. Cabral*
Chancellor

SUBJECT: Program Approval

I have approved the following effective Fall 2018. The approval can be found at:
<https://leeward.kuali.co/cm>

New
Certificate of Competence (CO) – Aquaponics Technician

c: Division Chairs
James Goodman
Ron Umehira
Pete Gross
Adam Halemano
Janel Oshiro
Erin Thompson
Candy Hochstein
Pearl Imada-Oboshi

Program Code | Aquaponics Technician

Future | Fall 2018 – Indefinite

CODE

Program Code

1) GENERAL INFORMATION

1.1) Program Title

Aquaponics Technician

1.2) Degree Type

Certificate of Competence (CO)

1.3) Description

This is an industry aligned, entry-level commercial aquaponics certification of competency (CO) standardized and offered across the University of Hawai'i Community College system. The proposed technician certification of competency is slated to be the nation's first comprehensive third-party certified technician education and training program to address the need for a university-trained and properly prepared, entry-level aquaponics labor force in the commercial aquaponics industry.

1.4) Division

Math & Science

2) PROGRAM LEARNING OUTCOMES

2.1) Outcomes

Demonstrate basic knowledge of aquaponics systems.

Demonstrate an understanding of aquaponics standard operating procedures.

Demonstrate current food safety policies and procedures related to aquaponics.

Complete an internship in a commercial-scale aquaponics facilities.

3) BOR INFORMATION

3.1) Program Justification

The Aquaponics Technician Certificate of Competence (CO) offers comprehensive courses that will help students develop the skills and acquire knowledge in aquaponics production through hands-on practices and classroom instructions. It will provide farmers, entrepreneurs, returning non-traditional students, and youth who are interested in aquaculture production with fundamental skills and experiences in tropical aquaponics production.

The program will address core values of Leeward Community College's mission (2017-2018):

Community: We value cooperation, collaboration, social responsibility, and concern for others as crucial elements in building a sense of community inside and outside of the institution.

Diversity and respect: We value individual differences and the contributions they bring to the learning process. Students are enriched through a diverse intellectual and social environment, where learning occurs through exposure to world cultures, and through interaction with peoples of diverse experiences, beliefs, and perspectives.

Integrity: We value personal and institutional integrity by fostering a culture of continuous improvement to open pathways to student success. We hold ourselves accountable for providing a high-quality academic experience.

Open access: We value all students. We seek to meet their needs, as well as those of the community, by offering a diversity of courses, degree and certificate programs, and training opportunities, through traditional and distance education modes of delivery.

The program will also address Leeward CC 2015-2021 Strategic Plan, which is aligned with the University of Hawaii Community College (UHCC) System and the University of Hawaii (UH) System Strategic Plan. It will provide an opportunity for non-traditional returning adult learners (industry professionals) to return for a degree that is suitable for the workforce needs. The traditional college students will be prepared to start their career with better job skills and training. The program is designed to reach low-income students in an underserved region on the Leeward-Waianae Coast.

This program is being created based on industry trends and demands.

3.2) Program Mission and Objectives

The Aquaponics Technician CO is a comprehensive program that provides students experiences in horticulture, aquaculture, and aquaponics systems. It will help farmers, returning non-traditional students and youth who are interested in agriculture to gain fundamental skills and experiences in aquaponics production.

It will utilize the existing classes offered in the Degree pathway. Students will have an opportunity to pursue CA and AS degree, which build upon this program.

3.3) Program Curriculum Plan

The program will provide comprehensive courses in plant science and aquaponics. The subjects included plants, aquaculture, pest management and aquaculture systems. Students will have an opportunity to pursue CA and AS degree, which build upon this program.

The Aquaponics Technician Certificate of Competence is awarded to students who complete 13 credits of the following courses:

AG 104 Food Safety & Post Harvest Handling (proposed course) (1)

AG 170 Introduction to Commercial Aquaponics (3)

AG 170L Introduction to Commercial Aquaponics Lab (1)

HORT 110 and 110L Hawaii Horticulture & Nutrition and Lab (4) or AG 112 Introduction to Organic Agriculture (4) or AG 200 and 200L Introduction to Plant Science and Lab (4)

AG 293V AG Internship (4)

3.4) Program Rules

- Complete all of the following
 - Completed the following:
 - AG 104 - Food Safety & Post-Harvest Handling
 - AG 170 - Introduction to Commercial Aquaponics
 - AG 293V - Plant Biology & Tropical Agriculture Internship
 - AG 170L - Introduction to Commercial Aquaponics Laboratory
 - Complete 1 of the following
 - Completed the following:
 - HORT 110 - Hawaii Horticulture & Nutrition
 - HORT 110L - Hawaii Horticulture & Nutrition Lab
 - Completed the following:
 - AG 112 - Introduction to Organic Agriculture
 - Completed the following:
 - AG 200 - Principles of Horticulture
 - AG 200L - Principles of Horticulture Lab

3.5) Program Target Group

The program will recruit students from 1) incoming freshmen who are interested in science and agriculture and/or seeking an Associate in Science degree in Plant Biology and Tropical Agriculture, 2) Non-science majors who are inspired by introductory science and agriculture courses to major in a science, 3) employees and non-traditional students in agriculture, business organizations who intend to gain more skills and experiences in aquaponics production

3.6) Program Resources

The Majority of courses required for the new certificates and degree were approved and have already been offered. The supplies, equipment, additional expense and salary are being funded in part from a Carl D. Perkins grant and other grants.

3.7) Program Efficiency

The proposed program will utilize classes already taught at Leeward CC. The efficiency of offering those classes will be determined by the standard methods already in place. Efficiency should be high since most of the required classes showed an increasing in number of students.

After the program is approved, it is expected to generate revenues in FY 2019. The information concerning cost per SSH, SSH/faculty, average class size and other quantitative measures will be available.

3.8) Program Effectiveness

Effectiveness will be evaluated by the number of graduates and those who may continue their studies to obtain a CA and an AS in Plant Biology and Tropical Agriculture.

Program effectiveness will be assessed annually by Plant Biology and Tropical Agriculture faculty as part of the program review process.

4) ATTACHMENTS
