

IRAO OFFICE USE ONLY	
Received	
In Banner	
MTVCOMP/Codeset	
Master Curriculum	
CIP Code	
Program Code	
Program Description	

University of Hawai'i
Code Request Form for Academic Programs for

Reset Form

NEW OR MODIFY PROGRAM CODE

New Program Code **Modify Program Code**

Date: 5/1/17

REQUESTOR CONTACT INFORMATION

Name Charles Sasaki Campus Windward CC
 Title Dean, Division II Email sasakich@hawaii.ed
 Office/Dept Academic Affairs Phone 808-235-7416

NEW PROGRAM CODE TO CREATE

Institution WIN - Windward CC Campus WIN - Windward CC
 Level UG - Undergraduate Effective Term Fall 2017

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>IN</u>	<u>Instructional</u>	<input type="checkbox"/> See Banner form STV COLL
Department	(4) <u>MABU</u>	<u>Mathematics & Business</u>	<input type="checkbox"/> See Banner form STV DEPT
Degree/Certificate	(6) <u>CO</u>	<u>Certificate of Competence</u>	<input checked="" type="checkbox"/> See Banner form STV DEGC
Major	(4) <u>ICS</u>	<u>Information & Computer Science</u>	<input type="checkbox"/> See Banner form STV MAJR
Concentration	(4) <u>ISSP</u>	<u>Info Security Specialist</u>	<input type="checkbox"/> See Banner form STV MAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STV MAJR

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.ifop.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.

0.5

Special Program Designations

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

A B N P T U

Required Terms of Enrollment: Fall Spring Summer Extended

ADDITIONAL COMMENTS

[Empty box for additional comments]

ATTACHMENTS

BOR Approved: Associate, Bachelor and Graduate Degrees, and sole credential certificates

BOR Meeting Minutes & Supporting Documents

Curriculum

Chancellor Approved: Certificates related to authorized BOR program & Associate in Technical Studies (ATS) Degree

Memo from Chancellor to notify VPAA about new program

Curriculum

For new certificates approved by the Chancellor, the related BOR authorized academic program is:

CERTIFICATE OF COMPETENCE IN INFORMATION SECURITY (UHCC.P 5.203)

VERIFICATIONS

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

Registrar:

Geri Imai

Print Name

Signature

Date

6-9-17

Financial Aid Officer:

Steven Chigawa

Print Name

Signature

Date

6/9/17

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

Suzette Robinson

Print Name

Signature

Date

7/11/17

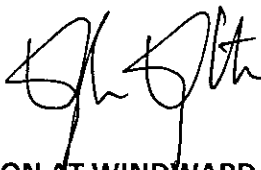


UNIVERSITY of HAWAII*
WINDWARD
COMMUNITY COLLEGE

May 9, 2017

MEMORANDUM

TO: Risa Dickson
Vice President for Academic Affairs

FROM: Douglas Dykstra 
Chancellor

SUBJECT: PROGRAM ACTION AT WINDWARD COMMUNITY COLLEGE

I have approved the following program action on April 22, 2017 effective Fall 2017.

New
Certificate of Competence in Information Security

cc Pearl Iboshi, IRAO
Geri Imai, Registrar
Steven Chigawa, Financial Aid Officer

45-720 Kea'ahala Road
Kāne'ohe, HI 96744-3528
Telephone: (808) 235-7400

An Equal Opportunity/Affirmative Action Institution

**Windward Community College
Program Proposal**

Proposed Name: Certificate of Competence in Information Security

Date of proposal: 1/20/2017

Date of proposed implementation: Fall 2017 (preferably, to meet grant reporting requirements)

Date of proposed end date: _____

Type of Program or Certificate

- | | |
|--|--|
| <input type="checkbox"/> Associate of Arts | <input type="checkbox"/> Associate of Science |
| <input type="checkbox"/> Academic Subject Certificate (ASC) | <input type="checkbox"/> Certificate of Achievement (CA) |
| <input checked="" type="checkbox"/> Certificate of Competence (CO) | <input type="checkbox"/> Certificate of Participation (CP) |
| <input type="checkbox"/> Certificate of Professional Development (CPD) | |

i. Narrative of the Program

Is this certificate or one similar to it, offered at any other college in the system? If so, discuss the similarities and differences between the course offerings.

This certificate is the same as the Certificate of Competence in Information Security at Leeward Community College, and is similar to other Cyber Security initiatives at other UH Community Colleges. Cyber Security is a focus of the TAACCCT IV grant, so all of the UHCCs have been working to develop courses and certificates in this area.

ii. Student Learning Outcomes

- Create and implement security policies and procedures to aid in security administration.
- Apply techniques involved with Ethical Hacking.
- Aid in the collection, examination and preservation of data using proper computer forensics.

iii. Courses connected to the Program

Specify the total number of credit hours required to earn the certificate. Provide a brief description of each required course, indicating the specific competencies to be attained. Indicate courses that are not currently offered by the college.

Total number of credits required for certificate: 9

ICS 171 Introduction to Computer Security (3) – Covers the essentials of computer security, including risk management, the use of encryption, activity monitoring, intrusion

detection; and the creation and implementation of security policies and procedures to aid in security administration.

Student Learning Outcomes:

1. List the first principles of security and describe why each principle is important to security and its relationship to the development of security mechanisms and security policies.
2. Describe why good human machine interfaces are important to system use, the interaction between security and system usability and the importance for minimizing the effects of security mechanisms.
3. Analyze common security failures and identify specific design principles that have been violated, and the needed design principle, when given a specific scenario.
4. List the fundamental concepts of the Information Assurance/Cyber Defense discipline and describe how they can be used to provide system security.
5. Identify the elements of a cryptographic system and describe the differences between symmetric and asymmetric algorithms, which cryptographic protocols, tools and techniques are appropriate for a given situation, and implementation issues.

ICS 281 Ethical Hacking (3) – Covers basic ethical hacking techniques also known as white hat hacking. It stresses the moral and legal issues about hacking and how these techniques can be used to defend against attacks as well as to perform authorized system security evaluation testing.

Student Learning Outcomes:

1. Demonstrate how to apply current cyber-attack, countermeasures and best practices using current cyber defense tools, methods and components.
2. Implement a defense incident response and recovery strategies.
3. Evaluate the moral and legal obligations of an ethical hacker.
4. Apply the knowledge gained in hardening systems to prevent or minimize attacks.

ICS 282 Computer Forensics (3) – Covers basic computer forensics including operating system diagnostics, the use of forensic toolkits to examine and validate computer activity and techniques for the proper collection, examination and preservation of forensic evidence.

Student Learning Outcomes:

1. Discuss the rules, laws, policies, and procedures that affect digital forensics.
2. Demonstrate the proper use of one or more common digital forensics tools.
3. Describe the steps in performing digital forensics from the initial recognition of an incident through the steps of evidence gathering, preservation and analysis, through the completion of legal proceedings.

iv. Description of demand and social value of the program

As the primary Community College campus for the Windward side of Oahu, we want to offer more opportunities for students in the STEM field. This certificate will provide students with opportunities to make effective decisions with intellectual integrity to solve problems and/or achieve goals utilizing the skills of critical thinking, creative thinking, information literacy, and quantitative/symbolic reasoning, which are fundamental skills in the computer industry.

This certificate provides an entry point to a career in the computer industry in the State of Hawaii. According to the Hawaii Workforce Infonet (<https://www.hiwi.org/>) of the Hawaii Department of Labor, job demand for computer specialists will continue to increase for the immediate future. Most of these jobs are increasing at a rate greater than the average for all occupations.

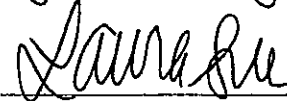
v. Description of resources needed, including budget, personnel, and facilities.

If none are required, how will existing facilities and equipment be utilized?

The TAACCCT IV grant will provide the salary for a temporary full time Cyber Security instructor. After that, we will most likely hire a lecturer and offer one or two classes per semester. We already have two computer labs that would be sufficient for these classes. The use of a NETLAB system will be required for some of the classes, which Leeward Community College will be providing for us.


Review of Windward Community College Program

Name: Cybersecurity certificate of competence

1. Proposer  2/14/2017

2. Department Area (more than one departmental instructor's signature required)

 2-14-17
Signature Date

 2-14-17

 2/14/17

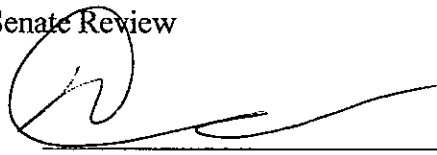
3. Department  2/14/17
Department Chairperson Date

4. Division  2/22/17
Dean of Academic Affairs Date

5. Curriculum Committee Review Approved / Disapproved

 2/14/17
Curriculum Committee Chairperson Date

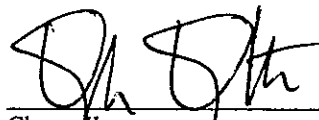
6. Faculty Senate Review Approved / Disapproved

 2/21/17
Faculty Senate Chairperson Date

7. Vice Chancellor for Academic Affairs Approved / Disapproved

 2/22/17
Vice Chancellor of Academic Affairs Date

8. Chancellor Approved / Disapproved

 4/22/17
Chancellor Date

If disapproved, please provide reasons on the back of the form