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: 4/19/16

REQUESTOR CONTACT INFORMATION

Name	Debie Amby	Campus	UH Maui College
Title	Banner/Curriculum Specialist	Email	debie@hawaii.edu
Office/Dept	Academic Affairs	Phone	808-984-3378

NEW PROGRAM CODE TO CREATE

Institution	MAU - UH Maui College	Campus	MAU - UH Maui College
Level	UG - Undergraduate	Effective Term	Fall 2016

	Code (Max. Characters)		Description	Check if requesting new code:
College	(2)	IN	Instructional	[ ] See Banner form STVCOLL
Department	(4)	ECET	Electronic &Comp Engineer Tech	[ ] See Banner form STVDEPT
Degree/Certificate	(6)	CA	Certificate of Achievement	[ ] See Banner form STVDEGC
Major	(4)	ECET	Electronic &Comp Engineer Tech	[ ] See Banner form STVMAJR
Concentration	(4)	ISSP	Info Security Specialist	[ ] See Banner form STVMAJR
Minor	(4)			[ ] See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: CO-ECET-ISSP

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

The Certificate of Achievement in Information Security Specialist builds upon the Certificate of Competence with advanced cybersecurity skilled courses.

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)? *See http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html*	[ ] Yes	[✓] No

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.   2.0

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

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:

AS - ECET

VERIFICATIONS

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

Registrar:

Flora Mora

Print Name   Signature   5/6/16 Date

Financial Aid Officer:

Kilohana Miller

Print Name   Signature   5-4-16 Date

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

Suzette Robinson

Print Name   Signature   6/22/16 Date

Curriculum proposal number ___2019.05___

University of Hawaii Maui College
Curriculum Action Request (CAR) Form
Program/Degree/Certificate

For Banner use.	
Req:	Rev:
___ Alpha	___
___ Program/name	___
___ Program Code	___
___ Concentration	___
___ Major Code	___

1. Author(s): Debasis Bhattacharya and Mark Hoffman

2. Department: STEM   Program: ECET

3. Date submitted to Curriculum Committee:

4. Program proposal
   ☐ New program *(attach program proposal and program map)*   ☐ Change of name to existing program

   Existing program   *Title:* ECET
   Proposed program   *Title:*

5. Credential (degree or certificate) proposal
   ☒ New credential added to existing program   ☐ Modification to existing credential

   Type of credential
   Degree: ☐ AA ☐ AS ☐ AAS   Certificate: ☒ CA ☐ CC ☐ CO ☐ ASC
   ☐ Other, specify:

   Existing credential: *Title*   *Credits:*
   Proposed credential: *Title:* Certificate of Achievement (CA) in Information Security (ISSP) *Credits:* 24

   If modification, describe change:
   ☐ Change in credential name
   ☐ Change in course requirement(s); specify:
   ☐ Change in prerequisite(s) for credential; specify:
   ☐ Other; specify:

   ☒ Program map must be attached. *(For modifications, write changes on copy of current catalog map.)*

6. Reason for this curriculum action:
   Creating a higher level certificate that meets the needs for advanced cybersecurity skills. This CA builds on the CO that can be achieved by taking 1xx level courses. This CA includes 2xx level advanced courses in Cybersecurity, in addition to ENG 100 and MATH 103 or higher.

7. Proposed term of first offering: <u>Fall</u> semester of <u>2016</u> year.

8. Special fees required: ☒ no ☐ yes, explain:

9. Special resources (personnel, supplies, etc.) required: ☒ no ☐ yes, explain:

10. Special scheduling considerations: ☒ no ☐ yes, explain:

11. Which program SLOs does this certificate support? *(list all that apply and explain, if necessary.)*
    ☒ Program SLO 1: Apply project management techniques to electrical/electronic(s) and computer systems
        Explain:
    ☒ Program SLO 2: Program SLO 2: Demonstrate engineer's way of thinking, analyzing technology as systems
        Explain: Explain:
    ☒ Program SLO 3: Program SLO 3: Demonstrate critical engineering technology skills and experiences such as:
    making existing

technology operate, creating/selecting new technology, troubleshooting, calibrating, characterizing, and optimizing Explain:

12. Current UHMC Catalog needs revision on page(s): UHMC General Catalog 2015¬2016. Modifications needed for 3

pages - Offerings on Page 10, CA Section page 28, ECET program page 45,

13. Additional Information: This new CA in Information Security builds on the CO in Information Security and requires 24 credits or 8 courses. Four courses or 12 credits fall in a basic category - ICS 101, ICS 169, ICS 171 and ICS 184 or ETRO 140. Two advanced courses in Digital Forensics ICS 282 and Ethical Hacking ICS 281, will be added to this new proposed CA in Information Security. In addition, there will be the requirement for ENG 100 and MATH 103 or higher.

New Program Map - Certificate of Achievement (CA) in Information Security (ISSP)

Existing Program – Electronic and Computer Engineering Technology (ECET)
New Credential – Certificate of Achievement (CA) in Information Security (ISSP),
Credits – 24-25

Program Map of Course - Catalog Format

First Semester (Fall)	or, Second Semester (Spring)
ICS 101 - Digital Tools for the Information World (3) ENG 100 MATH 103 or MATH 115 or higher (3)	ICS 101 - Digital Tools for the Information World (3) ENG 100 (3) MATH 103 or MATH 115 or higher (3)
Third Semester (Fall)	Fourth Semester (Spring)
ICS 169 - Introduction to Information Security (3) ICS 184 (3) - Introduction to Networking or, ETRO 140 - Computer Networking I (4)	ICS 171 - Introduction to Computer Security (3) ICS 281 - Ethical Hacking (3) ICS 282 - Computer Forensics (3)

** Note: ICS 101 can be taken either in the First or Second semester.

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Sequence of Courses

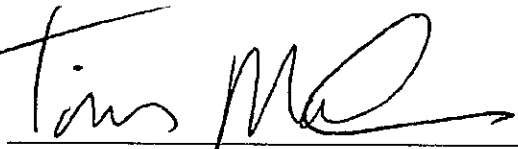| ICS 101	ICS 169	ICS 171
MATH 105 + ENG 100	ICS 184 or ETRO 140	ICS 281 ICS 282

ICS Courses

1. **ICS 169 – Introduction to Information Security (3 credits) -** Formerly topics ICS 190v. New course within UH system.

   Provides the basic foundation to information security, including identifying threats, planning for business continuity, and preparing for various security attacks. Focus will be given to threats to financial security such as attacks on banking and other related financial information. Special emphasis on ethics and legal issues that covers hacking and other cybersecurity techniques and tactics.

2. **ICS 184 – Introduction to Networking (3 credits) -** Identical to Leeward Community College (LCC) ICS 184
   Provides the student with the knowledge and skills to manage, maintain, troubleshoot, install, operate and configure basic network infrastructure, as well as to describe networking technologies, basic design principles, and adhere to wiring standards and use testing tools.

3. **ICS 171 – Introduction to Computer Security (3 credits) -** Identical to LCC ICS 171
   Examines 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.

4. **ICS 281 – Ethical Hacking (3 credits) -** Identical to LCC ICS 281
   Studies the 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.

5. **ICS 282 – Computer Forensics (3 credits) -** Identical to LCC ICS 282
   Studies the 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.

University of Hawaii Maui College
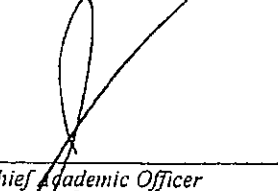## Curriculum Action Request (CAR) Signature Page

Proposed by: Author or Program Coordinator   9/11/15   _Date_

Checked by: Academic Subject Area Representative to Curriculum Committee   9/11/15   _Date_

Requested by Department: Department Chair   9/11/15   _Date_

Recommended by: Curriculum Chair   12/10/15   _Date_

Approved by Academic Senate: Academic Senate Chair   1-8-16   _Date_

Endorsed by: Chief Academic Officer   1-7-16   _Date_

Approved by: Chancellor   1-8-16   _Date_