

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

# REPLACE PROGRAM CODE

Date: 4/15/2016

## REQUESTOR CONTACT INFORMATION

Name Kathlen Lee Campus Kauai CC  
 Title Educational Specialist Email kathlen@hawaii.edu  
 Office/Dept Academic Affairs Phone 808-245-8204

## NEW PROGRAM CODE TO CREATE

Institution KAU - Kauai CC Campus KAU - Kauai CC  
 Level UG - Undergraduate Effective Term Fall 2016

	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>TR</u>	<u>Trade Technology</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>CA</u>	<u>Certificate of Achievement</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>ET</u>	<u>Electronics Technology</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>NAS</u>	<u>Network Admin &amp; Security</u>	<input 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.

2 years

#### 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

EXISTING PROGRAM CODE TO REPLACE

Program Code	CA-ET-NSAD	Program Description	Electronics Technology
Institution	KAU - Kauai CC	Campus	KAU - Kauai CC
College	INSTRUCTIONAL	Department	TR
Level	UG - Undergraduate		

Are current students "grandfathered" under the program code?  Yes  No  
 Should the old program code be available for use in Banner?  Yes  No

Effective Fall 2016 , old program code will no longer be available to admit or recruit students.  
Term (ie. Fall 2014)

*This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.*

Effective Fall 2016 , old program code will no longer be available to award degree to students.  
Term (ie. Fall 2014)

*This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.*

ATTACHMENTS

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

- BOR Meeting Minutes & Supporting Documents <sup>1</sup>  Curriculum  
 Memo with President's Approval, with cc to VPAA, to change existing code <sup>2</sup>

**Chancellor Approved:** Certificates (eg. Certificate of Achievements, Certificates of Competence, Subject Certificates, Academic Subject Certificates) & Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to VPAA to change existing code and create new code  Curriculum

VERIFICATIONS

**Registrar:**

Kailana Soto \_\_\_\_\_ *Kailana Soto* \_\_\_\_\_ 4/24/16  
 Print Name Signature Date

**Financial Aid Officer:**

Jeff Anderson \_\_\_\_\_ *Jeff Anderson* \_\_\_\_\_ 4/27/16  
 Print Name Signature Date

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

Suzette Robinson \_\_\_\_\_ *Suzette Robinson* \_\_\_\_\_ 6/14/16  
 Print Name Signature Date

<sup>1</sup> Required for change in degree.

<sup>2</sup> Required for program title with no substantive change in curriculum.



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## Re: Revised IRAO Codes

1 message

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**Suzette Robinson** <suzetter@hawaii.edu>

Thu, May 19, 2016 at 1:19 PM

To: James Dire <dire@hawaii.edu>

Cc: Kathleen Lee <kathlen@hawaii.edu>, Gayle Ishii <gaylei@hawaii.edu>, Princess Soares <pfrederi@hawaii.edu>

Jim confirmed that KauCC's cybersecurity program does not have the same courses as the ISA and ISSP programs and therefore has a different academic focus.

Suzette

On Thu, May 19, 2016 at 8:56 AM, James Dire <dire@hawaii.edu> wrote:

It is a different program than the others and should have a unique code.  
Mahalo,

James R. Dire, Ph.D.  
Vice Chancellor for Academic Affairs  
University of Hawai'i-Kaua'i Community College  
3-1901 Kaumualii Highway  
Lihue, HI 96766

Voice (808) 245-8229  
Fax (808) 245-0101

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**From:** Kathleen Lee <kathlen@hawaii.edu>

**Date:** Thursday, May 19, 2016 8:53 AM

**To:** Gayle Ishii <gaylei@hawaii.edu>

**Cc:** James Dire <dire@hawaii.edu>, Suzette Robinson <suzetter@hawaii.edu>, Princess Soares <pfrederi@hawaii.edu>

**Subject:** Re: Revised IRAO Codes

Hi Gayle,

I forwarded your inquiry to the proposer of the Electronics Technology program action request and he said the following:

Information Assurance and Information security is different from Network Security. Information Assurance ... relates to protecting data (i.e. databases, documents, etc.) which relates more to software and programming. Network Security is protecting the network from internal and external malicious attacks, which more relates to securing hardware, analyzing traffic going across the network and mitigating the malicious traffic. In reality Network Security is the first line of defense before you get to the information.

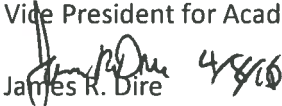
Any comments, Jim? Based off of what the proposer has said, I would prefer to keep the




April 8, 2016

**MEMORANDUM**

TO: Risa E. Dickson  
Vice President for Academic Affairs

VIA:   
James R. Dire  
Vice Chancellor for Academic Affairs

FROM: Helen A. Cox   
Chancellor

SUBJECT: Curriculum Approval

I have approved the following on 4/4/2016 effective Fall 2016.

**New**

*Electronics Technology*

Certificate of Competence (C.O.) – Network Security Specialist

**Program certificate/title change**

*Electronics Technology:*

Certificate of Achievement (C.A.) – Network Administrator and Security (previously Cisco Network and System Administration Administrator)

kl

c Division Chair  
Gordon Talbo

**Kaua'i Community College  
University of Hawai'i  
Program Action Request**

1. Type of Program Action:     New             Modification             Deletion

PRESENT	CO (Cisco I)	CO (Cisco II)	CO (Electronics)	CO (Computer Support Specialist)	CA	CA (Cisco Network and System Administration Administrator)	AS	PROPOSED	CO (Cisco I)	CO (Cisco II)	CO (Electronics)	CO (Computer Support Specialist)	CO (Network Security Specialist)	CA	CA (Network Administrator and Security)	AS
ETRO 18			3	3		3		ETRO 18			3	3			3	
ETRO 120					3		3	ETRO 120						3		3
ETRO 120L					1		1	ETRO 120L						1		1
ETRO 121			2		2		2	ETRO 121			2			2		2
ETRO 122					3		3	ETRO 122						3		3
ETRO 122L					1		1	ETRO 122L						1		1
ETRO 140B	3			3		3	3	ETRO 140B	3			3	3		3	3
ETRO 140C	3					3	3	ETRO 140C	3				3		3	3
ETRO 143					3		3	ETRO 143						3		3
ETRO 143L					1		1	ETRO 143L						1		1
ETRO 161							3	ETRO 161								3
ETRO 187				4		4	4	ETRO 187				4	4		4	4
ETRO 240B		3				3	3	ETRO 240B		3					3	3
ETRO 240C		3				3	3	ETRO 240C		3					3	3
ETRO 244						4		ETRO 244					4		4	
ETRO 275						3		ETRO 275					3		3	
ETRO 280							3	ETRO 280								3
ICS 100			3													
ICS 101					3	3	3	ICS 101			3			3	3	3
ICS 111					4		4	ICS 111						4		4
MATH 103							3	MATH 103								3
SCI 122							3	SCI 122								3
SCI 122L							1	SCI 122L								1
<b>Cultural Environment: Core Options</b>							3	<b>Cultural Environment: Core Options</b>								3
<b>Oral Communication: SP 251</b>					3	3	3	<b>Oral Communication: SP 251</b>						3	3	3
<b>Social Environment: Core Options</b>							3	<b>Social Environment: Core Options</b>								3
<b>Written Communication: ENG 100</b>					3	3	3	<b>Written Communication: ENG 100</b>						3	3	3
<b>TOTALS</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>27</b>	<b>35</b>	<b>62</b>	<b>TOTALS</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>17</b>	<b>27</b>	<b>35</b>	<b>62</b>

A.S. DEGREE, Updated Spring 2016		
Category	Cr	Course Options
Cultural Environment	3	Any Humanities course numbered 100 or higher or any DA, DH, or DL designation
Social Environment	3	Any Social Science course numbered 100 or higher or any DS designation

2. **Program Type:**

- |   |   |
|---|---|
| <input type="checkbox"/> Associate in Applied Science (AAS)                         | <input checked="" type="checkbox"/> Certificate of Achievement (CA) |
| <input type="checkbox"/> Associate in Arts (AA)                                     | <input checked="" type="checkbox"/> Certificate of Competence (CO)  |
| <input type="checkbox"/> Associate in Arts–Concentration                            | <input type="checkbox"/> Academic Subject Certificate (ASC)         |
| <input checked="" type="checkbox"/> Associate in Science (AS)                       |   |
| <input type="checkbox"/> Associate in Science Natural Sciences–Concentration (ASNS) |   |

3. **Program Title:** Electronics Technology

4. **Program Description (for catalog):**

Students enrolled in the Electronics Technology program receive an education in basic electronics, computer technology, computer programming, RF and optical systems, and networking that includes knowledge of DC/AC/Semiconductor circuits, digital electronics, lasers, computers, and networks. Graduates may enter the workforce as entry-level technicians or continue their education in Electronics or Computer Engineering Technology baccalaureate programs.

**Program Admission Requirements:**

(1) Placement in ENG 100; (2) "C" or higher in MATH 82X or placement in MATH 103; or (3) approval of instructor.

**Graduation Requirements:**

None.

5. **List Program Student Learning Outcomes** that were approved by the Assessment Committee on 9/3/14:

1. Demonstrate an appropriate mastery of the knowledge, techniques, and skills in the use of contemporary tools of electronics technology.
2. Demonstrate theoretical and technical knowledge of components, systems, and control processes that govern the outcomes of systems for purposes of operation, maintenance, and improvement.
3. Apply current technical knowledge in the analysis and solution of technical problems.
4. Function effectively on teams interacting with all levels of personnel, fully participating, and adding to the dynamics of the group.
5. Communicate effectively orally, in writing, and by means of the various electronic communication devices.
6. Exhibit professional, ethical, and social responsibilities showing a respect for diversity and an awareness of contemporary professional, societal, and global issues.

7. Explain the importance of commitment to quality, timeliness, and continuous professional improvement in adapting to emerging technologies.

6. **Proposed Date of First Offering:** Fall 2016

7. **Is this program offered at another UH campus?**  Yes  No

If Yes, specify campus. If No, why is this program offered at KCC:

Hawai'i Community College and UH Maui College.

8. **Reason for this Program Action:**

The Cisco Network Administrator Certificate of Achievement (CA) has been changed to Network Administrator and Security CA. As part of the Cyber Security program associated with the TAACCCT-IV grant (2014-2018), the grant team recommended this name change to better identify the purpose of the CA. In addition, the name change will represent the student to potential employers more effectively.

The proposed Network Security Specialist Certificate of Competence (CO) was proposed as part of the TAACCCT-IV grant that was approved for the 2014-15 year. The grant is directed at enhancing the much needed Cyber Security opportunities at Kaua'i Community College. The purpose of this CO is to provide the knowledge and skills to prepare students for an entry level Network Security position. This CO is a subset of the Network Administrator and Security CA for students who are upgrading their skill set in cyber security or just enhancing their résumé for an entry level position. The goal of this CO is to encourage students to continue on to the CA, and eventually to the AS in Electronics Technology.

9. **Board of Regents Approval Needed:**  Yes  No

10. **Indicate the number of semesters required to complete each certificate and degree.**

Certificate/Degree	Number of Semesters
Cisco I CO	2
Cisco II CO	2
Electronics CO	1
Computer Support Specialist CO	1
Network Security Specialist CO	3
Electronics CA	4
Network Administrator and Security CA	4
Electronics AS	4

11. **Program Course Sequencing:** Complete one for each certificate/degree if sequencing is not provided with question #1.

Cisco I Certificate of Competence	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 140B	3
Spring Semester 2	
ETRO 140C	3

Cisco II Certificate of Competence	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 240B	3
Spring Semester 2	
ETRO 240C	3

Electronics Certificate of Competence	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 18	3
ETRO 121	2
ICS 101	3

Computer Support Specialist Certificate of Competence	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 18	3
ETRO 140B	3
ETRO 187	4

Network Security Specialist Certificate of Competence	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 140B	3
ETRO 187	4
Spring Semester 2	
ETRO 140C	3
ETRO 275	3
Spring Semester 3	
ETRO 244	4

Electronics Certificate of Achievement	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 143	3
ETRO 143L	1
ICS 101	3
SP 251	3
Spring Semester 2	
ENG 100	3
ICS 111	4
Fall Semester 3	
ETRO 120	3
ETRO 120L	1
ETRO 121	2
Spring Semester 4	
ETRO 122	3
ETRO 122L	1

Network Administrator and Security Certificate of Achievement	
Fall Semester 1	
Course Alpha/No.	Credits
ENG 100	3
ETRO 140B	3
ICS 101	3
Spring Semester 2	
ETRO 18	3
ETRO 140C	3
Fall Semester 3	
ETRO 187	4
ETRO 240B	3
SP 251	3
Spring Semester 4	
ETRO 240C	3
ETRO 244	4
ETRO 275	3



Electronics Associate in Science Degree	
Fall Semester 1	
Course Alpha/No.	Credits
ETRO 140B	3
ETRO 143	3
ETRO 143L	1
ICS 101	3
MATH 103	3
SP 251	3
Spring Semester 2	
ETRO 140C	3
ETRO 280	3
ICS 111	4
SCI 122	3
SCI 122L	1
Social Environment: Core Options	3
Fall Semester 3	
ENG 100	3
ETRO 120	3
ETRO 120L	1
ETRO 121	2
ETRO 187	4
ETRO 240B	3
Spring Semester 4	
Cultural Environment: Core Options	3
ETRO 122	3
ETRO 122L	1
ETRO 161	3
ETRO 240C	3

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PROGRAM ACTION REQUEST APPROVAL

PROGRAM: Electronics Technology Certificates of Competence, Certificates of Achievement, and Associate in Science Degree

Effective date: Fall 2016

PSLOs Approved by: \_\_\_\_\_  
Assessment Committee Chairperson Date

Proposed by: \_\_\_\_\_  
Originator Date

Requested by: \_\_\_\_\_  
Department/Division Chairperson Date

Approved by: \_\_\_\_\_  
Curriculum Committee Chairperson Date

\_\_\_\_\_  
Vice Chancellor for Academic Affairs Date

\_\_\_\_\_  
Chancellor Date