

New Program Code **Modify Program Code**

Date: 2/5/2018

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 Community College Campus KAU - Kauai 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>TR</u>	<u>Trade Technology</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>ET</u>	<u>Electronics Technology</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>PROG</u>	<u>Programming</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.

1 year

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

IRAO USE ONLY: DATE RECEIVED

ADDITIONAL COMMENTS

Requesting to use the PROG code as a concentration for the addition of a new Certificate of Competence in Programming under the Electronics Technology program. The program coordinator confirmed that the CIP connected to the PROG code is related to the new certificate.

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: Electronics Technology
 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)

Kailana Soto

 2/28/18
Signature Date


Financial Aid Officer
(Print Name)

Jeff Anderson

 2/28/18
Signature Date

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

Suzette Robinson


 4/4/18
Signature Date




February 5, 2018

MEMORANDUM

TO: Donald Straney
Vice President for Academic Planning and Policy

VIA: 
James R. Dife
Vice Chancellor for Academic Affairs

FROM: Helen A. Cox 
Chancellor

SUBJECT: Curriculum Approval

I have approved the following on 2/2/2018 effective Fall 2018.

Program concentration title change

Changing the following concentration titles under the Electronics Technology program:

- Certificate of Competence (C.O.) in Computer Support Specialist changing to Computer Support (removing "Specialist" from title)
- Certificate of Competence (C.O.) in Network Security Specialist changing to Network Security (removing "Specialist" from title)

New program concentration

Adding the following concentration to the Electronics Technology program:

- Certificate of Competence (C.O.) in Programming

kl

c Trade Technology Division Chair

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

VCAA Office Use Only	2018
Effective Fall	2/18
Date Approved	4/16
Replaces	

1. Type of Program Action: New Modification Deletion

PRESENT	CO (Cisco I)	CO (Cisco II)	CO (Electronics)	CO (Computer Support Specialist)	CO (Network Security Specialist)	CA	CA (Network Administrator and Security)	AS	PROPOSED	Cisco I CO	Cisco II CO	Electronics CO	Computer Support CO	Programming CO	Network Security CO	Electronics CA	Network Administrator and Security CA	AS	
									EE 160					4					
ETRO 18			3	3			3		ETRO 18			3	3				3		
ETRO 120						3		3	ETRO 105							4		4	
ETRO 120L						1		1											
ETRO 121			2			2		2	ETRO 101			3				3	3	3	
ETRO 122						3		3	ETRO 106							4		4	
ETRO 140B	3			3	3		3	3	ETRO 140B	3			3		3		3	3	
ETRO 140C	3				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 122L						1		1											
									ETRO 210									3	
ETRO 240B		3					3	3	ETRO 240B		3						3		
ETRO 240C		3					3	3	ETRO 240C		3						3		
ETRO 244					4		4		ETRO 244						4		4		
ETRO 275					3		3		ETRO 275					3	3		3		
ETRO 280								3	ETRO 280									3	
ETRO 187				4	4		4	4											
									ETRO 287				3		3		3	3	
ICS 101			3			3	3	3											
ICS 111						4		4	ICS 111					3		3		3	
MATH 103								3	MATH 103									3	
SCI 122								3	SCI 122									3	
SCI 122L								1	SCI 122L									1	
Cultural Environment: Core Options								3	Cultural Environment: Core Options									3	
									Electives*									6	
Oral Communication: SP 251						3	3	3	Oral Communication: SP 251								3	3	3
Social Environment: Core Options								3	Social Environment: Core Options									3	
Written Communication: ENG 100						3	3	3	Written Communication: ENG 100								3	3	3
TOTALS	6	6	8	10	17	27	35	62	TOTALS	6	6	6	9	10	16	24	31	61	

*Electives		
Civil Track	6	GIS 189 and GIS 200
Electronics Track	6	ETRO 212** and (ETRO 257 and ETRO 296**)
Network Track	6	ETRO 240B and ETRO 240C
Programming Track	6	EE 160 and ETRO 275
Substitutions		ICS 111 <--> EE 160

**Not yet approved

A.S. DEGREE, Updated Fall 2018		
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.

To meet graduation requirements, all programs require a cumulative GPA of 2.0 or higher for all courses applicable toward the certificate or degree. Include any additional graduation requirements:

None.

5. List Program Student Learning Outcomes that were approved by the Assessment Committee on 9/12/14:

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 2018

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:**

Changes are made to align with UH Maui College and Hawai'i CC and have UH system consistency. Program changes also address needs of local employers. These changes are specifically:

- The electronics course sequences of ETRO 120 and ETRO 120L, as well as ETRO 122 and ETRO 122L are being replaced with a three-course sequence: ETRO 105, ETRO 106, and ETRO 210. This gives students sufficient time to cover DC, AC, and semiconductor circuits.
- ETRO 121 is being replaced by ETRO 101 with more electronics preparatory content included.
- ETRO 212, a new circuits course, is currently being worked on and will align with UH Maui College.
- Cisco classes (ETRO 240B and ETRO 240C) are being removed as an Associate in Science degree requirement, but they will still be offered as part of the requirements for the certificates.
- Electives are added to give electronics students technology focus area options.
- A new CO is being added: Programming. Students completing this certificate will be able to perform programming jobs in the industry.

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 CO	1
Programming CO	2
Network Security 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	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 140B	3
Spring Semester 2	
ETRO 140C	3
Total Credits	6

Cisco II Certificate of Competence	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 240B	3
Spring Semester 2	
ETRO 240C	3
Total Credits	6

Electronics Certificate of Competence	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 18	3
ETRO 101	3
Total Credits	6

Computer Support Certificate of Competence	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 18	3
ETRO 140B	3
ETRO 287	3
Total Credits	9

Programming Certificate of Competence	
Course Alpha/No.	Credits
Fall Semester 1	
EE 160	4
Spring Semester 2	
ETRO 275	3
ICS 111	3
Total Credits	10

Network Security Certificate of Competence	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 140B	3
ETRO 287	3
Spring Semester 2	
ETRO 140C	3
ETRO 275	3
Fall Semester 3	
ETRO 244	4
Total Credits	16

Electronics Certificate of Achievement	
Course Alpha/No.	Credits
Fall Semester 1	
ETRO 101	3
ETRO 143	3
ETRO 143L	1
SP 251	3
Spring Semester 2	
ENG 100	3
ICS 111	3
Fall Semester 3	
ETRO 105	4
Spring Semester 4	
ETRO 106	4
Total Credits	24

Network Administrator and Security Certificate of Achievement	
Course Alpha/No.	Credits
Fall Semester 1	
ENG 100	3
ETRO 140B	3
Spring Semester 2	
ETRO 18	3
ETRO 140C	3
Fall Semester 3	
ETRO 240B	3
ETRO 287	3
SP 251	3
Spring Semester 4	
ETRO 240C	3
ETRO 244	4
ETRO 275	3
Total Credits	31

Electronics Associate in Science Degree	
Course Alpha/No.	Credits
Fall Semester 1 (16)	
ENG 100	3
ETRO 101	3
ETRO 105	4
ETRO 140B	3
MATH 103	3
Spring Semester 2 (16)	
ETRO 106	4
ETRO 140C	3
ETRO 287	3
ICS 111	3
Social Environment: Core Options	3
Fall Semester 3 (12-13)	
Elective*	3
ETRO 143	3
ETRO 143L	1
ETRO 210	3
SP 251	3
Spring Semester 4 (16)	
Cultural Environment: Core Options	3
Elective*	3
ETRO 161	3
ETRO 280	3
SCI 122	3
SCI 122L	1
Total Credits	61

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PROGRAM ACTION REQUEST APPROVAL

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

Effective date: Fall 2018

PSLOs Approved by: Mary C. Summers 11 Sept 2017
Assessment Committee Chairperson Date

Proposed by: Bryanne Purwin 9-11-17
Originator Date

Requested by: Ronda Jalbo 11/11/17
Department/Division Chairperson Date

Approved by: [Signature] 11/17/2017
Curriculum Committee Chairperson Date

James R. [Signature] 2/1/18
Vice Chancellor for Academic Affairs Date

Helen A. [Signature] 2/2/18
Chancellor Date