

New Program Code     Replace Program Code

Date: 02/05/2024

**REQUESTOR CONTACT INFORMATION**

Name Pheng Xiong Campus UH Manoa  
 Title University Registrar Email pxiong@hawaii.edu  
 Office/Dept Office of the Registrar Phone 808-956-5322

**NEW PROGRAM CODE TO CREATE**

Institution UH Manoa Campus UH Manoa  
 Level Graduate Effective Term Fall 2024

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>50</u>	<u>Graduate Division</u>	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) <u>ECE</u>	<u>Electrical&amp;ComputerEngineering</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>MS</u>	<u>Master of Science</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>ECE</u>	<u>Electrical&amp;ComputerEngineering</u>	<input checked="" type="checkbox"/> See Banner form STVMAJR
Concentration	(4) _____	_____	<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: \_\_\_\_\_

See comments below.

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.* 4.0

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

**EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE**

Program Code	EE-MS	Program Description	Electrical Engineering-MS
Institution	MAN	Campus	UH Manoa
College	Graduate Division	Department	Electrical Engineering
Level	GR		

Are current students "grandfathered" under the program code?  Yes  No

Should the old program code be available for use in Banner?  Yes  No

**Effective** 202510, **old program code will no longer be available to admit or recruit students.**  
Term (ie. Fall 2020)

*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**  , **old program code will no longer be available to award degree to students.**  
Term (ie. Fall 2020)

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

**ATTACHMENTS**

**BOR Approved:** Sole-credential Certificate, Associate, 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...



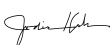

BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_\_

Chancellor approved within an authorized BOR program. BOR Program: \_\_\_\_\_

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.*

<p><b>Registrar</b> (Print Name)</p> <p>Pheng Xiong</p> <hr/> <p> </p> <p>Signature _____ Date _____</p>	<p><b>Financial Aid Officer</b> (Print Name)</p> <p>Jodie Kuba</p> <hr/> <p> </p> <p>Signature _____ Date _____</p>	<p><b>For Community Colleges, verification of consultation with OVPCC Academic Affairs:</b></p> <p>Tammi Oyadomari-Chun</p> <hr/> <p>Signature _____ Date _____</p>
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**ADDITIONAL COMMENTS**

See Subject Code & Program Name Change Approval. As of 2/5/2024, there are 38 students in the EE-MS program.

New Program Code     Replace Program Code

Date: 02/05/2024

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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

**EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE**

Program Code	EE-PHD	Program Description	Electrical Engineering-PHD
Institution	MAN	Campus	UH Manoa
College	Graduate Division	Department	Electrical Engineering
Level	GR		

Are current students "grandfathered" under the program code?  Yes  No

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Term (ie. Fall 2020)

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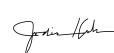

BOR approved certificate. BOR Meeting/Approval Date: \_\_\_\_\_

Chancellor approved within an authorized BOR program. BOR Program: \_\_\_\_\_

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

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**ADDITIONAL COMMENTS**

See Subject Code & Program Name Change Approval. As of 2/5/2024, there are 22 students in the EE-PHD program.



UNIVERSITY  
of HAWAII®  
MĀNOA

DTS 23629

Department of Electrical and Computer Engineering


GÜRDAL ARSLAN  
ASSOCIATE PROFESSOR & GRADUATE CHAIR  
phone: 808-456-3432  
email: gurdal@hawaii.edu

June 2, 2023


MEMORANDUM


TO: David Lassner  
President

VIA: Debora Halbert  
Vice President for Academic Strategy

VIA: Michael Bruno  
Provost  for Michael Bruno


VIA: Laura E. Lyons   
Interim Vice Provost for Academic Excellence

VIA: Julienne K. Maeda   
Interim Dean, Graduate Division

VIA: Brennon Morioka   
Dean, College of Engineering

VIA: Wayne Shiroma   
Department Chair, Department of Electrical Engineering and Computer Engineering

FROM: Gurdal Arslan  
Graduate Chair, Electrical Engineering

 Digitally signed by  
Gurdal Arslan  
Date: 2023.06.05  
20:38:57 +03'00'

SUBJECT: Name Changes for Electrical Engineering Graduate Program and Degrees

SPECIFIC ACTIONS REQUESTED:

It is requested that the President approve a course subject code change and a graduate degree name change from Electrical Engineering to Electrical and Computer Engineering for the MS and PhD degrees.

RECOMMENDED EFFECTIVE DATE: Fall 2024 semester.

ADDITIONAL COST: No additional cost.

BACKGROUND/PURPOSE:

In Fall 2021, the department changed its name from Electrical Engineering to Electrical and Computer Engineering. The reason for this name change was that Electrical and Computer Engineering more appropriately describes the subject matters of interest to our faculty and the degree programs of our students given the department's strong focus on the computer engineering topics such as cybersecurity, ubiquitous computing, machine learning, and data science. At that time, the graduate degrees (MS and PhD in EE) were not changed because the department's focus was on the undergraduate program and the potential repercussions of changing the graduate degree names had not been yet considered. At this time, we would like to request the MS and PhD degree names match the department name of Electrical and Computer Engineering. This name change aligns our MS and PhD in ECE with similar graduate programs elsewhere and does not require any additional resources.

This request also includes a course subject code change for all department courses from EE to ECE. This change was not requested when the department name was changed because of the incremental approach taken by the department to update and align its programs with similar programs in the US while ensuring that such changes do not have unintended consequences. At this point, as in the case of graduate degree names, the department is confident that the subject code change would better reflect the contents of the courses taught in our program and does not require any additional resources.

SPECIFIC CHANGES:

Change the graduate degrees from a MS and PhD in Electrical Engineering (EE) to:

- MS and PhD in Electrical and Computer Engineering (ECE)

Change course subject code from EE to ECE

ACTION RECOMMENDED:

It is recommended that the President approve a course subject code change and a graduate degree name change from Electrical Engineering to Electrical and Computer Engineering for the MS and PhD degrees.

*Reviewed by CCAO 7/19/23, VCAAs consulted with respective campuses, no concerns received.*

David Lassner  
June 2, 2023  
Page 3

**APPROVED/DISAPPROVED:**



Digitally signed by David Lassner  
Date: 2023.09.13 15:03:07 -10'00'

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David Lassner, President

Date

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cc:

April Quinn, Interim Vice Provost for Global Engagement & Director of Program  
Development and Review  
Pheng Xiong, University Registrar

Attachments:



**UNIVERSITY**  
**of HAWAII®**  
**MĀNOA**

March 15, 2021

**MEMORANDUM**

TO: Michael Bruno  
Provost

VIA: Laura E. Lyons *Laura E. Lyons*  
Associate Vice Chancellor for Academic Affairs

VIA: Brennon Morioka *Brennon Morioka*  
Dean, College of Engineering

FROM: Wayne Shiroma *Wayne Shiroma*  
Chair, Department of Electrical Engineering

SUBJECT: PROPOSED NAME CHANGE FROM DEPARTMENT OF ELECTRICAL ENGINEERING  
TO DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

SPECIFIC ACTION REQUESTED

It is requested that the Provost approve a name change of the Department of Electrical Engineering to the Department of Electrical and Computer Engineering within the College of Engineering, University of Hawai'i at Mānoa.

RECOMMENDED EFFECTIVE DATE

Fall 2021

ADDITIONAL COST

There are minimal costs dealing with stationery and web changes.

PURPOSE

The faculty of the Department of Electrical Engineering, College of Engineering, requests to change the name of our department to the Department of Electrical and Computer Engineering. The name change more appropriately describes the subject matters of interest to our faculty and the degree programs of our students, which include the Bachelor of Science degree in Electrical Engineering and Bachelor of Science degree in Computer Engineering. The name change does not involve any modifications to the degree requirements for our undergraduate and graduate programs.



### *A Proud Past...A Promising Future*

Electrical engineering courses have been taught at the University of Hawai'i since the 1910s<sup>1</sup>. The Department of Electrical Engineering was formed in 1959 with a baccalaureate degree program. The first graduating class received the BS degree in 1961. Our MS degree program started in 1963, and our PhD degree program started in 1966. The first PhD degree in electrical engineering was granted in 1969<sup>2</sup>.

In June 1971, a group of electrical engineering faculty under the leadership of Dr. Norman Abramson successfully demonstrated ALOHNET – the first wireless packet data network that led directly to the development of Ethernet and personal wireless communication technologies. Fifty years later, ALOHNET is one of the most celebrated achievements in electrical engineering, and is the primary one that put the University of Hawaii's Department of Electrical Engineering on the map.

Since then, the Department built on that early foundation, expanding its teaching and research activities to computers (algorithms, security, networking, hardware, and software), electro-physics (solid-state devices and sensors, analog, circuit design, and microwaves and photonics), and systems and data science (telecommunications, automatic controls, signal and image processing, and machine learning). Over 50% of our 18 faculty are specialists in the computer and systems and data science areas.

Notable programs include the \$5 million NSF CyberCorps Scholarship for Service Program (SFS); the NSA/DHS National Center of Academic Excellence in Cyber Defense Research (CAE-R); and UHM's participation in the \$25 million NSF Center for Science of Information (focusing on big data, information theory, and machine learning).

### *The Case for a Name Change*

For most of its history, the Department had only one baccalaureate degree program: the BS Electrical Engineering, with three tracks in computers, electro-physics, and systems. In 2010, the computer track transitioned into the BS Computer Engineering program and soon became the College of Engineering's most rapidly growing degree program. In 2016, ABET retroactively accredited the BS Computer Engineering degree program. A considerable percentage of our Department's Outstanding Graduating Seniors has in fact been computer engineering majors<sup>3</sup>, and several have secured jobs at Fortune 500 companies such as Apple, Microsoft, Google, and Amazon.

Given the Department's two accredited baccalaureate degree programs, and its strong focus on cybersecurity, ubiquitous computing, machine learning, and data science, we believe we have a strong case for renaming our department as the Department of Electrical and Computer Engineering.

In fact, UH Mānoa has eight peer and nine benchmark institutions, of which six of the peer and six of the benchmark institutions already have Electrical and Computer Engineering departments. Our renaming request is consistent with the majority of these institutions.

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<sup>1</sup> <https://www.eng.hawaii.edu/wp-content/uploads/2021/03/historyengineering.pdf>

<sup>2</sup> <https://ee.hawaii.edu/student/index.php?stc=2>, <https://www.eng.hawaii.edu/about/history/>

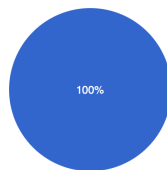
<sup>3</sup> <http://ee.hawaii.edu/events/index.php?ect=9>

There are no conflicts with names and primary interests in other departments at UH Mānoa. Computer science faculty and students are in the Department of Information and Computer Sciences (ICS). It should be noted that the peer and benchmark institutions that have Electrical and Computer Engineering departments also have Computer Science departments, Information and Computer Sciences departments, or Computer Science and Engineering departments/schools.

During the period March 10–12, 2021, polls were conducted amongst the Department’s faculty and students. The results below show overwhelming support for the name change.

Are you in favor of the UH Manoa Department of Electrical Engineering changing its name to the Department of Electrical and Computer Engineering?

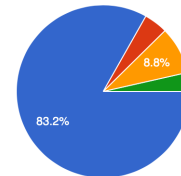
18 responses



Responses from EE faculty and staff

113 responses

● Yes  
● No  
● Undecided  
● Other - use the comments section below



Responses from EE students

## BACKGROUND

*Pursuant to Board of Regents Policy, RP 5.201 Instructional Programs*

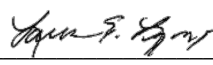
### *C. Naming of Programs (Cross reference RP 11.203)*

- 1. Programs are given a name at the time they are approved by the board. Thereafter, the president may approve changes in the functional names of academic programs and credentials as may become necessary to remain current with the terminology and focus of their fields and which involve no significant change in the program requirements.*
- 2. No program shall be given a name to honor a person without approval of the board.*

## ACTION RECOMMENDED

It is recommended that the Provost approve a name change of the Department of Electrical Engineering to the Department of Electrical and Computer Engineering within the College of Engineering, University of Hawai’i at Mānoa.

APPROVED / DISAPPROVED

 for Michael Bruno    9 April 2021  
 Signature \_\_\_\_\_ Date  
 Michael Bruno, Provost



**UNIVERSITY  
of HAWAII'**  
**SYSTEM**

**Michael Ng**  
Budget Director

**March 24, 2021**

**TO: Michael Bruno**  
**Provost**

**FROM: Michael Ng** Digitally signed by Michael Ng  
DN: cn=Michael Ng, o=University of  
Hawaii, ou=University Budget Office,  
email=ng3@hawaii.edu, c=US  
Date: 2021.03.24 09:53:09 -1010  
**Budget Director**

**SUBJECT: Requested Change in Name from Department of Electrical Engineering to  
Department of Electrical and Computer Engineering**

**This is in response to the March 15, 2021 request to change the name of the  
Department of Electrical Engineering to the Department of Electrical and Computer  
Engineering.**

**Per the referenced APM A3.101.9 consultation request, the University Budget Office is  
of the opinion that the proposed change in the organizational segment title presented in  
the above referenced Memorandum does not duplicate and will not be confused with  
the title of any other organization or unit within the University.**

**If you have any questions, please contact me at [ng23@hawaii.edu](mailto:ng23@hawaii.edu) or 956-7323. Thank  
you.**

**Attachment**

**2442 Campus Road  
Admin Services Bldg 1, Room 101  
Honolulu, Hawaii 96822  
Telephone: (808) 956-6071  
Fax: (808) 956-9002  
An Equal Opportunity/Affirmative Action Institution**