

IRAO OFFICE USE ONLY	
Received	4/20/17
In Banner	
MTVCOMP/Codeset	
Master Curriculum	
CIP Code	15.0406
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: March 20, 2017

REQUESTOR CONTACT INFORMATION

Name Jennie Thompson Campus Leeward CC
 Title Division Chair Email jenniet@hawaii.edu
 Office/Dept Math and Sciences Division Phone 455-0252

NEW PROGRAM CODE TO CREATE

Institution LEE - Leeward CC Campus LEE - Leeward 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 STVCOLL
Department	(4) <u>MS</u>	<u>Math and Sciences</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>AS</u>	<u>Associate in Science</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>IIT</u>	<u>Integrated Industrial Tech</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:

New program Associate in Science for the Integrated Industrial Technology where no code exists for this type of program.

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.

Two Academic Years 2.0000

Special Program Designations

See *Special Program Designations Code Definitions on IRAIO 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:

VERIFICATIONS

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


Registrar:

<u>Grant Helgeson</u> Print Name	<u></u> Signature	<u>3/22/17</u> Date
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Financial Aid Officer:

<u>Gregg Yoshimura</u> Print Name	<u></u> Signature	<u>3/22/2017</u> Date
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For Community Colleges, verification of consultation with OVPCC Academic Affairs:

<u>Suzette Robinson</u> Print Name	<u></u> Signature	<u>4/17/17</u> Date
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MINUTES

BOARD OF REGENTS MEETING

JANUARY 26, 2017

I. CALL TO ORDER

Chair Jan Sullivan called the meeting to order at 9:31 a.m. on Thursday, January 26, 2017, at the University of Hawai'i at Mānoa, Information Technology Building, 1st Floor Conference Room 105A/B, 2420 Correa Road, Honolulu, Hawai'i 96822.

Quorum (14): Chair Jan Sullivan; Vice Chair Benjamin Kudo; Vice Chair Randy Moore; Regent Simeon Acoba; Regent Eugene Bal; Regent Brandon Marc Higa; Regent Wayne Higaki; Regent David Iha; Regent Michael McEnerney; Regent Jeff Portnoy; Regent Lee Putnam; Regent Michelle Tagorda; Regent Ernie Wilson; and Regent Stanford Yuen.

Others in attendance: President/Interim UH-Mānoa (UHM) Chancellor David Lassner; Vice President for Academic Planning & Policy Risa Dickson; Vice President for Administration Jan Gouveia; Vice President for Community Colleges John Morton; Vice President for Legal Affairs/University General Counsel Carrie Okinaga; Vice President for Research & Innovation Vassilis Syrmos; Vice President for Information Technology/Chief Information Officer, Garret Yoshimi; Vice President for Budget & Finance/Chief Financial Officer Kalbert Young; UH-Hilo (UHH) Chancellor Donald Straney; UH-West O'ahu (UHWO) Chancellor Maenette Benham; Leeward Community College (LeeCC) Chancellor Manual Cabral; Honolulu Community College (HonCC) Chancellor Erika Lacro; Executive Administrator and Secretary to the Board Cynthia Quinn; and others as noted.

II. PUBLIC COMMENT PERIOD

The board received the following testimony:

1. As to Item IV.B.4, Update on Cancer Center of Hawai'i Business Plan, written testimony from Jeff Shonka and Stephen Tabussi, First Insurance Company of Hawai'i, Ltd., in support of Dr. Holcombe and the Cancer Center of Hawai'i.
2. As to Item VI.A.1 execution session on the update on executive searches, written testimony from David Mihaila, regarding concerns about UH administration.
3. As to Item IV.A.9 approval of resolution reaffirming UH commitments to undocumented and all students,
 - a. Written testimony from Dwight Holloway (UHM law school student), regarding concerns about fiscal responsibility and compliance with state charter.
 - b. Written testimony from Paul Chandler (UHM Faculty), Kim Falinski, and Subramanian Shankar (UHM Faculty), in support.

- c. Written testimony from April Bautista (UHM alum), Gaye Chan (UHM faculty), Linda Krieger (UHM law school faculty), Andres Gonzalez (UHM law school student), Gregory Seiichi Pōmaika'i Gushiken (UHM faculty) in support with suggested edits, and referencing a petition in support in circulation.
4. Marguerite Butler, Chair of the UHM Faculty Senate (UHMFS) Executive Committee provided oral testimony on two resolutions recently approved by the UHMFS calling for a revised committee structure for the University of Hawai'i Board of Regents, and endorsing a day of resistance on inauguration day Friday January 20, 2017.

III. REPORT OF THE PRESIDENT

President Lassner provided updates combining the president and chancellor report. Highlights included: progress on the nationally recognized STAR registration program milestones and goals; the National Oceanic and Atmospheric Administration announced the He'eia National Estuarine Research Reserve is now a living laboratory which will be managed in partnership with the State of Hawai'i through the UH Hawai'i Institute of Marine Biology; construction of the university's first design-build project, a state-of-the-art Life Sciences Building at UHM, will begin in fall 2017; the first critical first step in land planning and development for the university lands in West O'ahu was taken with the selection of Hunt Companies Inc. and Stanford Carr Development as the master project developers, and initial negotiations are underway; and development of the Systemwide Integrated Academic and Facilities Plan is progressing, with a task group meeting tomorrow and an update will be provided next month.

He concluded with a midyear progress report on board mandates on stewardship and management of UHM resources in preparation for the upcoming tuition schedule that is largely on target with a comprehensive report to be provided at the end of this academic year. He highlighted the following items: the energy plan is delayed to the next academic year in order to shift from an Energy Services Company (ESCO) model to a more comprehensive public-private partnership approach that includes financing, design-build construction, operations and maintenance into one pro forma to evaluate and complete; the enrollment management plan for recruitment and retention is in progress, with a systemwide group developing strategies to be implemented at the campus level, both currently and in the long term, that consider peer models, consolidate fragmented elements so that management is multi-element based, inclusive in all areas (e.g., recruitment, retention, advising, financial aid), and acknowledges the series of pressures unique to admission and retention.

The UHM master plan is progressing with the completion of a classroom utilization study that will be used in conjunction with an upcoming space study that will provide an overall baseline, and peer comparison. Also, through repurposing a planning contract, development is underway for a high level facility strategy for the campus long term plans and revenue development ideas that will include input from UH faculty, students, the community and stakeholders; the School of Architecture students are also looking at redevelopment ideas for the UHM lower campus. The space study will be a first step in

understanding space is institutional not departmental, and should be allocated based on needs and priorities. The space policies of other universities will be reviewed.

Efforts to academically and administratively restructure UHM is in process, with mini retreats with administrative and faculty leadership held to identify rationale for changes, ideas, and opportunities that enables UHM to move forward as a modern research university focused on holistic, 21st century need of the state, specifically UHM's focus as Hawai'i's research university distinguished from the UHWO comprehensive program, offering relevant and compelling program and degrees that includes professionals as a service and revenue opportunity, is responsive to current and emerging work force needs and strengthens the economy, and competitive for major research awards, enhances interdisciplinarity, and focused on areas of excellence. Grassroots engagement with the broader public is planned next month. In anticipation of no new growth in either tuition or state funding, position control is now centralized and managed by resources, needs, and campus priorities; stress testing budget models and peer comparisons are underway to guide allocations for next fiscal year.

President/Chancellor Lassner then yielded the floor to the chair of the UHM Faculty Senate, Marguerite Butler, who provided the board a handout entitled "Mānoa Brag Book, A sample of programs at UH Mānoa," and a slide presentation highlighting collaborative teaching programs and accomplishments of UHM faculty and students. Board Chair Sullivan noted that the presentation was exceptional and thanked faculty for the hard work to prepare the presentation.

IV. COMMITTEE REPORTS

A. Report from the Committee on Academic and Student Affairs

Committee Chair Putnam summarized the committee report attached. She expressed appreciation for the attendance by most regents, and that the 6 program actions were on the consent agenda. In the interest of time, she briefly referred to the reports and recounted the extensive discussion on the proposal for a new BA in Aeronautical Sciences, and need for additional information to return to the committee at a later date. She noted that there was an abstention to approving programs, and commented that concerns might be addressed upon expected major changes in policy and procedures to move towards a more integrated system that is student centered and evidence based, so reports can be in a more synthesized format. She summarized the reports received regarding the workforce planning tool as a major help in career planning, and program development; and a study by Ad Astra on classroom space and offerings, with plans to link to STAR to identify student needs, efficiency opportunities and bottlenecks, inform policies and procedures systemwide to provide a seamless web for pathways. Due to time constraints, the report on HGI metrics was deferred to this board meeting and includes performance based funding. No additional comments or questions from the board were raised.

B. Report from the Committee on Independent Audit

Committee Chair Moore referred to the summary report and recounted the

November board meeting when the full board delegated the responsibility to review and accept external auditor reports to the committee to meet a December state deadline; the committee did so, and received an education session. He noted that the external auditor commented that the UH financial system and finance staff were the strongest in two decades were the strongest in two decades, deficiency issues are being addressed, and the biggest risk being decentralized expenditure processes of federal grants was being addressed with training. No additional comments or questions from the board were raised.

V. ITEMS FOR DISCUSSION & APPROVAL

A. For Action

1. Consent Agenda:

- a) Minutes of the November 17, 2016 Meeting
- b) Approval of Provisional to Established Programs:
 - (1) Associate in Science in Natural Science, Leeward Community College
 - (2) Associate in Science in Early Childhood Education, University of Hawai'i at Maui College
 - (3) Bachelor of Arts in Second Language Studies, University of Hawai'i at Mānoa
- c) Approval of Established Programs:
 - (1) Master of Environmental Management, University of Hawai'i at Mānoa
 - (2) Bachelor of Science in Dietetics, University of Hawai'i at Mānoa
- d) Approval of New Provisional Programs:
 - (1) Associate in Science in Integrated Industrial Technology, Leeward Community College

Board Chair Sullivan explained that the items on the consent agenda include the draft minutes and items recommended for approval by the committees, and sought a motion to vote on all items at once. There were no objections. Regent Putnam moved to approve the consent agenda, seconded by Regent Wilson, and the motion carried unanimously.

2. Approval to Post Public Notices to Repeal Hawai'i Administrative Rules Title 20: A) Chapter 16, "Personal Records"; and B) Chapter 24, "University-Owned Faculty Housing Units.";
3. Approval to Hold Public Hearing Regarding Amendments to Hawai'i Administrative Rules Title 20, Chapter 10, "Delinquent Financial Obligations."
4. Approval to Hold Public Hearing Regarding The Simultaneous Repeal of Hawai'i Administrative Rules Title 20, Chapter 1, "Rules of Practice and Procedure", And The Adoption of a New Chapter 1, "Rules of Practice and Procedure."

5. Approval to Request Governor's Final Approval of Repeal of Hawai'i Administrative Rules, Title 20, Chapter 3, "University of Hawai'i Patent and Copyright Policy."

VP Okinaga introduced Associate Vice President for Legal Affairs Gary Takeuchi who provided a slide presentation as to the justification and rationale for the addition, modification, and repeal of Hawai'i Administrative Rules in the proposal. He explained that most amendments are to conform to law and bylaws, and provided a chart that illustrated the differences for each proposal and referred to the memo proposal that described the changes in detail.

Despite the need for efficient management, concern was raised regarding Item V.A.5 repealing Title 20, Chapter 3, "University of Hawai'i Patent and Copyright Policy," as to the impact on property rights that may involve substantial amounts of money or valuable assets of the state. There was significant concern and discussion regarding shifting from administrative rulemaking that is binding, and carries the effect as a rule of law and undergoes a more vigorous and definitive public process to policymaking that is not binding, does not carry the effect as a rule of law, and follows a less vigorous public process. Prior committee discussion was recounted regarding the need to be more agile and flexible, and this matter is better addressed in policy than administrative rules that are cumbersome to update and maintain, not required by statute, and widely recognized as ready to be reformed. It was explained that the policy process ensures open, publicly noticed meetings to provide the public opportunity to comment, as is currently done by many departments with less public process than the Board of Regents. The proposed policies are informed and aligned with the relevant administrative rules, collective bargaining agreements, and policies to create the proposed framework. The repeal proposal for Chapter 3 has gone through the full public hearing process and no objections were lodged.

There was a concurrence to vote on Items V.A.2, V.A.3, and V.A.4, and vote on Item V.A.5 separately. Vice Chair Moore moved to approve Items V.A.2, V.A.3, and V.A.4, seconded by Regent Iha, and the motion carried unanimously. It was commented that the discussion was appreciated. Vice Chair Moore then moved to approve Item V.A.5, seconded by Regent Wilson, the motion passed, except for Regent Acoba and Regent Iha, each voting no.

6. Appointment of Permitted Interaction Group for Independent Audit Committee

Vice Chair Moore explained the proposal reflects best practice for the audit committee to meet independently with internal and external auditors, as aligned with the federal Sarbanes-Oxley Act. There is a provision in the Sunshine Law that permits such interaction without public notice, upon specific assignment and reporting requirements. Regent Iha moved to approve as proposed, seconded by Regent McEnerney. It was commented that it is a critical safety factor and very important audit step for the committee to meet privately and separately with the auditors without management to enable open and frank discussion about problems encountered when conducting an

audit. Having no further discussion, a vote was taken, and the motion unanimously passed.

7. Approval of Establishment of the Hawai'i Community Reinvestment Corporation Distinguished Endowed Professorship in Affordable Housing in the Department of Urban and Regional Planning and the University of Hawai'i Economic Research Organization, College of Social

Interim UH Mānoa Vice Chancellor for Academic Affairs Michael Bruno explained the proposal supported by a gift commitment \$789,474 corpus with activities underway to continue fundraising with a minimum goal of \$1 million. The establishment threshold of \$500,000 for an endowed professorship has been met, and the annual proceeds from the corpus will supplement research, support, and travel, that will aid in recruitment. Concerns were raised as to the status, amount, and liquidity of the funds, recruitment efforts and assurance of funding availability for recruitment, and the high UH Foundation (UHF) administrative fee. It was explained how the base funding is available and more fundraising is planned to increase the balance. UHF service and prospect cultivation was credited to enabling the securing of the required funding and current efforts to increase fundraising. Suggestions raised included broadening the title of the endowment to encompass future needs, and consideration of leveraging endowment fund to cover student needs, including affordable housing. A request was made to have administration report back on fundraising progress and when an appointment may be made. Upon motion by Vice Chair Moore, seconded by Regent Higa, the motion carried unanimously.

8. Approval of Resolution honoring Doris Ching, Interim Chancellor, University of Hawai'i, West – O'ahu

At the request of Chair Sullivan, Board Secretary Quinn read into the record the resolution honoring Doris Ching, Interim Chancellor, University of Hawai'i West – Oahu. Chair Sullivan and Vice Chair Kudo presented lei and a framed resolution. Interim Chancellor Ching expressed her appreciation and gratitude for the opportunity to serve and the board's generous and heartfelt gesture. Upon motion by Regent Tagorda, seconded by Regent Higa, the board unanimously adopted the resolution.

9. Approval of Resolution Reaffirming UH commitments to undocumented and all students

Regent Tagorda gave some background and presented the resolution and moved to adopt the resolution, seconded by Regent Higa, who indicated his support and the importance to students. A vote was called and the resolution was unanimously adopted.

A recess was called at 11:22 a.m. The meeting reconvened at 11:30 a.m. Due to time constraints and under no objection, Item VI.B.4 was heard out of order.

B. For Information

4. Update on Cancer Center of Hawai'i Business plan

Dr. Randy Holcombe, Director of the Cancer Center of Hawai'i, provided a slide presentation update on the Cancer Center Business Plan with a comparison of the current business plan to the different plans over time; a recap of the different circumstances, projections, and outcomes shortfalls; a discussion of the long term program, financial, and expenditure reduction progress, and mitigation plans. He described the current environmental factors facilitating success to meet the September deadline for National Cancer Institute (NCI) designation renewal, including improved human resource management, collaborative faculty engagement, and improved recruitment plans, shared research cores and services, and community engagement. He noted that some similar and good elements from prior plans were retained, and others less advantageous were not retained, and the current plan has the collaborative consensus among center faculty on how to move forward. It was noted that for over two years all plans called for increased state support for cancer center operations, and none of those plans had been implemented. His goal was to provide a rational financial plan and that he can achieve a zero deficit sustainability plan by Fiscal Year 2020.

Regents expressed appreciation for the presentation on the current plan, and turnaround in management and faculty collaboration. Comments and concerns raised included need for continued and increasing legislative funding, a space study and plans for the annex build out, recruitment plans and necessity of using reserves for initial recruitments, fallback position if funding assumptions or NCI designation are not obtained, revenue generating plans, incorporating rising costs and expenses, and addressing legislative reluctance to support.

Lengthy discussion ensued regarding his plan to first demonstrate a financially sound operation that is sustainable in the long term, and cost neutral with industry and state support in the next two years in order to proceed with other initiatives, such as the build out of the annex. He explained that time is needed to continue to improve management of operations, sharing core services and laboratories, recruitment, and human resources, increasing philanthropy efforts, and focusing on achieving NCI designation that is a critical to the operations to access grants, funds, and faculty. During this time, space planning for the annex remains conservative, cognizant of existing restrictive bond requirements, and varied approaches for the long term such as collaborative ventures with hospitals, clinical or dry lab space, or biotech commercial use may be ready to consider in year 2021. Initial recruitment funded by reserves is necessary for core support of the NCI application and to address turnover. It was clarified that the current plan underway is the business plan that was approved in November 2016, and publicly posted assumptions have been confirmed, and he has gained control over significant components to close the current \$5 million deficit. Assumptions include no plan to increase state funding for five years, 1% reduction in taxes based on peer comparison and trends and addressed through decreasing expenditures e.g., reducing administrative personnel through attrition, and better recruiting with extramural funds and Research Training & Revolving Fund (RTRF) offsets which is a 3-to-1 return to the community and state economy. It was confirmed that the structure of the program requires state support, and that all state NCI institutions receive some form of state support. The vision is to have clinical trials available to the community statewide, beginning with the neighbor islands of Hawai'i and Maui, which is a complex and

comprehensive operation to establish the infrastructure among hospitals, centers, and physicians for service and space, and to ensure compliance with required health and safety protocols. The board requested consideration and follow up with administration on the options to address bond issue restrictions. It was noted that the board and the Governor did support the \$5 million state funding request and expressed appreciation for Dr. Holcombe's service and progress in such a short time.

Chair Sullivan called for a recess to break for lunch and a motion for an executive session to follow, and expected to reconvene by 1:30 p.m.

VI. EXECUTIVE SESSION

Upon motion by Regent Wilson, seconded by Regent Moore, the board unanimously approved convening in executive session, pursuant to HRS §92-5(a)(2) and (7) to discuss personnel and private donation matters. The board convened in executive session at 12:41 p.m. Following a motion to come out of executive session by Regent Higaki, seconded by Regent Tagorda, executive session was adjourned by unanimous vote at 1:08 p.m.

The meeting reconvened at 1:10 p.m. Chair Sullivan stated that the board went into executive session to discuss personnel and private donation matters as indicated on the agenda.

V. ITEMS FOR DISCUSSION & APPROVAL (cont)

B. For Information/Discussion (con't)

1. Board Education: State Ethics Code and Best Practices by Daniel Gluck, Executive Director, State Ethics Commission

Dan Gluck, Executive Director for State Ethics Commission, provided a brief overview on the state ethics requirements of the board regarding financial and gift disclosures, the review process and the current number of filings the commission reviews annually. He explained the services that the ethics office provides, including education and guidance, and access to an attorney on duty to field inquiries, and the scope of compliance and penalties the office enforces. Comments and concerns discussed regarded clarity on distinguishing state invitations and events from private entity events and gifts that trigger disclosure, special circumstances regarding UH sporting events and other entertainment events, ease of public to file complaints, and ethics commission willingness to reassess the broadening of the recent financial disclosure law that effectively eliminates a significant demographic of the business community and impacts quality and willingness of some candidates to serve.

2. Report on Status of UH Metrics for AY2015-2016

VP Dickson provided a slide presentation on the status of the UH Metrics for academic year 2015 – 2016, reporting that the university as a whole is doing well in most areas, with more work need in enrollment to degree metrics for Native Hawaiians.

She explained that graduation data is tracked by campus and cohort based, and shows that 4 year degrees and community transfers are doing well but not all students are transferring to a UH institution; and more work is needed regarding 6 year degree outcomes. Research and innovation initiatives are doing well in most metrics, with more work needed regarding startup companies and extramural funding. Deferred maintenance continues to increase, although utilities costs are on target. A dashboard for strategic direction measures was shared and illustrated how the campuses fared in meeting Hawai'i Graduation Initiative metrics that were tied to performance based allocation of the \$6.3 million funding using a weighted scoring method. A sample of the campus completion scorecard for performance was explained and updated to include Native Hawaiian scorecards.

3. Update on Sustainability at the University System

VP Gouveia introduced the team leading the sustainability initiatives systemwide that was established in 2015, and received some state funding last year. Matt Lynch, University of Hawai'i System Sustainability Coordinator, provided a slide presentation on the comprehensive strategies, initiatives, and outcomes to date, with assistance from Miles Topping, Director of Energy Management, who presented on the energy initiatives, and Dr. Christina Hiser, Interim Systemwide Sustainability Curriculum Coordinator, who presented on the efforts to integrate sustainability into the curriculum and student survey results supporting degrees in sustainability and related programs.

The board expressed appreciation for a great launch in the short time since the policy was adopted two years ago with the current board chair as co-chair of the task group. Chair Sullivan recounted that co-chair former Regent Matayoshi had commented that the leading the task group was the most positive work during her tenure, and commended VP Gouveia's leadership despite the lack of availability of resources.

5. UH Legislative and Budget Proposals for 2017 Legislative Session

VP Young provided a slide presentation on the university legislative budget proposal new approach focusing on strategic directions, which is very different from other agencies and departments. He provided a comparison chart showing the difference between the university proposal and outcome in the Governor's submittal, that has since changed and been revised to reduce the executive proposed budget by \$600 million, and expected to impact funding due to lower forecasts by the Council on Revenues. He explained the Capital Improvement Projects (CIP) proposal covers four different areas of major projects; renew, improve and modernize (RIM) projects; minor projects; and planning projects; and progression with the funds across the campuses. In result, all funding occurs in year 1 only, not specific across categories, far short of the university request, and with an additional \$150 million lump sum. Additional requests for the supplemental year are expected, but the CIP proposal is not impacted by revisions or reduction as in the operating budget. It was noted that the prioritization of the lump sum is still under review.

VP Young provided explanations of the legislative deadlines and a summary of the university bill proposals relating to smoking prohibitions on all campuses that is consistent with statute applicable to the Department of Education, Hawai'i Health Systems Corporation properties, and state parks; last dollar scholarships for qualified UH community college students; reinstating the university president as chief procurement officer for the university; supporting technology innovation; clarifying technology transfer activities with State Ethics Code; rule making or policy development process improvements; establishing a protection advisory committee; establishing physician workforce assessment fee; legislative report repeals; authorizing the university's separate accounting and financial management system; and establishing a university micro-grid.

VI. ANNOUNCEMENTS

Chair Sullivan announced that the next board meeting is February 23, 2017 at Honolulu Community College

VII. ADJOURNMENT

There being no further business, Regent Higa moved to adjourn, seconded by Regent Yuen, and with unanimous approval, the meeting was adjourned at 2:45 p.m.

Respectfully Submitted,

/S/

Cynthia Quinn
Executive Administrator and
Secretary of the Board of Regents



UNIVERSITY of HAWAII
LEEWARD
COMMUNITY COLLEGE

Office of the Chancellor

April 3, 2017

MEMORANDUM

TO: Risa Dickson
Vice President for Academic Affairs

VIA: *Ron Umehira*
Della Teraoka
Interim Vice Chancellor for Academic Affairs

FROM: Manuel J. Cabral
Chancellor

A handwritten signature in black ink, appearing to read "Manuel J. Cabral".

SUBJECT: Curriculum Approval

I have approved the following New Programs on 3/23/17. These are effective Fall 2017. The approvals can be found at: <https://leeward.kuali.co/cm>

New

Advanced Professional Certificate – Special Education Mild/Moderate PK-12
Associate in Science (AS) – Integrated Industrial Technology
Certificate of Achievement (CA) - Integrated Industrial Technology
Certificate of Competence (CO) – Integrated Industrial Technology

c Division Chairs
James Goodman
Ron Umehira
Adam Halemano
Janel Oshiro
Candy Hochstein
Blake Hunrick
James Fujita
Pearl Imada-Iboshi

96-045 Ala 'Ike
Pearl City, Hawai'i 96782-3393
Telephone: (808) 455-0215
Fax: (808) 455-0641

An Equal Opportunity/Affirmative Action Institution



UNIVERSITY of HAWAII
LEEWARD
COMMUNITY COLLEGE

March 31, 2017.

TO: Manuel J. Cabral
Chancellor

FROM: Della Teraoka *Della Teraoka*
Interim Vice Chancellor for Academic Affairs

SUBJECT: Signing Authority

I will be out of the office from April 3-7, 2017. I will be attending the 2017 ACCJC Conference in Irvine, California.

During my absence, Ron Umehira, Dean of Career and Technical Education, will have signing authority on all Academic Affairs matters.

cc: Administrators
Business Office
Human Resources Office

Program Code

|

Integrated Industrial Technology

Approved

|

2017 Fall

Current | Fall 2017 — Indefinite

Proposal Information

Workflow Status

Changes

CODE

Program Code

1) GENERAL INFORMATION

1.1) Program Title

Integrated Industrial Technology

1.2) Degree Type

Associate in Science (AS)

1.3) Description

The Associate in Science in Integrated Industrial Technology (AS-IIT) is a 61-credit degree program intended to provide students with a foundation in electronic, electrical, mechanical, and automated control systems to meet the workforce needs of an emerging industrial technology industry. This program provides students with a theoretical and practical understanding of mechatronic systems and develops practical skills and systems integration. Graduates will be able to program, operate, maintain, calibrate, and repair the equipment that makes up these systems. The degree prepares students for occupations that involve the integration of electronic, electrical, mechanical, and communications systems. Typical occupations may include automated programmable electromechanical systems technicians, robotics and manufacturing systems technicians, and process control systems integration technicians.

1.4) Department

Math & Science

P) PROPOSAL DETAILS

P.1) Proposal Summary

This is a new program.

P.2) Proposal Rationale/Justification

The new AS in IIT aligns with the 2015 – 2021 UH Strategic Directions with respect to the Hawaii Graduation Initiative Action Strategy 3 - anticipate and align curricula with community and workforce needs. The proposed IIT curriculum was developed with input from various experts in manufacturing, automation, and transit systems. The IIT Program aligns with the 2015 – 2021 UHCC Strategic Directions in regards to the Hawaii Innovation Initiative by developing and offering mid-level technician training in STEM related jobs. The IIT Program also aligns with the 2015 – 2021 Leeward CC Strategic Directions in regards to the Hawaii Innovation Initiative by developing and delivering programs and training needed for a qualified workforce in existing and emerging careers. The following are objectives that the IIT Program will address. 1. Increase access to STEM programs and provide distance and hybrid opportunities in STEM education. 2. Create specific pathways into baccalaureate programs in data science and cybersecurity, biotechnology, engineering, physical sciences, and other demand fields using meta majors. 3. Increase credit and non-credit programs to prepare students for high-wage, high-demand jobs. 4. Identify new programs and opportunities that align with the community needs and workforce demands. A key

aspect in the development of a technical workforce that is properly educated in emerging technologies is for community colleges and employers to work together to identify skill gaps in existing technical education programs. Leeward CC's Office of Continuing Education & Workforce Development (OCEWD) in cooperation with Honolulu Area Rapid Transit Authority (HART), and Ansaldo Honolulu, formed a working group in 2013 to discuss the future skills needed for the operations and maintenance division of the Honolulu Light Rail System. In the next five years, Ansaldo Honolulu intends to employ a substantial workforce of over 120 employees, including electronic and electro-mechanical technicians and systems integrators. This is evident in the Honolulu Rail Transit Project Operations and Maintenance management plan below (DOC CODE HNL-09005): Position - Manning Level First Line Response Team - 13 Leading Vehicle Technicians - 7 Passenger Vehicle Technician - 35 Maintenance and Storage Facility Equipment Technician - 3 Infrastructure leading Technician - 7 Train Controls Technician - 8 Platform Screen Gate Technician - 8 Communication Technician - 3 Maintenance and Storage Facility Technician - 3 Fare and Vending Technician - 7 Guideway and Contact Rail Technicians - 12 Power and Electric Plant Leading Technicians - 3 Electro-Mechanical Technician MSF - 4 Traction Electronics Technicians - 6 SCADA Technicians - 2 Total - 121 The rail transit working group also conducted an extensive analysis of the knowledge, skills, and aptitudes described in the Honolulu Rail Transit Project O&M provider job descriptions (DOC CODE HNL09009 Rev 2.0). The results of that analysis were used to develop non-credit workforce development coursework designed to ensure that potential applicants for rail positions are able to meet the minimum qualifications for employment. These non-credit courses are currently being offered through OCEWD. The IIT Program will also provide education, experience, and address a current workforce need in manufacturing systems, transit systems, automation, control systems, electromechanical technology, system integration, process technology, instrumentation, and smart grid technology. Table II in the attached proposal reflects the industrial technology related employment outlook based upon the Classification of Instructional Programs (CIP) and the associated Standard Occupational Codes (SOC). The primary CIP for the AS in IIT is 47.0303 - Industrial Mechanics and Maintenance Technology which has 212 openings annually in the State of Hawaii (EMSI Q4 2016 Data Set, www.economicmodeling.com). The average yearly median salaries for these openings range from \$38,626 to \$85,862. As shown in Table III in the attached proposal, a secondary CIP for the AS in IIT is 15.0303 - Electrical, Electronic and Communications Engineering Technology/Technician which has 19 openings annually in the State of Hawaii. Occupation Overview/National % Growth/Hawaii % Growth Installation, Maintenance, and Repair Workers/+12.1%/+8.1% Industrial Machinery Mechanics/+20.1%/+14.3% Maintenance Workers, Machinery/+11.5%/+13.8% Mechanical Door Repairers/+15.1%/+12.0% Control and Valve Installers and Repairers/+6.0%/+15.8% Millwrights/+18.6%/+29.8% Elevator Installers and Repairers/+14.3%/+14.3% Providing an emerging workforce with the opportunity to gain an Associate in Science degree allows for a more direct path from industry technicians positions to front line supervisory and management positions. The students, both traditional on a credit path and non-traditional on a non-credit path, will enter the workforce with higher-level skills and training. The IIT Program will also impact the Leeward CC campus through its outreach programs by providing career opportunities in a high wage, high demand, and high skilled occupation. This program will be offered, in a blended on-campus and online format allowing flexibility for incumbent workers to enhance their skills, and earn a degree.

P.3) Title Change

No

P.4) Proposal Supporting Documents

- Leeward Community College AP00-01753 HART Ltr of Support.pdf
- onsource letter.pdf
- PARhawaii-2.pdf
- Rengo Letter.pdf

- RA Training UofHsupport letter.pdf
- Program support letter.pdf

P.5) Other Departments Involved

-ENG 100 (Language Arts) -3 credits, 100 level or above (Arts and Humanities) -3 credits, 100 level or above (Social Sciences)

P.6) Have other departments been consulted?

Yes

P.7) Proposal Impact(s) - Articulation

No.

P.8) Proposal Impact(s) - Requirements

No.

P.9) Proposal Impact(s) - Resources

Faculty Resources: One full-time faculty/coordinator will be required to offer the IIT Program, along with two to four lecturers or subject matter experts. The college has an existing faculty/coordinator that oversees the Industrial Technology Program in OCEWD. As the program grows, additional faculty/lecturers will be required. There is a counselor housed in the Math and Sciences Division to advise students on its programs. Equipment: Leeward CC has acquired over \$200,000 in equipment through the Trade Adjustment Assistance Community College and Career Training Grant from 2011-2014. Laboratory equipment that is currently being used are a rigging systems trainer, motor control trainer, biofuel production process system, modular chemical reactor system, supervisory control and data acquisition (SCADA) stations, programmable logic controller (PLC) stations, electronics trainer, and a mechanical drives integrated training system. Library Resources: The IIT program will be developed to take full advantage of open educational resources (OER). Since courses will be offered traditionally, online and hybrid, and resources must be accessible for students taking classes through all delivery modes. Physical Resources: A dedicated laboratory facility houses the equipment and supplies for the IIT program. OCEWD houses a fully functioning controls laboratory with equipment to support the labs. The controls lab has eight stations and the electronic lab has ten stations. The number of stations will need to be increased as enrollment in the courses increases. The IIT program is a collaborative effort with the Math and Sciences Division and OCEWD. Resources will be shared to support the program including faculty, equipment, supplies, and laboratory facilities. The academic cost and revenue template details are included in the Program Proposal, attached in Field 4. The Headcount Enrollment (A) and Annual SSH (B) is calculated based on planning that an enrollment of 25 - 30 students will enter the program each year, that students will take a full load of 30 - 31 credits each year, and that each year after the first year, 25 students will graduate. Thus after the first year, there will be a minimum of 50 students in the program at any given time. SSH is based on students taking 30 - 31 credits per year. Calculations of Instructional Costs without Fringe (C) is based on an 11-month faculty/program coordinator at the C2 (Instructor) rank. The first year teaching capacity of 15 credits in the technical IIT courses will be taught by two lecturers. For the subsequent years, as enrollment increases, teaching capacity will increase to 42 credits or approximately four lecturers. Salary is based on faculty/program coordinator and lecturers. Unique Program Costs (E) was calculated based upon an estimated \$6,000 for the first year, \$8,000 in the second year, and \$10,000 in the third year for consumables and maintenance of small equipment. Revenues generated by Tuition (G) are based on the number of SSH multiplied by the applicable tuition; the tuition was based on the Proposed Tuition Schedule for the UHCC's.

http://www.hawaii.edu/policy/docs/temp/Attachment_1_Tuition_Schedule.pdf Instructional Cost with Fringe (K1) Based on current rates.

P.10) Department Vote

P.11) Department Vote

2/09/2017 22 Yes, 0 No, 0 Abstain

P.12) Proposer Notes

2) PROGRAM LEARNING OUTCOMES

2.1) Outcomes

Apply the principles of mathematics, electronics, mechanical systems, and controls systems to program, maintain, calibrate, and repair advanced integrated systems in manufacturing and transportation.

Use appropriate safety, health, and personal protection procedures applicable to an industrial working environment.

Demonstrate an understanding of the structure and function of mechatronic systems and follow a logical sequence for isolating problems within an industrial process.

Analyze process control system operations and select the appropriate sensing equipment for that operation.

Analyze the operating difficulties of an automated system and perform the corrective actions needed.

Utilize proper procedures for inspection, preventive maintenance, and corrective maintenance of integrated industrial systems.

Demonstrate an understanding of the theory, construction, installation and operation of hydraulic and pneumatic systems in an automated controls environment.

Demonstrate an understanding of mechanical drive systems, their function and the operation in an automated controls environment.

Apply principles of process quality assurance to an automated control environment.

Use CAD/CAM to create drawings of parts and assemblies to create prototypes using additive manufacturing.

3) BOR INFORMATION

3.1) Program Justification

The new AS in IIT aligns with the 2015 – 2021 UH Strategic Directions with respect to the Hawaii Graduation Initiative Action Strategy 3 - anticipate and align curricula with community and workforce needs. The proposed IIT curriculum was developed with input from various experts in manufacturing, automation, and transit systems. The IIT Program aligns with the 2015 – 2021 UHCC Strategic Directions in regards to the Hawaii Innovation Initiative by developing and offering mid-level technician training in STEM related jobs. The IIT Program also aligns with the 2015 – 2021 Leeward CC Strategic Directions in regards to the Hawaii Innovation Initiative by developing and delivering programs and training needed for a qualified workforce in existing and emerging careers. The following are objectives that the IIT Program will address. 1. Increase access to STEM programs and provide distance and hybrid opportunities in STEM education. 2. Create specific pathways into baccalaureate programs in data science and cybersecurity, biotechnology, engineering, physical sciences, and other demand fields using meta majors. 3. Increase credit and non-credit programs to prepare students for high-wage, high-demand jobs. 4. Identify new programs and opportunities that align with the community needs and workforce demands. A key aspect in the development of a technical workforce that is properly educated in emerging technologies is for community colleges and employers to work together to identify skill gaps in existing technical education programs. Leeward CC's Office of Continuing Education & Workforce Development (OCEWD) in cooperation with Honolulu Area Rapid Transit Authority (HART), and Ansaldo Honolulu, formed a working group in 2013 to discuss the future skills needed for the operations and maintenance division of the Honolulu Light Rail System. In the next five years,

Ansaldo Honolulu intends to employ a substantial workforce of over 120 employees, including electronic and electro-mechanical technicians and systems integrators. This is evident in the Honolulu Rail Transit Project Operations and Maintenance management plan below (DOC CODE HNL-09005): Position - Manning Level First Line Response Team - 13 Leading Vehicle Technicians - 7 Passenger Vehicle Technician - 35 Maintenance and Storage Facility Equipment Technician - 3 Infrastructure leading Technician - 7 Train Controls Technician - 8 Platform Screen Gate Technician - 8 Communication Technician - 3 Maintenance and Storage Facility Technician - 3 Fare and Vending Technician - 7 Guideway and Contact Rail Technicians - 12 Power and Electric Plant Leading Technicians - 3 Electro-Mechanical Technician MSF - 4 Traction Electronics Technicians - 6 SCADA Technicians - 2 Total - 121 The rail transit working group also conducted an extensive analysis of the knowledge, skills, and aptitudes described in the Honolulu Rail Transit Project O&M provider job descriptions (DOC CODE HNL09009 Rev 2.0). The results of that analysis were used to develop non-credit workforce development coursework designed to ensure that potential applicants for rail positions are able to meet the minimum qualifications for employment. These non-credit courses are currently being offered through OCEWD. The IIT Program will also provide education, experience, and address a current workforce need in manufacturing systems, transit systems, automation, control systems, electromechanical technology, system integration, process technology, instrumentation, and smart grid technology. Table II in the attached proposal reflects the industrial technology related employment outlook based upon the Classification of Instructional Programs (CIP) and the associated Standard Occupational Codes (SOC). The primary CIP for the AS in IIT is 47.0303 – Industrial Mechanics and Maintenance Technology which has 212 openings annually in the State of Hawaii (EMSI Q4 2016 Data Set, www.economicmodeling.com). The average yearly median salaries for these openings range from \$38,626 to \$85,862. As shown in Table III in the attached proposal, a secondary CIP for the AS in IIT is 15.0303 – Electrical, Electronic and Communications Engineering Technology/Technician which has 19 openings annually in the State of Hawaii. Occupation Overview/National % Growth/Hawaii % Growth Installation, Maintenance, and Repair Workers/+12.1%/+8.1% Industrial Machinery Mechanics/+20.1%/+14.3% Maintenance Workers, Machinery/+11.5%/+13.8% Mechanical Door Repairers/+15.1%/+12.0% Control and Valve Installers and Repairers/+6.0%/+15.8% Millwrights/+18.6%/+29.8% Elevator Installers and Repairers/+14.3%/+14.3% Providing an emerging workforce with the opportunity to gain an Associate in Science degree allows for a more direct path from industry technicians positions to front line supervisory and management positions. The students, both traditional on a credit path and non-traditional on a non-credit path, will enter the workforce with higher-level skills and training. The IIT Program will also impact the Leeward CC campus through its outreach programs by providing career opportunities in a high wage, high demand, and high skilled occupation. This program will be offered, in a blended on-campus and online format allowing flexibility for incumbent workers to enhance their skills, and earn a degree.

3.2) Program Mission and Objectives

The Associate in Science in Integrated Industrial Technology (AS-IIT) program is intended to provide students with a foundation in electronic, electrical, mechanical, and automated control systems to meet the workforce needs of an emerging industrial technology industry. This program provides students with a theoretical and practical understanding of mechatronic systems, develops practical skills and systems integration, and prepares students for occupations that involve the integration of electronic, electrical, mechanical, and communications systems. Graduates will be able to program, operate, maintain, calibrate, and repair the equipment that makes up these systems.

3.3) Program Curriculum Plan

The proposed IIT curriculum is presented below with six existing general education courses and twelve new credit technical courses creating new career pathways for students. The program will also provide a clear structured pathway for both full-time and part-time students and is designed to provide an alternative graduation pathway for students that are not able to complete the more

rigorous Associate in Science - Natural Science (ASNS) program. The IIT Program will increase enrollment from target populations; specifically, it will provide an opportunity for adult learners (industry professionals) to return to attain a degree in their profession. The program will take advantage of the existing Prior Learning Assessment (PLA) program and provide an avenue for adult learners to earn a degree faster than traditional students. All required IIT courses must be passed with a grade of "C" or better in order to be applied to the degree. Core Requirements: 42 credits -IIT 101 Safety, Health, and Environment (3) -IIT 121 Electro-hydraulics and Pneumatics (3) - IIT 131 Mechanical Drive Systems (3) -IIT 151 Rapid Prototyping (3) -IIT 171 Principles of Process Quality (3) -IIT 201 AC/DC Circuits (4) -IIT 205 Digital and Analog Circuits (4) -IIT 221 Programmable Logic Control (4) -IIT 231 Process Control and Instrumentation (4) -IIT 251 Motor and Motion Control (4) -IIT 271 Distributed Control Systems (3) -IIT 281 Supervisory Control & Data Administration (4) General Education Requirements: 19 credits -Arts & Humanities (100 level or above) (3) -ENG 100 Composition I (3) -ICS 141 Discrete Mathematics for Computer Science I (3) - MATH 103 College Algebra or higher (3) -PHYS 100 Survey of Physics (3) -PHYS 100L Survey of Physics Laboratory (1) -Social Sciences (100 level or above) (3)

3.4) Program Rules

Semester 1

- Completed the following:
 - ☐ **NEW 101** - Industrial Safety Health and Environment
 - ☐ **NEW 131** - Mechanical Drive Systems
 - ☐ **NEW 121** - Electro Hydraulics and Pneumatics (Fluid Power Systems)
 - ☐ **ENG 100** - Composition I
 - ☐ **MATH 103** - College Algebra

Semester 2

- Completed the following:
 - ☐ **ICS 141** - Discrete Mathematics for Computer Science I
 - ☐ **PHYS 100** - Survey of Physics
 - ☐ **PHYS 100L** - Survey of Physics Laboratory
 - ☐ **NEW 171** - Principles of Process Quality
 - ☐ **NEW 151** - Rapid Prototyping
- Any Social Sciences Course (100 level or above)

Semester 3

- Completed the following:
 - ☐ **NEW 201** - AC/DC Circuits
 - ☐ **NEW 231** - Process Control and Instrumentation
 - ☐ **NEW 251** - Motor and Motion Control
 - ☐ **NEW 221** - Programmable Logic Control

Semester 4

- Completed the following:
 - ☐ **NEW 205** - Digital and Analog Circuits
 - ☐ **NEW 271** - Distributed Control Systems
 - ☐ **NEW 281** - Supervisory Control and Data Acquisition (SCADA) Systems
- Any Arts and Humanities Course (100 level or above)

3.5) Program Target Group

All campuses in the UHCC system have an open-door access policy and serve diverse populations of students. The total student enrollment of Leeward CC is approximately 8,000 students. The proposed IIT Program at Leeward CC will recruit students from a range of diverse backgrounds including local high school graduates, returning adult students and veterans seeking to re-enter the workforce or change careers, and current industrial technology employees seeking to gain further education, skills, or promotion. The IIT Program is designed to provide flexibility to meet a range of different student needs, by offering multiple certificate and associate degree options. Leeward CC provides student counseling and advisement to assist students in meeting their educational goals. Courses or certificates can also be taken as general education diversification requirements, electives, or concentrations for students enrolled in other programs. The program is anticipating an initial enrollment of 25 students due to the constraints of the IIT laboratory space. The enrollment is anticipated to be 25 students in the first year followed by an additional increase of 15 - 25 students per year. After the first year and assuming an on time graduation, there will be a minimum of 50 students in the program at any given time. By following the recommended schedule, a full-time student will complete the associate degree in four semesters.

3.6) Program Resources

Faculty Resources: One full-time faculty/coordinator will be required to offer the IIT Program, along with two to four lecturers or subject matter experts. The college has an existing faculty/coordinator that oversees the Industrial Technology Program in OCEWD. As the program grows, additional faculty/lecturers will be required. There is a counselor housed in the Math and Sciences Division to advise students on its programs. **Equipment:** Leeward CC has acquired over \$200,000 in equipment through the Trade Adjustment Assistance Community College and Career Training Grant from 2011-2014. Laboratory equipment that is currently being used are a rigging systems trainer, motor control trainer, biofuel production process system, modular chemical reactor system, supervisory control and data acquisition (SCADA) stations, programmable logic controller (PLC) stations, electronics trainer, and a mechanical drives integrated training system. **Library Resources:** The IIT program will be developed to take full advantage of open educational resources (OER). Since courses will be offered traditionally, online and hybrid, and resources must be accessible for students taking classes through all delivery modes. **Physical Resources:** A dedicated laboratory facility houses the equipment and supplies for the IIT program. OCEWD houses a fully functioning controls laboratory with equipment to support the labs. The controls lab has eight stations and the electronic lab has ten stations. The number of stations will need to be increased as enrollment in the courses increases. The IIT program is a collaborative effort with the Math and Sciences Division and OCEWD. Resources will be shared to support the program including faculty, equipment, supplies, and laboratory facilities. The academic cost and revenue template details are included in the Program Proposal, attached in Field 4. The Headcount Enrollment (A) and Annual SSH (B) is calculated based on planning that an enrollment of 25 - 30 students will enter the program each year, that students will take a full load of 30 - 31 credits each year, and that each year after the first year, 25 students will graduate. Thus after the first year, there will be a minimum of 50 students in the program at any given time. SSH is based on students taking 30 - 31 credits per year. Calculations of Instructional Costs without Fringe (C) is based on an 11-month faculty/program coordinator at the C2 (Instructor) rank. The first year teaching capacity of 15 credits in the technical IIT courses will be taught by two lecturers. For the subsequent years, as enrollment increases, teaching capacity will increase to 42 credits or approximately four lecturers. Salary is based on entry 11-month faculty/program coordinator and A range lecturers. Unique Program Costs (E) was calculated based upon an estimated \$6,000 for the first year, \$8,000 in the second year, and \$10,000 in the third year for consumables and maintenance of small equipment. Revenues generated by Tuition (G) are based on the number of SSH multiplied by the applicable tuition; the tuition was based on the Proposed Tuition Schedule for the UHCC's.

http://www.hawaii.edu/policy/docs/temp/Attachment_1_Tuition_Schedule.pdf Instructional Cost

with Fringe (K1) The Support Costs (L) and Total Campus Expenditure (N) are from Leeward CC's page on the 2011-2012 UH Expenditures Report. <http://www.hawaii.edu/cgi-bin/iro/maps?esuhfy1112.pdf> The program used for Comparable Cost/SSH (O), also taken from the above Expenditures Report, is General Academic Instruction.

3.7) Program Efficiency

The Program Efficiency will be measured by the University of Hawai'i Community College (UHCC) Instructional Annual Report of Program Data (ARPD) which includes the following indicators: (a) average class size, (b) fill rate, (c) FTE BOR appointed faculty, (d) majors to FTE BOR appointed faculty, (e) overall program budget allocation, and (f) cost per SSH. The IIT Program will increase enrollment in the six existing General Education credit courses. There are a total of eighteen courses within the proposed program, out of which there are twelve non-credit industrial technology courses that will be reassessed and submitted for credit through the Leeward CC curriculum process. The IIT Program is a collaborative effort with the Math and Science Division and OCEWD. Resources will be shared to support the program including faculty, equipment, supplies, and laboratory facilities. There are no certificates or degrees that contain the technical core curriculum in the Associate in Science degree to be offered in the IIT Program. However, there are several programs at the other community colleges that offer a few related courses, but no single program has more than 20% of the content required for the industrial technology occupations this program will serve. - AAS in EIMT at Honolulu CC and Kaua'i CC - AS in ECET at UH Maui College - AS in ET at Hawai'i CC and Kaua'i CC As stated above and through research and communications with the above program faculty, we feel that there is no single program that offers more than 20% of the IIT program in their content, program learning outcomes, and the occupations that the programs prepare students for.

3.8) Program Effectiveness

The Program Effectiveness will be measured by the UHCC ARPD which includes the following indicators: (a) successful completion (equivalent C or higher), (b) withdrawals, (c) persistence (fall to spring); (d) degrees/certificates awarded, and (e) transfers to UH 4-year universities. Effectiveness will be evaluated by the number of graduates as well as the number of students following the pathways but obtain shorter certificates (CO or CA), those who may continue their studies and obtain a four-year baccalaureate degree in related fields, and those already in the workforce who have their wage increased. Program effectiveness will be assessed annually by the IIT faculty as part of the program review process. The IIT Advisory Board will meet twice a year and will assist in assessing the program. The IIT Program will be offered under the Math and Science Division with plans for the courses to be offered online wherever possible. ACCJC will be provided with the required notifications. Current articulation agreements with other campuses in the UH system will be recognized for any existing coursework that is part of the program. If a campus offers one or more of the new IIT courses being developed for this program, Leeward CC and the campus will conduct a due diligence of the coursework and make a determination if articulation is warranted.

4) ATTACHMENTS

- IIT Program Leeward CC.pdf



UNIVERSITY
of HAWAII
SYSTEM

Princess Soares <pfrederi@hawaii.edu>

CIP Code for New Major at Leeward CC: Integrated Industrial Technology

Ron Umehira <umehira@hawaii.edu>

Mon, Jun 26, 2017 at 3:12 PM

To: Princess Soares <pfrederi@hawaii.edu>

Cc: Suzette Robinson <suzetter@hawaii.edu>, Jennie Thompson <jenniet@hawaii.edu>, William Labby <wlabby@hawaii.edu>, Bryson Padasdao <brysonep@hawaii.edu>, Pearl Iboshi <iboshi@hawaii.edu>, Dominic Estrella <dominice@hawaii.edu>

Hi Princess,

Aloha from Leeward CC and mahalo for your patience as we determine and decide on an appropriate CIP code for the new Integrated Industrial Technology (IIT) Program. The Math & Science Division Chair, program faculty in Engineering and in Industrial Technology, and I have been in discussion about this issue the past several weeks.

We met again this afternoon and after much discussion decided that CIP code 15.0406 as you recommended would be the best choice as it describes the new IIT program and aligns with the program courses the most. However, we are still very concerned about the number of annual job openings reflected with this CIP code as we feel many of the job openings in Hawaii and as reported by the employers are not classified under the respective and current SOC codes under 15.0406.

However, we are encouraged by what Pearl mentioned at our CTE Deans meeting last week Monday, that there could be an opportunity to select relevant SOC codes from several related CIP codes and customize them under one CIP code. We look forward to those discussions, but in the meantime we would like to move forward with the CIP code of 15.0406 for the new IIT Program.

Should you have any questions, please contact me.

Mahalo,
Ron
455-0321

On Wed, Apr 26, 2017 at 4:06 PM, Princess Soares <pfrederi@hawaii.edu> wrote:

Aloha Ron,

Here is the recommendation and research that IRAO is forwarding to Suzette. As mentioned, since this recommendation has been forwarded to Suzette, she will be working with the campus to determine the CIP code to use in Banner.

Mahalo,
Princess

----- Forwarded message -----

From: **Princess Soares** <pfrederi@hawaii.edu>

Date: Wed, Apr 26, 2017 at 3:52 PM

Subject: CIP Code for New Major at Leeward CC: Integrated Industrial Technology

To: Pearl Iboshi <iboshi@hawaii.edu>

Aloha Pearl,

In the supporting documents for the Integrated Industrial Technology program, the campus had provided recommended CIP codes, primary CIP code being 47.0303 (Industrial Mechanics and Maintenance Technology) and secondary CIP code being 15.0303 (Electrical, Electronic and Communications Engineering Technology/Technician). After reviewing the program description and curriculum, my recommendation is that the major uses CIP code 15.0406 (Automation Engineer Technology/Technician).

--

Ron Umehira
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