NEW OR REPLACE PROGRAM CODE

New Prog	gram Code 🔲 R	Replace Program Code	e Date:		
REQUESTOR CON	NTACT INFORMATION				
Name		Campus			
Title		Email			
NEW PROGRAM	CODE TO CREATE				
Institution		Campus			
Level		Effective Term	ı		
	Code (Max. Characters)	Description	Check if r	equesting new	ı code:
College	(2)		See Ba	nner form STV	COLL
Department				nner form STV	DEPT
Degree/Certificate				nner form STV	DEGC
Major				nner form STV	MAJR
Concentration				nner form STV	MAJR
Minor (4) See Banner form STVMAJR			MAJR		
Justification to warra	ant a new major/concentration	on code similar to an existing n	najor/concentration	n code:	
Is this maior/concen	tration code being used the	same way at the other UH cam	puses?	Yes	No
Should this program	be available for applicants to	o select as their planned course e code as their only program of study.	e of study	Yes	No
RULES PERTAINI	NG TO FINANCIAL AID	AND 150% DIRECT SUBS	IDIZED LOAN LI	MIT LEGISLA	ATION
Is 50% or greater of Campus?	the classes in this program of	ffered at a location other than	the Home	Yes	No
Is this program/majo	or/certificate financial aid elig	gible?		Yes	No
program)?	qualify as a Gainful Employm	nent Program (Title IV-eligible c	ertificate	Yes	No
o o		ram should match what is published by the	campus in		
Special Program Des	ignations nations Code Definitions on IRAO	□ A □ B □	N P	_ т [U
Required Terms of E		Spring [Summer	Extend	beb

Form modified: Oct 20208

NEW OR REPLACE PROGRAM CODE

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code		Progra	m Description				
Institution		Campus					
College	Department						
Level							
Are current students	s "grandfathered"	under the program co	ode?		Yes		No
Should the old progr	ram code be availa	ble for use in Banner?			Yes		No
Effective Term (i	, old e. Fall 2020)	program code will no	longer be availab	le to admit or recru	ıit students.	1	
		recruitment (effects Ban AAQUIK, and SAAQUAN		and SRAQUIK) and ad	missions (effe	ects Ban	ner
Effective Term (i	, old e. Fall 2020)	program code will no	longer be availab	le to award degree	to students	i .	
This will turn off the modules.	general student (eff	ects Banner form SGAST	TDN) and academic h	nistory (effects Banner	r form SHADE	GR) Ban	iner
ATTACHMENTS							
	credential Certifica	ate, Associate, Bachel	or and Graduate Do	egrees, and sole cre	edential cert	ificates	
	nutes & Supporting			rriculum			
_		Certificates and Assoc	iate in Technical St	udies (ATS) Degree			
Memo from Char	ncellor to notify Vic	ce President for Acade	emic Planning and I	Policy regarding pro	gram action	١.	
Curriculum							
CERTIFICATES ONLY	: Please check one	e (1) statement. This	certificate is a				
		eeting/Approval Date:					
_		horized BOR program					
Chancellor appr	oved CO in accorda	ance with UHCCP 5.20	3, Section IV.B.10.				
VERIFICATIONS							
By signing below, I ve	erify that I have re	viewed and confirm t	he above informa	tion that is pertiner	nt to my pos	ition.	
Registrar (Print Name)		Financial Aid Office (Print Name)	er	For Community verification of COVPCC Academ	consultation	ı with	
				Tammi Oyadom			
					<u></u>		_
Signature	Date	Signature	Date	Signature		Date	_
ADDITIONAL COMMENTS							
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Form modified: Oct 2020



MEMORANDUM December 3, 2021

TO: Laura E. Lyons

Interim Vice Provost for Academic Excellence

Julienne Maeda VIA:

Acting Dean, Graduate Division

Nathan M. Murata Nathan he humb VIA:

Dean, College of Education

Patricia Halagao Satricia Halagao FROM:

Chair, Curriculum Studies

APPROVAL OF THE PROGRAMMATIC AND TRACK MODIFICATIONS IN SUBJECT:

THE DEPARTMENT OF CURRICULUM STUDIES, COLLEGE OF

EDUCATION

SPECIFIC ACTION REQUESTED

It is requested that the Interim Vice Provost for Academic Excellence approve the program modification to add the following two tracks: Mathematics Education K-12 and Progressive Philosophy and Pedagogy to the MEd in Curriculum Studies degree.

RECOMMENDED EFFECTIVE DATE

Fall 2022

ADDITIONAL COSTS

There will be no additional costs associated with this request.

RATIONALE/PURPOSE OF PROPOSED CHANGE(S)

The purpose of this request is to add two tracks that show specialized knowledge and required coursework in a particular area of study.

The MEd in Curriculum Studies (CS) is a 30-credit program composed of 4 core courses (12) credits) and six elective courses (18 credits) that culminates in a Plan A Thesis or Plan B project/portfolio. Its vision is to support curricular leaders who are committed to collaborating with their communities, particularly in Hawai'i and the Pacific, to build a more socially just, sustainable, and equitable society. Over the years, the Med-CS has evolved from primarily

Laura Lyons Page 2 December 3, 2021

focusing on concentrations in traditional subject areas (i.e. language arts, math, science, social studies) to adding programs with more interdisciplinary, place-based and thematic approaches to education (i.e. STEM, sustainability, Pacific education).

The MEd-CS allows flexibilty for students to construct a course of study that draws on diverse course offerings, and currently offers two specialized tracks: Literacy Specialist and Interdisciplinary (See attached sheet on MEd CS Track Program sheets). The modification request is to add the following two tracks that formalize the course of study around a high need content area, mathematics education and the thematic focus around progressive education. These two tracks are in line with UHM 2015-2025 strategic plan's (p.7) mission to "cultivate creative and innovative leaders who mālama our people, our places, and our ways of knowing in order to sustain and transform our islands and the world" and current nationwide and state educational needs and trends, including initiatives within the Hawai'i Department of Education (HIDOE):

1) Mathematics Education K-12

The MEd-CS Mathematics Education is a 30-credit graduate program grounded in real-world problem-solving that empowers teachers as leaders to be locally-minded, global citizens through a sense of purpose and a sense of place. Students have the option of adding a field of licensure in Ethnomathematics to an existing Hawai'i Standard or Advanced License through the Hawai'i Teacher Standards Board. The focus area is ethnomathematics, but the MEd in Mathematics Education is broader in scope including theories, research methodologies, and pedagogies.

2) Progressive Philosophy and Pedagogy

The MEd-CS Progressive Philosophy and Pedagogy is a 30-credit graduate program in partnership with coursework from the Philosophy Department and Uehiro Academy for Philosophy and Ethics in Education (Please see the attached letter of support from the Philosophy Department Chair and Director of the UH Uehiro Academy) and is designed for educators and scholars from diverse disciplines and contexts, who are interested in building our collective capacity for creating a better future society for today's children. This program is grounded in Hawai'i's long and rich progressive education movement and is built upon the UHM College of Education's partnerships with a number of local public and private schools and organizations, who are bringing the theories and practices of early progressive educators into the twenty-first century. In addition to earning a Masters in Curriculum Studies, program completers will also earn a UHM College of Education Philosophy for Children Hawai'i Endorsed Certificate.

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DETAILED LIST OF CHANGE(S):

This request is to formalize the two content areas of study as tracks, already being offered in the MEd – CS program. No other changes to the curriculum or degree are requested.

DETAILED LIST OF CONSULTATION WITH IMPACTED PROGRAMS:

There will be no negative effects on existing MEd-CS tracks. Students have been taking a set of coursework around mathematics education and progressive philosophy and pedagogy have been running. This request formalizes that two areas as "tracks" in the MEd-CS program.

ACTION RECOMMENDED

It is recommended that the Interim Vice Provost for Academic Excellence approve the program modification to add the following two tracks: *Mathematics Education K-12* and *Progressive Philosophy and Pedagogy* to the MEd in Curriculum Studies degree.

ATTACHMENTS:

- 1. Current MEd-CS Program of Study and Track Program Sheets
- 2. EDCS Program of Study for Mathematics Education Track K-12
- 3. Letter of Support from Uehiro Academy and Philosophy Department
- 4. EDCS Program of Study for Progressive Philosophy and Pedagogy Track
- 5. Email consultation with MATH Department chair

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Jan F. Zan 3/5/22

Laura E. Lyons Date

Interim Vice Provost for Academic Excellence

Cc: Amelia Jenkins, Interim Associate Dean of Academic Affairs Peter Arnade, Dean of CALL

MEd Curriculum Studies Program of Studies

MEd in Curriculum Studies degree offers two basic plans: Plan A (Thesis Program) or Plan B (Paper, Project or Portfolio). Both require a minimum of 30 credit hours. Plan A, Thesis Program, is designed primarily for those students interested in research and writing a thesis. Plan B is for those who wish to strengthen their teaching and learn more about topics of interest. Plan B requires a culminating paper, project or portfolio.

REQUIREMENTS	MEd CS PLAN A	MEd CS PLAN B	
Total Program Credits	 A minimum of 18 credits hours of courses at 600-level or higher (excluding 699, 700, and 799) A minimum of 12 credit hours of EDCS courses, excluding 699 & 700. For any 400-level and 600-level course outside of EDCS, advisor approval is required 	 A minimum of 18 credits hours of courses at 600-level or higher (excluding 699, 700, and 799) A minimum of 12 credit hours of EDCS courses, excluding 699 & 700. For any 400-level and 600-level course outside of EDCS, advisor approval is required 	
Required Core Courses	6 credits = Two Curriculum courses	6 credits = Two Curriculum courses	
Area of Study	12 credits Courses are selected in	18 credits See track for more specific course	
consultation with program advisor.		requirements.	

Research/thesis/ Plan B Credits	6 credits = EDCS 700 (Thesis Research) Coursework must be completed before registering for EDCS 700 in the semester of graduation.	18 credits in area of study may include up to 6 credit hours of EDCS 699 (Directed reading and/or research) or EDCS 695 (Plan B Master's project). Plan B option only for Interdisciplinary, Literacy Specialist, Progressive Philosophy & Pedagogy Tracks
Review Committee	Three person committee: Two from EDCS (one of whom is the chair), the third from another department (Graduate Faculty member)	Two person committee: Program Advisor from EDCS Graduate Faculty and a Second Reader at minimum with a Master's degree.
Thesis/ Proposal	Required	Not required
Proposal Defense	Required	Not required
Human Subjects Review	UH Human Subjects Committee approval for study	UH Human Subjects Committee approval for all studies that include human subjects
Culminating Requirement	Plan A Thesis	Plan B Paper, Project or Portfolio
Oral Defense	Required	Required
Program Residency	Minimum of 16 credit hours after acceptance into the program (Graduate Division requirement)	Minimum of 16 credit hours after acceptance into the program (Graduate Division requirement)

MEd Curriculum Studies Tracks

Interdisciplinary

MEd-CS Interdisciplinary is a minimum 30-credit track that allows for an in-depth area of study based on the candidate's choice or combined with other subjects resulting in a broader, more diverse focus. The interdisciplinary track will provide flexibility to adapt to the needs and interests of the students and make the best use of faculty expertise. Electives are chosen from a recommended course list, or may be selected in consultation with the program advisor.

12-core credits plus at least 18-credits selected in consultation with the program advisor.

Required Core Courses:

EDCS 606: Introduction to Research

EDCS 632: Qualitative Research Methods

EDCS 622G: Curriculum Leadership

EDCS 667G: Seminar in Curriculum Issues

Recommended Courses:

EDCS or Content Courses (400 or 600 level) selected by candidates and approved by advisors in Art, Literacy, Mathematics, Multicultural Education, Science, and/or Social studies, such as:

EDCS 608: Literacies across the Disciplines

EDCS 627: Teaching and Learning with Art Objects, Collections & Site Visits

EDCS 630: Cultural Diversity and Education

EDCS 640J: Seminar, Science

EDCS 640P: Seminar, Place-based Education

EDCS 653F: Mathematics in the Schools, Integrated Math Content

Culminating Requirements: Plan B Project

(Plan, teach, and evaluate an integrated unit grounded in theory and research; Research paper; Portfolio or Other, made up of assignments embedded in courses throughout the program).

For students needing additional time, EDCS 695 Plan B Masters Project (V): Independent study for students working on a Plan B master's project may be used.

Literacy Specialist, with Literacy Leader Graduate Certificate and Add-a-Field*

The MEd-CS Literacy Specialist is 30-credit online track and partnership between the Curriculum Studies and Special Education Departments that prepares literacy specialists to ensure all students achieve their maximum potentials as readers, writers, listeners, speakers, and practitioners of 21st Century literacies (e.g., digital, media, visual, critical) based on both International Literacy and Dyslexia Association Standards for Reading Professionals. The track may be used to add the field, *Literacy Specialist*, to a Hawai'i Standard or Advanced Teaching License.

12-core credits plus at least 18-credits chosen from the following list:

Required Core Courses:

EDCS 606: Introduction to Research (3) EDCS 632: Qualitative Research Methods (3) EDCS 622G: Curriculum Leadership (3)

EDCS 667G: Seminar in Curriculum Issues (3)

Required Courses:

EDCS 605: Literacy Coaching and Leadership (3)

EDCS 607: New Literacies Leadership (3)

EDCS 647: Classroom and School Literacy Assessment (3)

SPED 637: Fundamentals of Language & Literacy (3)

SPED 638: Advanced Fundamentals of Language & Literacy (3)

SPED 639: Topics and Issues in Reading Disabilities (3)

Culminating Requirements: Plan B Project

Content required for completion of these projects is integrated across all program course work.

To Add-a-Field:

*Applicants must have 3 years of teaching experience by program start date.

Track Coordinator: Dr. Amanda Smith, ars3@hawaii.edu

EDCS Program of Study for Mathematics Education Track K-12

The MEd-CS Mathematics Education is a 30-credit graduate program grounded in real-world problem-solving that empowers teachers as leaders to be locally-minded, global citizens through a sense of purpose and a sense of place. Students have the option of adding a field of licensure in Ethnomathematics to an existing Hawai'i Standard or Advanced License through the Hawai'i Teacher Standards Board. The focus area is ethnomathematics, but the MEd in Mathematics Education is broader in scope including theories, research methodologies, and pedagogies.

12-core credits plus at least 18-credits chosen from the following list, or other courses selected in consultation with the program advisor:

Required Core Courses:

EDCS 622G: Curriculum Leadership (3) EDCS 606: Introduction to Research (3) EDCS 632: Qualitative Research Methods (3) EDCS 667G: Seminar in Curriculum Issues (3)

Required Specialization Courses:

EDCS 624: School Mathematics Curriculum (3) AND

EDCS 640H: Seminar in Mathematics (3) Or

EDCS 640M: Seminar in Interdisciplinary Education (3)

Recommended Courses:

EDCS 494: Problem Solving in Mathematics Education (3)

EDCS 653 (Alpha)—alpha may be repeated (3)

B: Number and Operation

C: Pattern, Function and Algebra

D: Geometry and Measurement

E: Probability and Statistics

F: Integrated Mathematics Content

EDCS 654 Ethnomathematics (3)

Other Recommended Courses for those Specializing on Middle/Secondary Levels:

MATH 301: Introduction to Discrete Mathematics (3)

MATH 302: Introduction to Differential Equations (I) (3)

MATH 304: Mathematical Modeling: Deterministic Models (3)

MATH 305: Mathematical Modeling: Probabilistic Models (3)

MATH 311: Introduction to Linear Algebra (3)

MATH 321: Introduction to Advanced Mathematics (3)

MATH 331: Introduction to Real Analysis (3)

MATH 351: Foundations of Euclidean Geometry (3)

MATH 352: Non-Euclidean Geometries (3)

MATH 372: Elementary Probability and Statistics (3)

MATH 411: Linear Algebra (3)

MATH 412: Introduction to Abstract Algebra (I) (3)

MATH 413: Introduction to Abstract Algebra (II) (3)

MATH 420: Introduction to the Theory of Numbers (3)

MATH 421: Topology (3)

MATH 431: Principles of Analysis (I) (3)

MATH 455: Mathematical Logic (3)

MATH 471: Probability (3)

MATH 475: Combinatorial Mathematics (3)

PHIL 445: Symbolic Logic (3)

Culminating Requirements: Plan A Thesis or Plan B Project For Plan A Thesis, 6 credit hours of EDCS 700 Thesis Research are required. For Plan B projects, content required for completion of these projects is integrated across all program course work.

EDCS Program of Study for Progressive Philosophy and Pedagogy Track

The MEd-CS Progressive Philosophy and Pedagogy is a 30-credit graduate program designed for educators and scholars from diverse disciplines and contexts, who are interested in building our collective capacity for creating a better future society for today's children. Unique to the University of Hawai'i at Mānoa (UHM), this program is grounded in Hawai'i's long and rich progressive education movement and is built upon the UHM College of Education's partnerships with a number of local schools and organizations, who are bringing the theories and practices of early progressive educators into the twenty-first century. In addition to earning a Masters in Curriculum Studies, program completers will also earn a UHM College of Education Philosophy for Children Hawai'i Endorsed Certificate.

12-core credits plus at least 18-credits chosen from the following list (subject to change), or other courses selected in consultation with the program advisor.

Required Core Courses:

EDCS 622G: Curriculum Leadership (3) EDCS 606: Introduction to Research (3) EDCS 632: Qualitative Research Methods (3) EDCS 667G: Seminar in Curriculum Issues (3)

Required Specialization Courses:

PHIL 492: Philosophy with Children (3) PHIL 493: Teaching Philosophy (3)

EDGS (20) Calant Diagnita in Ed

EDCS 630: Cultural Diversity in Education (3) EDCS 640P: Seminar in Place-based Education (3)

PHIL 725: Philosophical Topics- Philosophy, Childhood, and Education

EDCS 695: Plan B Master's Project (3)

Culminating Requirement: Plan B Paper/Project:Progressive Philosophy and Pedagogy Portfolio. Content required for completion of these projects is integrated across all program course work.

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

From: Patricia Halagao <phalagao@hawaii.edu>

Date: Tue, Nov 23, 2021 at 3:26 PM

Subject: Re: Approval to list Math courses To: Linda Furuto furuto@hawaii.edu>

Cc: Rufus Willett <rufus@math.hawaii.edu>, Rufus Willett <rwillett@hawaii.edu>

Thank you Rufus for your approval to list all Math 300-400 level courses (other than 480) for our Masters in Curriculum Studies Math Education Track.

Aloha, Patricia

On Tue, Nov 23, 2021 at 11:50 AM Linda Furuto < <u>lfuruto@hawaii.edu</u>> wrote: Aloha Rufus,

Thank you very much for your email and wonderful suggestion. I would support listing all of your 300-400 level courses (other than 480, which is major restricted), as they may be useful for mathematics educators.

Best wishes, Linda

On Tue, Nov 23, 2021 at 9:49 AM Rufus Willett < rufus@math.hawaii.edu> wrote:

Hello Linda, Patricia,

Thank you for the detailed explanations: that all sounds good.

From our end, we are happy for you to list the courses as they are (other than the small change with 351 / 352 / 353).

As a suggestion (no offense taken at all if you ignore it - we certainly do not intend to tell you how to run your programs), it might be simpler to just list all our 300-400 level courses (other than 480, which is major restricted): we would guess all of them are useful for mathematics educators, and this would avoid any issues with future changes to our courses. It also seems a little odd to us that the current list mainly omits our applied math courses (possibly under the philosophy that these are more useful for industry than for educators? - nonetheless, it might still be useful for educators to learn some of these subjects).

Thank you again,

Rufus

On 11/21/21 5:42 PM, Linda Furuto wrote: Aloha Rufus,

Thank you very much for your email. Please see below for my responses in green. Please let me know if you have any questions.

Best wishes!

Mahalo, Linda

On Sat, Nov 20, 2021 at 8:46 AM Patricia Halagao < phalagao@hawaii.edu > wrote: Hi Rufus.

Thanks for getting back to us. I'm going to ask Linda to answer your questions below. I can only address a few.

Aloha, Patricia

On Fri, Nov 19, 2021 at 6:08 AM Rufus Willett <rufus@math.hawaii.edu> wrote:

Dear Dr. Halagao (and Dr. Furuto),

Thank you for your message. I shared this with our Director of Undergraduate Studies (Mirjana Jovovic) and Associate Chair (Bjørn Kjos-Hanssen), who are in the cc.

Sorry for the hassle, but we were a bit confused about some points, and were hoping you could clarify. Could we ask the following:

- Is this going to be a track within the MEd in Curriculum Studies (or a different degree)? How many math courses will it require?

Yes, this is a track within our MEd in Curriculum Studies degree program. I will let Linda answer how many math courses it will require. For a list of courses in the MEd Curriculum Studies, Math Education, please see the link to the MEd CS Handbook and the direct link to a PDF version of MEd CS Handbook 1 Prospective and New Students 2021-2022. The courses are listed on pp. 23-24. There are no required math courses, however, there are required math education courses.

- Do you have any idea how many students this might involve, and what the level of their math background might be?

Linda will have a better sense of this. Data from the past three years show we have an average of 5-8 students completing the MEd Curriculum Studies, Math Education per

year. For a list of admission requirements, please click on the accordion <u>Admission</u> <u>Requirements</u>. A bachelor's degree in math or math education is not required; however, most of our students have bachelor's degrees in math, math education, science, and/or science education.

- Is there any reason for omitting some of our 300 and 400-level courses? The list seems to cover most of our 300 and 400 level courses, but not all of them, and we were a bit confused why some were omitted.

Linda can answer this. These 300 and 400-level courses were already listed on the Math Ed program sheet prior to 2013 when I joined the COE so I am not sure who was involved in the selection of these courses. Over the past eight years (since 2013), none of our graduate students have taken math courses as part of the MEd Curriculum Studies, Math Education. We wanted to continue to keep the math courses listed in case future graduate students were interested in this option. However, if you prefer, I would be okay with removing the math courses as "Other Recommended Courses".

- On a purely technical level, Math 351 and 352 are no longer taught. They have been replaced by the single course 353 "Introduction to Euclidean and non-Euclidean geometries".

We can eliminate 351 and 352 and replace it with 353. Thank you very much for letting us know.

Thank you very much,

Rufus

Rufus Willett Professor and Chair Mathematics, University of Hawai'i at Mānoa Pronouns: he / him

On Nov 18, 2021, at 12:02 AM, Patricia Halagao <phalagao@hawaii.edu> wrote:

Dear Dr. Willett,

My name is Patricia Halagao and I am Chair of the Department of Curriculum Studies in the College of Education. Our Department recently submitted a proposal to Graduate Division to add a Mathematics Education track in our program. As part of this track, we have listed the following courses as "other recommended" electives for our in-service

teacher/graduate student if they want to further their professional development and understanding in math:

MATH 301: Introduction to Discrete Mathematics (3)

MATH 302: Introduction to Differential Equations (I) (3)

MATH 304: Mathematical Modeling: Deterministic Models (3)

MATH 305: Mathematical Modeling: Probabilistic Models (3)

MATH 311: Introduction to Linear Algebra (3)

MATH 321: Introduction to Advanced Mathematics (3)

MATH 331: Introduction to Real Analysis (3)

MATH 351: Foundations of Euclidean Geometry (3)

MATH 352: Non-Euclidean Geometries (3)

MATH 372: Elementary Probability and Statistics (3)

MATH 411: Linear Algebra (3)

MATH 412: Introduction to Abstract Algebra (I) (3)

MATH 413: Introduction to Abstract Algebra (II) (3)

MATH 420: Introduction to the Theory of Numbers (3)

MATH 421: Topology (3)

MATH 431: Principles of Analysis (I) (3)

MATH 455: Mathematical Logic (3)

MATH 471: Probability (3)

MATH 475: Combinatorial Mathematics (3)

When we met with Graduate council for their approval of our track, they encouraged us to consult with you as the Chair to verify we can list these courses as "other recommended" in our program sheet. When I spoke to our mathematics education faculty member, Dr. Linda Furuto mentioned these courses were already listed on the Math Ed program sheet prior to 2013 when she joined the COE, which leads me to believe that previous chairs had approved these courses to be listed. Nonetheless, I would like to request your permission to list these course on our Math Education track program sheet. If you are amenable, an email with a statement of your approval as Department chair will suffice.

Please let me know if you have further questions.

Aloha, Patricia

__

Patricia Espiritu Halagao, PhD (she | her)

Professor & Chair, Department of Curriculum Studies College of Education University of Hawai'i, Mānoa (808) 956-9295 | phalagao@hawaii.edu

CS Dept: https://coe.hawaii.edu/cs/

ZOOM Office: https://coehawaii.zoom.us/my/patricia.halagao

