

New Program Code Replace Program Code Date: _____

REQUESTOR CONTACT INFORMATION

Name _____ Campus _____
 Title _____ Email _____
 Office/Dept _____ Phone _____

NEW PROGRAM CODE TO CREATE

Institution _____ Campus _____
 Level _____ Effective Term _____

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) _____	_____	<input type="checkbox"/> See Banner form STV_COLL
Department	(4) _____	_____	<input type="checkbox"/> See Banner form STV_DEPT
Degree/Certificate	(6) _____	_____	<input type="checkbox"/> See Banner form STV_DEGC
Major	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR
Concentration	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STV_MAJR

If a similar major/concentration code exists in Banner, please list the code: _____

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

Is this major/concentration code being used the same way at the other UH campuses? Yes No

Should this program be available for applicants to select as their planned course of study on the online application? *If yes, student may select the code as their only program of study.* Yes No

RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION

Is 50% or greater of the classes in this program offered at a location other than the Home Campus? Yes No

Is this program/major/certificate financial aid eligible? Yes No

Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)?
 See <http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html> Yes No

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.

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 _____	Program Description _____
Institution _____	Campus _____
College _____	Department _____
Level _____	
Are current students "grandfathered" under the program code? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Should the old program code be available for use in Banner? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Effective , old program code will no longer be available to admit or recruit students.	
<small>Term (ie. Fall 2020)</small>	
<i>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.</i>	
Effective , old program code will no longer be available to award degree to students.	
<small>Term (ie. Fall 2020)</small>	
<i>This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.</i>	

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

<p>CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...</p> <p><input type="checkbox"/> BOR approved certificate. BOR Meeting/Approval Date: _____</p> <p><input type="checkbox"/> Chancellor approved within an authorized BOR program. BOR Program: _____</p> <p><input type="checkbox"/> Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.</p>

VERIFICATIONS

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

<p>Registrar (Print Name)</p> <p>_____</p>	<p>Financial Aid Officer (Print Name)</p> <p>_____</p>	<p>For Community Colleges, verification of consultation with OVPCC Academic Affairs: Tammi Oyadomari-Chun</p> <p>_____</p>
Signature	Date	Signature
Signature	Date	Signature
Date	Date	Date

ADDITIONAL COMMENTS



UNIVERSITY
of HAWAI'I®
MĀNOA

College of Natural Sciences
Mathematics Department

Date: December 23rd, 2021

To: Laura Lyons, Interim Vice Provost for Academic Excellence

Via: Aloysius Helminck, Dean, College of Natural Science

From: Rufus Willett, Chair, Department of Mathematics

Re: Undergraduate Program Modification, BS in Mathematics, Data Science Track

The faculty of the Department of Mathematics would like to introduce a new Computational Science track in the Mathematics BS.

The new track, which we aim to initiate in Fall 2022, would allow students to earn a BS in Mathematics within the Computational Science track by completing certain Mathematics and ICS courses that emphasize modeling, simulation, and differential equations—three pillars of Computational Science—while fulfilling the usual Mathematics BS requirements. These courses were selected in consultation with faculty from the Mathematics and ICS departments who have Computational Science expertise.

The rationale is to give mathematics majors the opportunity to pursue a specialized degree in an area of Mathematics that is becoming increasingly important in academia and industry. Note that the proposed Computational Science track is different from the existing Data Science track in Mathematics, which has more of an emphasis on topics like statistics and machine learning.

APPROVED / DISAPPROVED

Laura E. Lyons
Interim Vice Provost for Academic Excellence

2/1/22

Date

2565 McCarthy Mall, Keller 401A
Honolulu, Hawai'i 96822
Telephone: (808) 956-4679
Fax: (808) 956-4710
natsci.manoa.hawaii.edu

An Equal Opportunity/Affirmative Action Institution

Catalog description

Mathematics BS, Computational Science track

Students must complete PHYS 170/170L and PHYS 272/272L, as well as MATH 244 or 253A, and must complete 30 credit hours in mathematics courses numbered between 300 to 479 and 10 credit hours in related ICS courses including the following:

- MATH 304, 305, 307 or 311, 321, 331, 402, 407, 411, and 414
- ICS 211, 212, and 484
- 6 credit hours in writing-intensive mathematics courses
- 12 credit hours in mathematics courses numbered above 400
- Students must also complete MATH 480 (CR/NC only) (final year)
- Only courses in which a student earns a grade of C (not C-) or better will be counted toward fulfillment of major requirements
- All mathematics majors are required to see a mathematics advisor each semester prior to the next semester registration
- Students must demonstrate an understanding of algorithms and logic, as well as precision of thinking

University of Hawai‘i at Mānoa
College of Natural Sciences Program Sheet 2021-2022
Bachelor of Science (BS) in Mathematics
Computational Science Track
Admissions: Open Process: Declaration
Min. Total Credits: 120 (113 in core & major + 7 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FQ* MATH 241 or 251A
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<i>*Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.</i>
Diversification
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB
<input type="checkbox"/> DP PHYS 170
<input type="checkbox"/> DY PHYS 170L
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
Focus
<input type="checkbox"/> H
<input type="checkbox"/> E (300+)
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
Hawaiian / Second Language
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 45 upper division (300+ level) credits
Grade Point Average
• 2.0 cumulative or higher (<i>Note: Other GPAs may be required.</i>)
• Good academic standing

Degree Requirements
Bachelor of Science Requirements
<input type="checkbox"/> Calculus I
<input type="checkbox"/> Calculus II
<input type="checkbox"/> Chemistry I with lab
<input type="checkbox"/> Chemistry II with lab
<input type="checkbox"/> Physics I with lab
<input type="checkbox"/> Physics II with lab
<i>Refer to major requirements for the specific courses that satisfy these requirements.</i>
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship

Admission: Open

Application: NA

Min. major credits: BS = 45 (69-70 with related requirements)

Min. C grade (not C-) in courses

Requirements

Mathematics Prerequisites Requirements (11-12 credits)

MATH 241*^{FQ} or 251A*^{FQ}

MATH 242 or 252A

MATH 243 or 253A

Related Mathematics Requirements (13 credits)

PHYS 170*^{DP} / 170L*^{DY}

PHYS 272*^{DP} / 272L*^{DY}

ICS 111

Mathematics Courses (45 credits; see department for approved courses; see catalog for prerequisites)

MATH 244 or 253A

Students must demonstrate an understanding of algorithms and logic, as well as precision of thinking. Courses that satisfy this requirement are MATH 190, 301, 304L, 305L, 407, 414; CEE 417; EE 160; EARTH 250; ICS 110C, 110D, 111, 211; ME 360; PHYS 305.

30 core credits in MATH 300-479 courses:

MATH 304 MATH 305 MATH 311 or 307 MATH 321 MATH 331

MATH 402 MATH 407 MATH 411 MATH 414 _____

10 related credits of ICS courses:

ICS 211

ICS 212

ICS 484

The following requirements must be fulfilled in regards to the **43 above credits** (check completed):

6 credit hours in writing-intensive mathematics courses

12 credit hours in courses numbered above 400

MATH 480 (CR/NC only) (Spring only, last semester)

Additional Mathematics Restrictions

Only one of MATH 307 and 311 may be counted toward major requirements.

Mandatory advising each semester prior to registration.

Student Academic Success Center; Sinclair 301; (808) 956-5911; cnsadvis@hawaii.edu; natsci.manoa.hawaii.edu/sasc

Mathematics Department: Keller 401-A; (808) 956-4680; office@math.hawaii.edu; www.math.hawaii.edu

Mathematics Undergraduate Advisor: Keller 419; (808) 956-4679

There may be exceptions to the major requirements listed above. Please schedule an advising appointment with Undergraduate Advising personnel for more detailed information.

University of Hawai‘i at Mānoa – Four-Year Academic Plan 2021-2022

College of Natural Sciences

Bachelor of Science (BS) in Mathematics

Computational Science Track

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
MATH 241 or 251A (FQ)	4	MATH 243 or 253A	3	MATH 331	3	MATH 407	3
ICS 111	4	MATH 321	3	CHEM 161	3	ICS 484	3
FW	3	PHYS 170 (DP)	4	CHEM 161L	1	Elective 300+	3
FG (A/B/C)	3	PHYS 170L (DY)	1	MATH 304	3	Elective 300+	3
DA/DH/DL	3	HSL 101	3	DS 300+	3	DS	3
				HSL 201	3		
Credits	17	Credits	14	Credits	16	Credits	15
Spring		Spring		Spring		Spring	
MATH 242 or 252A	4	MATH 244 or 253A	3	MATH 300+ or 400+	3	MATH 402	3
ICS 211	4	MATH 311 or 307	3	MATH 411	3	MATH 414	3
DA/DH/DL	3	PHYS 272	3	CHEM 162	3	MATH 480	2
FG (A/B/C)	3	PHYS 272L	1	CHEM 162L	1	DB	3
		ICS 212	3	MATH 305	3	Elective 300+	1
		HSL 102	3	HSL 202	3		
Credits	14	Credits	16	Credits	16	Credits	12
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
Total Credits	31	Total Credits	61	Total Credits	93	Total Credits	120

Notes:

Students must see a Mathematics advisor prior to registration to discuss their academic plan options. Students must take placement exams to be able to register for CHEM 161 and MATH 241. Students must incorporate all focus requirements into this plan. Focus designations (i.e., W, E, O, H) are CRN specific and semester specific. Minimum 45 upper division credits are required.



Pheng Xiong <pxiong@hawaii.edu>

Math Modifications

20 messages

Cynthia Tang <cntang@hawaii.edu>

Thu, Feb 3, 2022 at 2:03 PM

To: Rufus Willett <rwillett@hawaii.edu>

Cc: Aloysius Helminck <helminck@hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>, Lynne Higa <lynnehig@hawaii.edu>, Nikki Chun <nkchun@hawaii.edu>, Ryan Yamaguchi <ryamagu@hawaii.edu>, Diane Nakashima <dianena@hawaii.edu>, Joy N Nishida <jnishida@hawaii.edu>, Max Xiong <pxiong@hawaii.edu>, Lisa Imai <lisaakam@hawaii.edu>, Stephanie Kailiawa <stephk@hawaii.edu>, Grant Kim <grantkim@hawaii.edu>, Pearl Iboshi <iboshi@hawaii.edu>, David Mongold <mongold@hawaii.edu>, Fiorella Penalzoza <fpenaloz@hawaii.edu>, Megan Terawaki <megant@hawaii.edu>, Patty Bedoya <pbedoya@hawaii.edu>, Kevin Kaneshiro <kevinfk@hawaii.edu>, Alison Kanekuni <kanekuni@hawaii.edu>, Melanie Nishimura <mnishimu@hawaii.edu>, April Quinn <agoodwin@hawaii.edu>

Aloha Rufus,

Attached for your appropriate attention are the copies of the approved program modifications:

Undergraduate Program Modification, BS in Mathematics, Data Science Track

New Computational Science Track in the Mathematics BS

These are your official copies.

Should you have any questions, please contact April Quinn at agoodwin@hawaii.edu (copied for your convenience).

Thank you,

Cynthia

Cynthia N. Tang

Administrative and Fiscal Support Specialist
Office of the Provost
University of Hawai'i at Mānoa
[2500 Campus Road](#), Hawai'i Hall 307
Honolulu, HI 96822

(808) 956-7486 / FAX (808) 956-5136

2 attachments

NS-New Computational Science Track in the Mathematics BS.pdf
593K

NS-Undergraduate Program Modification, BS in Mathematics, Data Science Track.pdf
527K

Rufus Willett <rufus@math.hawaii.edu>

Thu, Feb 3, 2022 at 2:57 PM

To: Cynthia Tang <cntang@hawaii.edu>, Rufus Willett <rwillett@hawaii.edu>

Cc: Aloysius Helminck <helminck@hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>, Lynne Higa <lynnehig@hawaii.edu>, Nikki Chun <nkchun@hawaii.edu>, Ryan Yamaguchi <ryamagu@hawaii.edu>, Diane Nakashima <dianena@hawaii.edu>, Joy N Nishida <jnishida@hawaii.edu>, Max Xiong <pxiong@hawaii.edu>, Lisa Imai <lisaakam@hawaii.edu>, Stephanie Kailiawa <stephk@hawaii.edu>, Grant Kim <grantkim@hawaii.edu>, Pearl Iboshi <iboshi@hawaii.edu>, David Mongold <mongold@hawaii.edu>, Fiorella Penalzoza <fpenaloz@hawaii.edu>, Megan Terawaki <megant@hawaii.edu>, Patty Bedoya <pbedoya@hawaii.edu>, Kevin Kaneshiro <kevinfk@hawaii.edu>, Alison Kanekuni <kanekuni@hawaii.edu>, Melanie Nishimura <mnishimu@hawaii.edu>, April Quinn <agoodwin@hawaii.edu>

Hello Cynthia,

Thank you, and looks good: this is to acknowledge receipt.

Cheers,

Rufus

On 2/3/22 2:03 PM, Cynthia Tang wrote:

Aloha Rufus,

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Thank you,

Cynthia

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Cynthia N. Tang

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Office of the Provost
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[2500 Campus Road](#), Hawai'i Hall 307
Honolulu, HI 96822

(808) 956-7486 / FAX (808) 956-5136

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

Lynne Higa <lynnehig@hawaii.edu>
To: Max Xiong <pxiong@hawaii.edu>, April Quinn_OVPAE <agoodwin@hawaii.edu>
Cc: "A. Sherwood_CNS" <asherwoo@hawaii.edu>

Thu, Feb 10, 2022 at 12:47 PM

Aloha Max and April,

What do we need to do to establish a concentration code for this newly approved track within the BS Math degree?

The current codes are:

Mathematics - BS (General)	MATH-BS
Mathematics - BS (Data Science)	MATH -BS-DSCI

Lynne

From: Cynthia Tang <cntang@hawaii.edu>
Sent: Thursday, February 3, 2022 2:04 PM
To: Rufus Willett <rwillett@hawaii.edu>
Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <rtyamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold <mongold@hawaii.edu>; Fiorella Penaloza <fpenaloz@hawaii.edu>; Megan Terawaki <megant@hawaii.edu>; Patty Bedoya <pbedoya@hawaii.edu>; Kevin Kaneshiro <kevinfk@hawaii.edu>; Alison Kanekuni <kanekuni@hawaii.edu>; Melanie Nishimura <mnishimu@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>
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 **NS-New Computational Science Track in the Mathematics BS.pdf**
593K

April Nozomi Quinn <agoodwin@hawaii.edu>
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Max Xiong <pxiong@hawaii.edu>, "A. Sherwood_CNS" <asherwoo@hawaii.edu>

Mon, Feb 14, 2022 at 2:56 PM

Hi Lynne,
Great question!
Max- do you need additional documentation or can you request the codes with this memo as back-up?
Thanks!
April

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence
University of Hawaii at Manoa
2500 Campus Road, Hawaii Hall, 209
Honolulu, HI 96822
Office: (808) 956-4568 / Fax: (808) 956-7115
<http://www.manoa.hawaii.edu>

On Thu, Feb 10, 2022 at 12:47 PM Lynne Higa <lynnehig@hawaii.edu> wrote:

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To: Pheng Xiong <pxiong@hawaii.edu>

Cc: Alison R Sherwood <asherwoo@hawaii.edu>, April Nozomi Quinn <agoodwin@hawaii.edu>, Rufus Willett_MATH <rufus@math.hawaii.edu>

Tue, Feb 22, 2022 at 5:39 PM

Hi Max,

Please let me know if there is anything I can do to assist with obtaining the concentration code for the new Computational Science track. I was thinking that MATH-BS-CSCI would be in keeping with the Data Science Track, unless it is problematic to use CSCI (which is also known as the Computer Science major).

Lynne

From: April Nozomi Quinn <agoodwin@hawaii.edu>

Sent: Monday, February 14, 2022 2:56 PM

To: Lynne Higa <lynnehig@hawaii.edu>

Cc: Max Xiong <pxiong@hawaii.edu>; A. Sherwood_CNS <asherwoo@hawaii.edu>

Subject: Re: FW: Math Modifications

Hi Lynne,

Great question!

Max- do you need additional documentation or can you request the codes with this memo as back-up?

Thanks!

April

April Nozomi Quinn, PhD

Director of Program Development and Review

Office of the Vice Provost for Academic Excellence

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[2500 Campus Road](#), Hawaii Hall, 209

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To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Alison R Sherwood <asherwoo@hawaii.edu>, April Nozomi Quinn <agoodwin@hawaii.edu>, Rufus Willett_MATH <rufus@math.hawaii.edu>

Hi April and Lynne,

Yes - we will need to create a new concentration code for the new track. The memo should be fine. Thanks for the code suggestion Lynne - I'll use this one in the PCR to IRAO.

On Tue, Feb 22, 2022 at 5:39 PM Lynne Higa <lynnehig@hawaii.edu> wrote:

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To: Rufus Willett <rwilllett@hawaii.edu>
Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <ryamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold <mongold@hawaii.edu>; Fiorella Penaloz <fpenaloz@hawaii.edu>; Megan Terawaki <megant@hawaii.edu>; Patty Bedoya <pbedoya@hawaii.edu>; Kevin Kaneshiro

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Pheng Xiong, M.Ed. Hear my name

University Registrar, Office of the Registrar

p: 808-956-8010

w: manoa.hawaii.edu/registrar

e: pxiong@hawaii.edu

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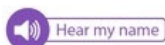
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UNIVERSITY of HAWAII MĀNOA



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University of Hawai'i at Mānoa

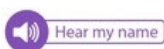
[2500 Campus Road](#), Hawai'i Hall 307

Honolulu, HI 96822

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w: manoa.hawaii.edu/registrar

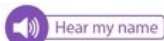
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Cc: Lynne Higa <lynnehig@hawaii.edu>, April Quinn <agoodwin@hawaii.edu>, Rufus Willett_MATH <rufus@math.hawaii.edu>

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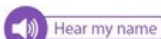
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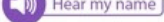
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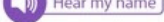
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Hi Lynne (and Rufus)

I had drafted this text on the PCR to simply it for IRAO:

A new concentration code of CLSC is requested to distinguish from Computer Science (CSCI). Please note that Computational Science differs from Computer Science in that computer science is about the use of computers, their hardware, and software. Computational Science is related to science research using computation to solve problems.

If this works, I will include it in the request to IRAO.

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The current codes are:

Mathematics - BS (General)	MATH-BS
Mathematics - BS (Data Science)	MATH -BS-DSCI

Lynne

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Sent: Thursday, February 3, 2022 2:04 PM
To: Rufus Willett <rwillett@hawaii.edu>
Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <ryamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold <mongold@hawaii.edu>; Fiorella Penaloza <fpenaloz@hawaii.edu>; Megan Terawaki <megant@hawaii.edu>; Patty Bedoya <pbedoya@hawaii.edu>; Kevin Kaneshiro <kevinfk@hawaii.edu>; Alison Kanekuni <kanekuni@hawaii.edu>; Melanie Nishimura <mnishimu@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>
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Undergraduate Program Modification, BS in Mathematics, Data Science Track

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Should you have any questions, please contact April Quinn at agoodwin@hawaii.edu (copied for your convenience).

Thank you,

Cynthia

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Cynthia N. Tang

Administrative and Fiscal Support Specialist

Office of the Provost

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2500 Campus Road, Hawai'i Hall 307

Honolulu, HI 96822

(808) 956-7486 / FAX (808) 956-5136



UNIVERSITY
of HAWAII
MĀNOA



Hear my name

Pheng Xiong, M.Ed.
University Registrar, Office of the Registrar

p: 808-956-8010

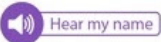
w: manoa.hawaii.edu/registrar

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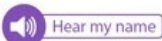
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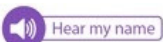
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What about MATH-BS-COMP?

Alison

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Professor, School of Life Sciences

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Lynne

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Sent: Monday, February 14, 2022 2:56 PM
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Max Xiong <pxiong@hawaii.edu>; A. Sherwood_CNS <asherwoo@hawaii.edu>
Subject: Re: FW: Math Modifications

Hi Lynne,

Great question!

Max- do you need additional documentation or can you request the codes with this memo as back-up?

Thanks!

April

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence
University of Hawaii at Manoa
2500 Campus Road, Hawaii Hall, 209
Honolulu, HI 96822
Office: (808) 956-4568 / Fax: (808) 956-7115
<http://www.manoa.hawaii.edu>

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

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Interim Associate Dean, College of Natural Sciences

Professor, School of Life Sciences

University of Hawai'i at Mānoa

<http://sherwoodalgalbiodiversitylab.weebly.com/>

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To: Lynne Higa <lynnehig@hawaii.edu>
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Thanks!

April

April Nozomi Quinn, PhD
Director of Program Development and Review
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April Nozomi Quinn <agoodwin@hawaii.edu>

Wed, Feb 23, 2022 at 12:32 PM

To: Pheng Xiong <pxiong@hawaii.edu>

Cc: Rufus Willett <rufus@math.hawaii.edu>, Lynne Higa <lynnehig@hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>

Aloha,
Apologies for coming late to this discussion. Just to confirm, I am comfortable with this approach, but want to confirm that the CIP code (used by NCES to track all academic programs) for Computational Science is aligned with 30.3001 below (and not 11.0701). Is this accurate?
Thank you!
April

Detail for CIP Code 30.3001

Title: Computational Science.

[Print](#)

Definition: A program that focuses on the study of scientific computing and its application. Includes instruction in scientific visualization, multi-scale analysis, grid generation, data analysis, applied mathematics, numerical algorithms, high performance parallel computing, and numerical modeling and simulation with applications in science, engineering and other disciplines in which computation plays an integral role.

Detail for CIP Code 11.0701

Title: Computer Science.

[Print](#)

Definition: A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.

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University Registrar, Office of the Registrar

[redacted]

p: 808-956-8010

w: manoa.hawaii.edu/registrar

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



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To: April Nozomi Quinn <agoodwin@hawaii.edu>
Cc: Rufus Willett <rufus@math.hawaii.edu>, Lynne Higa <lynnehig@hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>

Wed, Feb 23, 2022 at 12:40 PM

Hi April,

I thought about the CIP code (the computational science CIP makes sense to me), but they're usually only attached to the major and not the concentration. Will IRAO be okay attaching a CIP to a concentration though?

On Wed, Feb 23, 2022 at 12:33 PM April Nozomi Quinn <agoodwin@hawaii.edu> wrote:

Aloha,
Apologies for coming late to this discussion. Just to confirm, I am comfortable with this approach, but want to confirm that the CIP code (used by NCES to track all academic programs) for Computational Science is aligned with 30.3001 below (and not 11.0701). Is this accurate?
Thank you!
April

Detail for CIP Code 30.3001

Title: Computational Science.

[Print](#)

Definition: A program that focuses on the study of scientific computing and its application. Includes instruction in scientific visualization, multi-scale analysis, grid generation, data analysis, applied mathematics, numerical algorithms, high performance parallel computing, and numerical modeling and simulation with applications in science, engineering and other disciplines in which computation plays an integral role.

Detail for CIP Code 11.0701

Title: Computer Science.

[Print](#)

Definition: A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence
University of Hawaii at Manoa
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Office: (808) 956-4568 / Fax: (808) 956-7115
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Max

On Wed, Feb 23, 2022 at 11:36 AM Rufus Willett <rufus@math.hawaii.edu> wrote:

Hello all,

Thank you: this looks good to me.

Cheers,

Rufus

On 2/23/22 11:35 AM, Lynne Higa wrote:

Hi Max,

That sounds okay to me, but I'll let Rufus give the final okay.

Lynne

From: Pheng Xiong <pxiong@hawaii.edu>

Sent: Wednesday, February 23, 2022 11:19 AM

To: Lynne Higa <lynnehig@hawaii.edu>

Cc: Alison R Sherwood <asherwoo@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>; Rufus Willett_MATH <rufus@math.hawaii.edu>

Subject: Re: FW: Math Modifications

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Subject: Re: FW: Math Modifications

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What about MATH-BS-COMP?

Alison

--

Interim Associate Dean, College of Natural Sciences

Professor, School of Life Sciences

University of Hawai'i at Mānoa

<http://sherwoodalgalbiodiversitylab.weebly.com/>

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Anyone have suggestions?

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Lynne

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Sent: Monday, February 14, 2022 2:56 PM
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Max Xiong <pxiong@hawaii.edu>; A. Sherwood_CNS <asherwoo@hawaii.edu>
Subject: Re: FW: Math Modifications

Hi Lynne,

Great question!

Max- do you need additional documentation or can you request the codes with this memo as back-up?

Thanks!

April

April Nozomi Quinn, PhD
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On Thu, Feb 10, 2022 at 12:47 PM Lynne Higa <lynnehig@hawaii.edu> wrote:

Aloha Max and April,

What do we need to do to establish a concentration code for this newly approved track within the BS Math degree?

The current codes are:

Mathematics - BS (General)	MATH-BS
Mathematics - BS (Data Science)	MATH -BS-DSCI

Lynne

From: Cynthia Tang <cntang@hawaii.edu>
Sent: Thursday, February 3, 2022 2:04 PM
To: Rufus Willett <rwillett@hawaii.edu>
Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <ryamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold <mongold@hawaii.edu>; Fiorella Penaloza <fpenaloz@hawaii.edu>; Megan Terawaki <megant@hawaii.edu>; Patty Bedoya <pbedoya@hawaii.edu>; Kevin Kaneshiro <kevinfk@hawaii.edu>; Alison Kanekuni <kanekuni@hawaii.edu>; Melanie Nishimura <mnishimu@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>
Subject: Math Modifications

Aloha Rufus,

Attached for your appropriate attention are the copies of the approved program modifications:

Undergraduate Program Modification, BS in Mathematics, Data Science Track

New Computational Science Track in the Mathematics BS

These are your official copies.

Should you have any questions, please contact April Quinn at agoodwin@hawaii.edu (copied for your convenience).

Thank you,

Cynthia

--

Cynthia N. Tang

Administrative and Fiscal Support Specialist

Office of the Provost

University of Hawai'i at Mānoa

[2500 Campus Road](#), Hawai'i Hall 307

Honolulu, HI 96822

(808) 956-7486 / FAX (808) 956-5136

--

Pheng Xiong, M.Ed. [redacted]
University Registrar, Office of the Registrar

p: 808-956-8010

w: manoa.hawaii.edu/registrar

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



UNIVERSITY
of HAWAII
MĀNOA

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Cc: Rufus Willett <rufus@math.hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>

Wed, Feb 23, 2022 at 2:03 PM

Hi April,

You are correct - the track is aligned with 30.3001, and not 11.0701.

Lynne

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Cc: Rufus Willett <rufus@math.hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>
Subject: Re: FW: Math Modifications

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• Print

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Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <ryamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold <mongold@hawaii.edu>;

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Subject: Math Modifications

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Undergraduate Program Modification, BS in Mathematics, Data Science Track
New Computational Science Track in the Mathematics BS

These are your official copies.

Should you have any questions, please contact April Quinn at agoodwin@hawaii.edu (copied for your convenience).

Thank you,

Cynthia

--

Cynthia N. Tang

Administrative and Fiscal Support Specialist

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--

Pheng Xiong, M.Ed. [redacted]
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p: 808-956-8010

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--

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



UNIVERSITY
of HAWAII
MĀNOA

Pheng Xiong, M.Ed.  Hear my name
University Registrar, Office of the Registrar

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April Nozomi Quinn <agoodwin@hawaii.edu>
To: Lynne Higa <lynnhig@hawaii.edu>
Cc: Pheng Xiong <pxiong@hawaii.edu>, Rufus Willett <rufus@math.hawaii.edu>, Alison R Sherwood <asherwoo@hawaii.edu>

Wed, Feb 23, 2022 at 3:30 PM

Thank you, Lynne!

Max- this all sounds good to me. Thank you, everyone!
April

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence
University of Hawaii at Manoa
2500 Campus Road, Hawaii Hall, 209
Honolulu, HI 96822
Office: (808) 956-4568 / Fax: (808) 956-7115
<http://www.manoa.hawaii.edu>

On Wed, Feb 23, 2022 at 2:03 PM Lynne Higa <lynnhig@hawaii.edu> wrote:

Hi April,

You are correct - the track is aligned with 30.3001, and not 11.0701.

Lynne

From: April Nozomi Quinn <agoodwin@hawaii.edu>
Sent: Wednesday, February 23, 2022 12:33 PM
To: Pheng Xiong <pxiong@hawaii.edu>
Cc: Rufus Willett <rufus@math.hawaii.edu>; Lynne Higa <lynnhig@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>
Subject: Re: FW: Math Modifications

Aloha,

Apologies for coming late to this discussion. Just to confirm, I am comfortable with this approach, but want to confirm that the CIP code (used by NCES to track all academic programs) for Computational Science is aligned with 30.3001 below (and not 11.0701). Is this accurate?

Thank you!

April

Detail for CIP Code 30.3001

• Print

Title: Computational Science.

Definition: A program that focuses on the study of scientific computing and its application. Includes instruction in scientific visualization, multi-scale analysis, grid generation, data analysis, applied mathematics, numerical algorithms, high performance parallel computing, and numerical modeling and simulation with applications in science, engineering and other disciplines in which computation plays an integral role.

Detail for CIP Code 11.0701

• Print

Title: Computer Science.

Definition: A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.

April Nozomi Quinn, PhD

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<http://www.manoa.hawaii.edu>

On Wed, Feb 23, 2022 at 11:39 AM Pheng Xiong <pxiong@hawaii.edu> wrote:

Thanks Rufus and Lynne.

April if this sounds good to you too, I will submit the PCR to IRAO with the explanation for the new concentration code.

Max

On Wed, Feb 23, 2022 at 11:36 AM Rufus Willett <rufus@math.hawaii.edu> wrote:

Hello all,

Thank you: this looks good to me.

Cheers,

Rufus

On 2/23/22 11:35 AM, Lynne Higa wrote:

Hi Max,

That sounds okay to me, but I'll let Rufus give the final okay.

Lynne

From: Pheng Xiong <pxiong@hawaii.edu>
Sent: Wednesday, February 23, 2022 11:19 AM
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Alison R Sherwood <asherwoo@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>; Rufus Willett_MATH <rufus@math.hawaii.edu>
Subject: Re: FW: Math Modifications

Hi Lynne (and Rufus)

I had drafted this text on the PCR to simply it for IRAO:

A new concentration code of CLSC is requested to distinguish from Computer Science (CSCI). Please note that Computational Science differs from Computer Science in that computer science is about the use of computers, their hardware, and software. Computational Science is related to science research using computation to solve problems.

If this works, I will include it in the request to IRAO.

On Wed, Feb 23, 2022 at 10:35 AM Lynne Higa <lynnehig@hawaii.edu> wrote:

Hi Max,

Rufus – please correct me if I am not explaining this well (or incorrectly). Computational science can be considered an interdisciplinary in nature in that it does involve knowledge of both mathematics and computer science. This computational science track heavily focuses on mathematical modeling/techniques and is reflected in the requirements for this track. The vast majority of the courses required for this track are MATH courses and not ICS courses. It is considered an applied math degree.

Lynne

From: Pheng Xiong <pxiong@hawaii.edu>
Sent: Wednesday, February 23, 2022 10:14 AM
To: Alison R Sherwood <asherwoo@hawaii.edu>
Cc: Lynne Higa <lynnehig@hawaii.edu>; April Quinn <agoodwin@hawaii.edu>; Rufus Willett_MATH <rufus@math.hawaii.edu>
Subject: Re: FW: Math Modifications

Forgot to add - just in case IRAO were to ask (they most likely will) - how does computational science differ from computer science? I'd like to make sure that this request goes smoothly and without question from IRAO.

Max

On Wed, Feb 23, 2022 at 10:11 AM Pheng Xiong <pxiong@hawaii.edu> wrote:

Hi Alison,

Actually COMP code is already taken - and so are others that I was thinking of. Can I suggest CLSC instead?

Max

On Wed, Feb 23, 2022 at 9:36 AM Alison R Sherwood <asherwoo@hawaii.edu> wrote:

What about MATH-BS-COMP?

Alison

--

Interim Associate Dean, College of Natural Sciences

Professor, School of Life Sciences

University of Hawai'i at Mānoa

<http://sherwoodalgalbiodiversitylab.weebly.com/>

On Wed, Feb 23, 2022 at 8:18 AM Lynne Higa <lynnehig@hawaii.edu> wrote:

Hi Max,

We want to indicate the track is Computational Science. Sounds like the 4 letter code of CSCI won't work – I was hoping that the combination of the 3 codes (MATH-BS-CSCI) versus CSCI-BS) would allow it to be distinguished from the Computer Science degree, which is different from this new track in the BS Math degree.

Anyone have suggestions?

Lynne

From: Pheng Xiong <pxiong@hawaii.edu>
Sent: Wednesday, February 23, 2022 7:58 AM
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Alison R Sherwood <asherwoo@hawaii.edu>; April Nozomi Quinn <agoodwin@hawaii.edu>; Rufus Willett_MATH <rufus@math.hawaii.edu>
Subject: Re: FW: Math Modifications

Quick question - I noticed that the track name is 'computational science'. Since the CSCI code exists as 'computer science' are we fine that this will be the name displayed on the student's academic record and STAR?

Max

On Wed, Feb 23, 2022 at 7:52 AM Pheng Xiong <pxiong@hawaii.edu> wrote:

Hi April and Lynne,

Yes - we will need to create a new concentration code for the new track. The memo should be fine. Thanks for the code suggestion Lynne - I'll use this one in the PCR to IRAO.

On Tue, Feb 22, 2022 at 5:39 PM Lynne Higa <lynnehig@hawaii.edu> wrote:

Hi Max,

Please let me know if there is anything I can do to assist with obtaining the concentration code for the new Computational Science track. I was thinking that MATH-BS-CSCI would be in keeping with the Data Science Track, unless it is problematic to use CSCI (which is also known as the Computer Science major).

Lynne

From: April Nozomi Quinn <agoodwin@hawaii.edu>
Sent: Monday, February 14, 2022 2:56 PM
To: Lynne Higa <lynnehig@hawaii.edu>
Cc: Max Xiong <pxiong@hawaii.edu>; A. Sherwood_CNS <asherwoo@hawaii.edu>
Subject: Re: FW: Math Modifications

Hi Lynne,

Great question!

Max- do you need additional documentation or can you request the codes with this memo as back-up?

Thanks!

April

April Nozomi Quinn, PhD
Director of Program Development and Review
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<http://www.manoa.hawaii.edu>

On Thu, Feb 10, 2022 at 12:47 PM Lynne Higa <lynnehig@hawaii.edu> wrote:

Aloha Max and April,

What do we need to do to establish a concentration code for this newly approved track within the BS Math degree?

The current codes are:

Mathematics - BS (General)	MATH-BS
Mathematics - BS (Data Science)	MATH -BS-DSCI

Lynne

From: Cynthia Tang <cntang@hawaii.edu>
Sent: Thursday, February 3, 2022 2:04 PM
To: Rufus Willett <rwillett@hawaii.edu>
Cc: Aloysius Helminck <helminck@hawaii.edu>; Alison R Sherwood <asherwoo@hawaii.edu>; Lynne Higa <lynnehig@hawaii.edu>; Nikki Chun <nkchun@hawaii.edu>; Ryan Yamaguchi <ryamagu@hawaii.edu>; Diane Nakashima <dianena@hawaii.edu>; Joy N Nishida <jnishida@hawaii.edu>; Max Xiong <pxiong@hawaii.edu>; Lisa Imai <lisaakam@hawaii.edu>; Stephanie Kailiawa <stephk@hawaii.edu>; Grant Kim <grantkim@hawaii.edu>; Pearl Iboshi <iboshi@hawaii.edu>; David Mongold

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Thank you,

Cynthia

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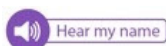
Rufus Willett
Professor and Chair, Mathematics
University of Hawai'i at Mānoa
Pronouns: he / him

--



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of HAWAII
MĀNOA

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