NEW OR REPLACE PROGRAM CODE

☐ **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) _____	_____	☐ See Banner form STVCOLL
Department	(4) _____	_____	☐ See Banner form STVDEPT
Degree/Certificate	(6) _____	_____	☐ See Banner form STVDEGC
Major	(4) _____	_____	☐ See Banner form STVMAJR
Concentration	(4) _____	_____	☐ See Banner form STVMAJR
Minor	(4) _____	_____	☐ See Banner form STVMAJR

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

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

_____

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

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

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

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

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

Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)?
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
See Special Program Designations Code Definitions on IRAO Program Code Request webpage   ☐ A   ☐ B   ☐ N   ☐ P   ☐ T   ☐ U

Required Terms of Enrollment: ☐ Fall   ☐ Spring   ☐ Summer   ☐ Extended

Form modified: Oct 20208

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code	_____	Program Description	_____
Institution	_____	Campus	_____
College	_____	Department	_____
Level	_____		

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

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

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

This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.

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

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

ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

☐ BOR Meeting Minutes & Supporting Documents　　　☐ Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

☐ Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

☐ Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

☐ BOR approved certificate. BOR Meeting/Approval Date: _____

☐ Chancellor approved within an authorized BOR program. BOR Program: _____

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

VERIFICATIONS

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

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

ADDITIONAL COMMENTS

UNIVERSITY of HAWAIʻI®
MĀNOA

MEMORANDUM   August 15, 2022

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

FROM: Nathan M. Murata
               Dean, College of Education

               Aloysius Helminck
               Dean, College of Natural Sciences

               Rufus Willett
               Chair, Department of Mathematics

SUBJECT: BACHELORS INTO POST BACCALAUREATE (BAP) – BA IN MATHEMATICS
INTO THE POST BACCALAUREATE CERTIFICATE IN TEACHER EDUCATION

SPECIFIC ACTION REQUESTED:
It is requested that the Interim Vice Provost for Academic Excellence approve a Bachelors into Post Baccalaureate (BAP) program between the College of Natural Sciences (CNS) and the College of Education (COE), for a Bachelor of Arts in Mathematics into the Post Baccalaureate Certificate in Teacher Education – Secondary Education – Mathematics.

REQUESTED EFFECTIVE TERM: Spring 2023

ADDITIONAL COST:
No additional costs involved.

PURPOSE:
The College of Natural Sciences (CNS) and the College of Education (COE) already have an approved BAP program between the BA Biology degree and the Post Baccalaureate Certificate in Teacher Education – Secondary Education-Science in the fifth year. Hence, this proposal **seeks to add another BAP,** the Bachelor of Arts in Mathematics (BA MATH). CNS and COE both support this BAP program and agree this is the most efficient option for candidates to complete a bachelor of arts in mathematics degree and acquire initial teacher licensure in science.

BACKGROUND:
From 1993 through 2017, mathematics has been listed as a federal teacher shortage area and a teacher shortage area in the state of Hawaii (USDOE, Office of Postsecondary Education, Teacher Shortage Areas, June 2017). From 2018 – present, the Hawaii State Legislature has provided funding, via the

Hawaii Department of Education, for UHM COE teacher candidates pursuing initial teacher licensure in mathematics, as well as in other shortage areas (Grow Our Own funding). The PBCTE-Secondary program candidates in mathematics have been eligible to receive this funding, in exchange for paying back three years of service as a mathematics teacher for the HIDOE. Many of these candidates are serving as emergency hire mathematics teachers or substitute teachers in the HIDOE while enrolled in the program. The addition of this BAP option will allow candidates to pursue initial licensure in mathematics in a timelier manner than completing a bachelor's degree and then applying to the PBCTE Secondary mathematics program, therefore, helping to address the teacher shortage.

CURRENT UNDERGRADUATE DEGREE PROGRAM IN MATHEMATICS
The undergraduate programs in Mathematics consist of the BA and BS degrees. The BA Mathematics was selected for this proposed program with COE because it has more than enough free electives to allow students to incorporate the required Education courses while still leaving ample flexibility for them to complete their Mathematics and General Education requirements on schedule.

CURRENT POST-BACCALAUREATE IN TEACHER EDUCATION SECONDARY:
The PBCTE-Secondary is an 18-month certificate program designed for students who have a BA or BS degree in an eligible content field, and wish to obtain initial basic teacher certification. To enroll, students must have completed an academic content major appropriate to their proposed teaching subject. The PBCTE-Secondary program consists of nine interrelated courses totaling 36 credits. Students who complete this initial teacher licensure program are encouraged to continue their professional growth. PBCTE-Secondary students may apply up to 12 course credits from the program to a COE master's degree program. Students must negotiate course transfer at the time of application to the master's program.

PROPOSED BA IN MATHEMATICS + PBCTE SECONDARY IN MATHEMATICS
This 132-credit proposed program is composed of the Bachelor of Arts in Mathematics (BA MATH) and the Post Baccalaureate Certificate in Teacher Education – Secondary in Mathematics (PBCTE MATH). This BAP proposal is the most affordable pathway for candidates to seek licensure. The tuition for both programs is at the undergraduate rate. A graduate initial licensure program exists in the COE, the Master of Education in Teaching degree; however, candidates would be charged a higher tuition rate to complete this master's program. Further, the degree plans for both the BA MATH and PBCTE MATH in this proposal allow for a seamless transition from Mathematics into the PBCTE MATH program. Candidates will complete 15 credits from the PBCTE MATH (EDEF 310, EDEP 311, ITE 401, ITE 402N, ITE 440) as electives in the BA MATH program. Nine of these credits (ITE 401, 402N, 440) will be double counted in both programs, and the other six credits (EDEF 310, EDEP 311) will be waived by the PBCTE MATH program These two courses are typically not cohorted in the PBCTE MATH program; candidates may take them at any time, either prior to or while enrolled in the program (see Five-Year Academic Plan attached). By waiving these six credits the total credits to be taken in the PBCTE MATH program will be reduced from 36 credits to 30 credits.

Further, having taken the nine double-counted credits in the BA program, the fifth year in the PBCTE MATH program will be reduced to 21 credits of additional tuition.

Additionally, this plan allows for a seamless transition from one program to another. The PBCTE MATH program is a cohorted, three semester program that begins every spring semester. This BAP proposal allows BA MATH candidates to take the required first semester PBCTE MATH courses in their final spring semester, and then complete the PBCTE MATH program the following year. Candidates completing this BAP program will be eligible to apply for initial teacher licensure in mathematics from the Hawaii Teacher Standards Board.

Admission Requirements: BAP applicants will have to meet the same admissions requirements as traditional PBCTE MATH applicants (with the exception of having completed a bachelor's degree at the time of admission). Candidates in the BA MATH program will be advised of this option when they enroll in the BA MATH program by the Department of Mathematics and College of Natural Sciences advisors (CNS Student Academic Success Center). Application deadline for the PBCTE MATH program is by October 1 of each year.

COLLEGE SUPPORT:
The College of Education Office of Student Academic Services (advising), and the Chair and faculty of the PBCTE MATH program all support this proposal. In the College of Natural Sciences, the Chair and faculty of the Department of Mathematics have voted to approve the proposal. The CNS Program & Curriculum Committee have also approved this request.

ACTION RECOMMENDED:
It is recommended that the Interim Vice Provost for Academic Excellence approve a Bachelors into Post-Baccalaureate (BAP) program between the College of Natural Sciences (CNS) and the College of Education (COE), for a Bachelor of Arts in Mathematics into the Post Baccalaureate Certificate in Teacher Education – Secondary in Mathematics.

ATTACHMENTS:
1.   BA MATH Program Sheet 2022-2023
2.   BA MATH Four-Year Academic Plan 2022-2023
3.   PBCT - Secondary Track Curriculum
4.   Five-Year Academic Plan CNS/COE

APPROVED/DISAPPROVED:

Nov 2, 2022

Laura E. Lyons   Date
Interim Vice Provost for Academic Excellence

University of Hawai'i at Mānoa
College of Natural Sciences Program Sheet 2022-2023
Bachelor of Arts (BA) in Mathematics
Admissions: Open   Process: Declaration
Min. Total Credits: 120 (77 in core & major + 43 in electives)

UHM General Education Core Requirements

Foundations

- ❑ FW ENG 100, 100A, 190, ESL 100, or AMST 111
- ❑ FQ* MATH 241 or 251A
- ❑ FG (A / B / C)
- ❑ FG (A / B / C)

Note: This requirement changed in Fall 2018. If you entered the UH System prior to that, please see your college/school advisor.

Diversification

- ❑ DA / DH / DL
- ❑ DA / DH / DL
- ❑ DB
- ❑ DP
- ❑ DY
- ❑ DS
- ❑ DS

* See degree, college and major requirements for courses that can also fulfill these.

UHM Graduation Requirements

Focus

- ❑ H
- ❑ E (300+)
- ❑ O (300+)

- ❑ W
- ❑ W
- ❑ W
- ❑ W (300+)
- ❑ W (300+)

Hawaiian / Second Language

- ❑ 101
- ❑ 102
- ❑ 201
- ❑ 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 *(Note: Other GPAs may be required.)*
- Good academic standing

College Requirements

Credit Maximums

- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship

This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements.
Meet regularly with your major advisor.

Major Requirements for BA in Mathematics

Admission: Open
Application: NA
Min. major credits: 26 (37 with related requirements)
Min. C grade (not C-) in courses

Requirements

Mathematics Prerequisites Requirements (11 credits)

- ❑ MATH 241*^{FQ} or 251A*^{FQ}
- ❑ MATH 242 or 252A
- ❑ MATH 243 or 253A

Mathematics Courses (26 credits)

- ❑ MATH 244 or 253A
- ❑ MATH 480 (CR/NC only) (Spring only, final year)

21 credits in MATH 300-479 courses:

- ❑ MATH 321
- ❑ MATH 331
- ❑ MATH 311 or 307
- ❑ _____
- ❑ _____
- ❑ _____
- ❑ _____

Additional Requirements

The following requirements must be fulfilled in regards to the **21 credits** (check completed):

- ❑ 3 credit hours in a writing-intensive mathematics course
- ❑ 6 credit hours in courses numbered above 400

Additional Mathematics Restrictions

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

Mandatory advising every semester prior to registration.

Notes

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; advising@math.hawaii.edu

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 2022-2023
College of Natural Sciences
Bachelor of Arts (BA) in Mathematics

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 400+**	3
FW	3	**MATH (311 or 307) or 321**	3	DA/DH/DL	3	**MATH 400+**	3
HSL 101	3	HSL 201	3	DS	3	Elective 300+	3
FG (A/B/C)	3	DB	3	Elective 300+	3	Elective 300+	3
Elective	1	DY	1	Elective 300+	3	Elective	3
		DS	3				
Credits	14	Credits	16	Credits	15	Credits	15
Spring		**Spring**		**Spring**		**Spring**	
MATH 242 or 252A	4	**MATH 244 or 253A**	3	**MATH 300+ or 400+**	3	**MATH 480**	2
FG (A/B/C)	3	**MATH (311 or 307) or 321**	3	**MATH 300+ or 400+**	3	Elective 300+	3
HSL 102	3	HSL 202	3	Elective 300+	3	Elective 300+	3
DA/DH/DL	3	DP	3	Elective 300+	3	Elective	3
Elective	3	Elective	3	Elective	3	Elective	3
Credits	16	Credits	15	Credits	15	Credits	14
Summer		**Summer**		**Summer**		**Summer**	
Credits	0	Credits	0	Credits	0	Credits	0
Total Credits	30	**Total Credits**	61	**Total Credits**	91	**Total Credits**	120

Notes:

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

45 upper division (300+ course) credits are required.

University of Hawaiʻi at Mānoa
College of Education Program Sheet 2021-22
Post-Baccalaureate Certificate in Secondary Education
Admissions: Selective   Process: Application
Min. Total Credits: 33 or 36 credits

College Requirements

Admission Requirements

- Spring admission only
- Submit an application to the College of Education no later than the following:
  - October 1 for spring semester (September 1 priority deadline)
  - Apply: https://makalei.coe.hawaii.edu
- Submit an application to the University of Hawaiʻi at Mānoa no later than the following:
  - October 1 for spring semester (September 1 priority deadline)
  - Apply: https://manoa.hawaii.edu/admissions/
    - Pay non-refundable $70 Application Fee
    - Submit official non-UH transcript(s) reflecting conferral of bachelor's degree and any graduate level coursework
- 2.75 cumulative and content major GPA; 2.50 cumulative and content major GPA for mathematics, health and physical education, and science content areas
- Content Knowledge Verification requirement as defined by the Hawaiʻi Teacher Standards Board
- 40 hours of documented current group leadership involvement with secondary-aged youth
- Personal admissions interview

Content Areas
Art, Dance, English Language Arts, Health and Physical Education, Mathematics, Music, Science, Social Studies, Theater, World Languages

Major Requirements

Minimum grade of C or better is required in all courses

Program (33 or 36 credits)

☐ EDEF 610	☐ EDEP 631	☐ ITE 401	☐ ITE 402N	☐ ITE 402 (alpha)	☐ ITE 404 (alpha)		☐ ITE 405 (alpha)
☐ ITE 406	☐ ITE 440	☐ SPED 445					

No other coursework can be taken during teaching residency

Additional courses may be required for those applying to Art, Music, Health and Physical Education, World Languages, and Social Studies

Required Graduation Grade Point Averages
- 2.75 cumulative and content major GPA or higher; 2.50 cumulative and content major GPA or higher for mathematics, health and physical education, and science content areas

This program sheet was prepared to provide information and does not constitute a contract. Meet regularly with your College of Education advisor to ensure you are on track with your requirements.

Notes

College of Education, Office of Student Academic Services: Everly 126; (808) 956-7915; osas@hawaii.edu; coe.hawaii.edu
Director: Denise Nakaoka; Everly 126; (808) 956-4274; nakaoka@hawaii.edu
Associate Director: Denise Abara; Everly 126; (808) 956-5192; dabara@hawaii.edu
Education Faculty Advisors: Alyssa Kapaona; Everly 126; (808) 956-4269; akapaona@hawaii.edu
Jolene Muneno; Everly 126; (808) 956-4268; jsmuneno@hawaii.edu

Puʻuhonua: Hale for Native Hawaiian Student Support, puuhonua@hawaii.edu
Puahia: First Year & Transfer Student Support, puahia@hawaii.edu
Tinalak: Filipino Student Support, tinalak@hawaii.edu

University of Hawaiʻi at Mānoa – Five-Year Academic Plan 202x-202x

College of Natural Sciences

Bachelor of Arts (BA) in Mathematics/Post-Baccalaureate Certificate in Teacher Education

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		Year 5	
Fall			**Fall**		**Fall**		**Fall**		**Fall**	
MATH 241 or 251A (FQ)	4		**MATH 243 or 253A**	3	**MATH 331**	3	Submit PBCTE application		**ITE 402H**	3
FW	3		**MATH (311 or 307) or 321**	3	DA/DH/DL	3	by October 1st		**ITE 404H**	3
HSL 101	3		HSL 201	3	Elective	3	**MATH 400+**	3	**SPED 445**	3
FG (A/B/C)	3		DB	3	**MATH 300+ or 400+**	3	Elective 300+	3		
Elective	1		DY	1	Elective 300+	3	Elective	3		
			Elective	3			**EDEF 310 (DS)**	3		
							EDEP 311 (DS)	3		
Credits	14		**Credits**	16	**Credits**	15	**Credits**	15	**Credits**	9
Spring			**Spring**		**Spring**		**Spring**		**Spring**	
MATH 242 or 252A	4		**MATH 244 or 253A**	3	**MATH 300+ or 400+**	3	**MATH 480**	2	**ITE 405H**	9
FG (A/B/C)	3		**MATH (311 or 307) or 321**	3	**MATH 400+**	3	Elective	3	**ITE 406**	3
HSL 102	3		HSL 202	3	Elective 300+	3	**ITE 401**	3		
DA/DH/DL	3		DP	3	Elective 300+	3	**ITE 402N**	3		
Elective	3		Elective	3	Elective	3	**ITE 440**	3		
							BA degree projected			
Credits	16		**Credits**	15	**Credits**	15	**Credits**	14	**Credits**	12
Summer			**Summer**		**Summer**		**Summer**			
Credits	0		**Credits**	0	**Credits**	0	**Credits**	0		
Total Credits	30		**Total Credits**	61	**Total Credits**	91	**Total Credits**	120		

Notes:

Students must take placement exams to be able to register for MATH 241. Students must see a Mathematics advisor prior to registration to discuss their academic plan options. Students must incorporate all focus requirements into this plan. Focus designations (i.e., W, E, O, H) are CRN specific & semester specific. ___ upper division (300+ course) credits are required.

EDEF 310 (3) and EDEP 311 (3) taken in the BA Math program will be waived in PBCTE program. ITE 401, 402N, and 440 double count to both programs. Advising for the BA will be conducted by CNS; advising for PBCTE will be conducted by COE.