☒ **New Program Code**   ☐ **Modify Program Code**   Date: 3/16/2018

REQUESTOR CONTACT INFORMATION

Name	Kathlen Lee	Campus	Kaua'i CC
Title	Educational Specialist	Email	kathlen@hawaii.edu
Office/Dept	Academic Affairs	Phone	(808) 245-8204

NEW PROGRAM CODE TO CREATE

Institution	KAU - Kauai Community College	Campus	KAU - Kauai Community College
Level	UG - Undergraduate	Effective Term	Fall 2018

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) IN	Instructional	☐ See Banner form STVCOLL
Department	(4) LBRT	Liberal Arts	☐ See Banner form STVDEPT
Degree/Certificate	(6) ASC	Academic Subject Certificate	☐ See Banner form STVDEGC
Major	(4) LBRT	Liberal Arts	☐ See Banner form STVMAJR
Concentration	(4) MATH	Mathematics	☐ 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.

1-2 years

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

IRAO USE ONLY: DATE RECEIVED

ADDITIONAL COMMENTS

Requesting to add a new Academic Subject Certificate in Mathematics.

ATTACHMENTS

BOR Approved: Sole-credential Certificates, Associate (excluding ATS), 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:**
Kailana Soto	Jeff Anderson	Suzette Robinson
Signature _____ 3/19/18 Date	Signature _____ Date	Signature _____ 4/4/18 Date

UNIVERSITY of HAWAI'I
KAUA'I
COMMUNITY COLLEGE

March 16, 2018

MEMORANDUM

TO: Donald Straney
Vice President for Academic Planning and Policy

VIA: James R. Dire
Vice Chancellor for Academic Affairs

FROM: Helen A. Cox
Chancellor

SUBJECT: Curriculum Approval

I have approved the following on 3/1/2018 and 3/2/2018 effective Fall 2018.

New program
Liberal Arts:
Academic Subject Certificate (A.S.C) – Mathematics

Program termination
Massage Therapy:
Certificate of Competence (C.O.) – Massage Therapy

Business Technology:
Certificate of Competence (C.O.) – Medical Office Receptionist

Hospitality and Tourism:
Certificate of Competence (C.O.) – Hospitality Sales and Marketing

kl

Enclosures

c   Division Chairs

1.   **Type of Program Action:**   ☒ New

PROPOSED	ASC Mathematics
Required: At least one course from the following MATH 103 (3 cr) MATH 140x (4 cr) MATH 241 (4 cr) MATH 242 (4 cr) MATH 243 (3 cr) MATH 244 (3 cr)	3 - 4
Electives: MATH 100 (3 cr) MATH 111 (3 cr) MATH 112 (3 cr) MATH 115 (3 cr) MATH 103 (3 cr) MATH 140x (4 cr) MATH 241 (4 cr) MATH 242 (4 cr) MATH 243 (3 cr) MATH 244 (3 cr)	9 - 11
Total Credits	**12 – 15**

2.   **Program Type:**

☐ Associate in Applied Science (AAS)
☐ Associate in Arts (AA)
☐ Associate in Arts–Concentration
☐ Associate in Science (AS)
☐ Associate in Science Natural Sciences–Concentration (ASNS)

☐ Certificate of Achievement (CA)
☐ Certificate of Competence (CO)
☒ Academic Subject Certificate (ASC)

3.   **Program Title:** Mathematics

4.   **Program Description (for catalog):**

The Mathematics ASC is designed for students interested in studying additional math, beyond what is required for their current degree program. Students in this program may opt for a broad study of math, taking a variety of 100-level courses such as Survey of Mathematics, Math for Elementary Teachers, or Statistics and College Algebra. This pathway offers students an opportunity to explore multiple areas of mathematics that will help them develop critical reasoning and quantitative skills to better understand the world around them.

Other students in this program may wish to pursue a path that will prepare them for further study in STEM fields, such as, but not limited to, Engineering, Computer Science, or Biology. These students may choose to take courses including College Algebra, Precalculus, as well as Calculus I, II, III, and IV. Taking these courses prior to transfer will allow students to fulfill STEM program prerequisite requirements as well as provide students an opportunity to learn higher level math in an environment with low class size and the support of dedicated teaching faculty.

Program Admission Requirements:
Admitted to Kauai Community College

To meet graduation requirements, all programs require a cumulative GPA of 2.0 or higher for all courses applicable toward the certificate or degree. Include any additional graduation requirements: None.

5. **List Program Student Learning Outcomes** that were approved by the Assessment Committee on 11/11/2017.

    1. Apply abstract and quantitative reasoning skills to solve mathematical problems.
    2. Communicate mathematical concepts coherently, clearly, and precisely in various ways such as symbolically, graphically, numerically or verbally.

6. **Proposed Date of First Offering:** Fall 2018

7. **Is this program offered at another UH campus?** ☐ Yes   ☒ No
   If **Yes,** specify campus. If **No,** why is this program offered at KCC:
     See #8 for reason.

8. **Reason for this Program Action:**

   The increased number of students interested in pursuing STEM degrees and increased enrollment in the Early College program have created a population of students taking 12 or more credits of mathematics to transfer to 4-year schools. Additionally, students undecided about future degree plans often show interest in math, but further study in math is not pursued because it is not required by their current degree program, leading to financial aid and advising conflicts. This certificate will award students who complete a broader (see Non-STEM and Mixed sequences below) or more in-depth (see Calculus-ready or PreCalculus ready sequences below) study of mathematics than is typically required of liberal arts students. As a result, interested students can opt to take additional math courses to earn elective credits for their degree program while satisfying program requirements.

9. **Board of Regents Approval Needed:** ☐ Yes   ☒ No

10. **Indicate the number of semesters required to complete each certificate and degree.**

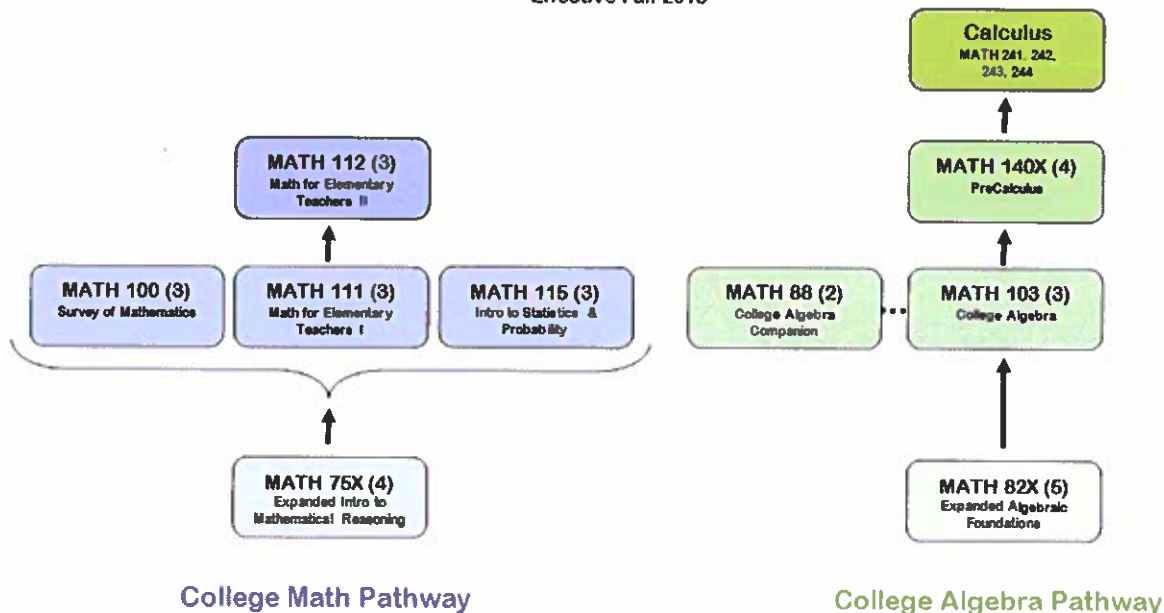| Certificate/Degree	Number of Semesters
ASC Math	2-4

11. **Program Course Sequencing:** The required 3-4 credits and 9-11 elective credits can be met in any sequence allowed under the current prerequisite rules. Students can pursue the Calculus pathway in depth, add an exploration of non-STEM math to their STEM sequence for breadth, or explore broadly in the non-STEM realm and round out their skills with a solid foundation in algebra/functions. Some possible paths:

Possibility 1 – STEM College-Ready sequence: Math 103, 140X, 241, 242
Possibility 2 – Calculus ready sequence: Math 241, 242, 243, 244
Possibility 3 – Non-STEM exploration sequence: Math 100, 115, 103, and 140X
Possibility 4 – Elementary Educator Specialization: Math 111, 112, 103, and 100/115

For reference, the current Math Pathways are included below.

Kaua'i CC Math Pathways
Effective Fall 2018

College Math Pathway

College Algebra Pathway

> Students who pass Math 75X may take Math 103 along with Math 88. However, Math 82X is the preferred preparatory course.

> Students who pass Math 82X may take any of Math 100, 111, or 115. However, Math 75X is the preferred preparatory course.

> Students who pass Math 82X may take Math 103 alone or concurrently with Math 88. These students should seek advice from their instructor.

PROGRAM ACTION REQUEST APPROVAL

PROGRAM: Mathematics Academic Subject Certificate

Effective date: Fall 2018

PSLOs Approved by: _____   17 Nov '17
                    Assessment Committee Chairperson   Date

Proposed by: _____   11/20/17
                    Originator   Date

Requested by: _____   11/20/17
                    Department/Division Chairperson   Date

Approved by: _____   2/20/18
                    Curriculum Committee Chairperson   Date

                _____   3/1/18
                    Vice Chancellor for Academic Affairs   Date

                _____   3/2/18
                    Chancellor   Date