University of Hawai'i
Code Request Form for Academic Programs

NEW OR MODIFY PROGRAM CODE

Form #CR-AP1
Modified October 2019

☒ **New Program Code** ☐ **Modify Program Code** Date: 1/23/2020

REQUESTOR CONTACT INFORMATION

Name	Shelby Wong	Campus	Hilo, UH
Title	Curriculum, Catalog, Grad Div Spec.	Email	shelbyw@hawaii.edu
Office/Dept	OVCAA	Phone	932-7927

NEW PROGRAM CODE TO CREATE

Institution	HIL - University of Hawaii at Hilo	Campus	HIL - University of Hawaii at Hilo
Level	UG - Undergraduate	Effective Term	Fall 2020

	Code (Max. Characters)		Description	Check if requesting new code:
College	(2)	AG	Agriculture, Forestry, Nat Res	☐ See Banner form STVCOLL
Department	(4)			☐ See Banner form STVDEPT
Degree/Certificate	(6)	BS	Bachelor of Science	☐ See Banner form STVDEGC
Major	(4)	AG4	Agriculture	☐ See Banner form STVMAJR
Concentration	(4)	TAG	Tropical Agroecology	☒ 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:

If new major, please list the BOR's approved Classification of Instructional Programs (CIP) 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)? ☐ Yes ☒ No

See http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html

Program Length
In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication. 4 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

NEW OR MODIFY PROGRAM CODE

ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/ off the online application, the recruitment/admission term, and the general student/history/ degree term.)

New program concentration on the BS-AG4. The Tropical Agroecology concentration replaces both the Tropical Plant Science & Agroecology (TPSA) concentration and the Tropical Horticulture (THO) concentration.

☐ Need to submit Stop out for TPSA & THO

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:**
Chelsea Kay-Wong	Sherrie Padilla	Tammi Oyadomari-Chun
Signature 2/28/2020 Date	Signature 3/3/20 Date	Signature Date

Form modified: Oct 2019

Office of the Vice Chancellor for Academic Affairs

UNIVERSITY of HAWAI'I® HILO

2020 JAN 30 PM 2:13

UH-HILO
CHANCELLOR'S OFFICE

January 30, 2020

MEMORANDUM

TO: Bonnie Irwin
Chancellor
University of Hawai`i at Hilo

FROM: Ken Hon
Interim Vice Chancellor for Academic Affairs
University of Hawai`i at Hilo

SUBJECT: Request for Approval of New Program Codes for use at UH Hilo

SPECIFIC ACTION REQUESTED:

We request that the following new program codes be approved for use. The below are either modifications to existing Bachelor degree programs or new Subject Certificates approved for Fall 2020 via the campus curriculum review process.

Program Modifications for Bachelor Degrees:

BS-AG4-ANHM Bachelor of Science
Agriculture
Animal Health and Management Concentration
College of Agriculture, Forestry and Natural Resource Mgmt.
*CAFNRM is combining the current two Animal Science concentrations into one revised concentration.

BS-AG4-TAG Bachelor of Science
Agriculture
Tropical Agroecology Concentration
College of Agriculture, Forestry and Natural Resource Mgmt.
*CAFNRM is combining the current Tropical Plant Science and Agroecology and Tropical Horticulture concentrations into concentration.

BBA-GBUS-AECO Bachelor of Business Administration
General Business
Applied Economics Concentration
College of Business and Economics
*The current Economics concentration is being renamed to Applied Economics to better reflect content.

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Hilo, Hawai'i 96720-4091
Telephone: (808) 932-7332
Fax: (808) 932-7338
hilo.hawaii.edu/uhh/vcaa

BA-HIST-HAP	Bachelor of Arts History Hawai'i and the Pacific Concentration College of Arts and Sciences

*History is combining its current Hawai'i and Pacific History concentrations to a combined concentration.

BA-KES-AKES	Bachelor of Arts Kinesiology and Exercise Science Applied Kinesiology and Exercise Science Concentration College of Natural and Health Sciences
BA-KES-AHLT	Bachelor of Arts Kinesiology and Exercise Science Allied Health Concentration College of Natural and Health Sciences

*KES is revamping program curriculum and is renaming two of its existing concentrations to better reflect content.

New Subject Certificates under a BOR approved degree program:

SC-ART-DMA	Digital Media Art Home Program: BA- Art
SC-JPST-JPT	Japanese Language Teaching Home Program: BA- Japanese Studies
SC-KES-IPH	Indigenous Public Health Home Program: BA- Kinesiology and Exercise Science

RECOMMENDED EFFECTIVE DATE:

We request the effective date of Fall 2020.

ADDITIONAL COST:

There is no additional cost associated with this request.

PURPOSE:

The purpose of this request is to request approval for new program codes from the UH System Institutional Research, Analysis and Planning (IRAPO) office for the above-mentioned degree programs and subject certificates.

ACTION RECOMMENDED:

We recommend that you approve the new program codes for use for the above-mentioned degree and certificate programs.

APPROVED/DISAPPROVED:

Bonnie Irwin, Chancellor

1·31·20
Date

KH:sw

Cc: Donald Straney, Vice President for Academic Planning & Policy
Chelsea Kay-Wong, University Registrar and Interim Director of Admissions

BS-AG4-TPSA
Agriculture, BS: Tropical Agroecology Specialty

Approved | Fall 2020

Proposal Information

Status
Active

Workflow Status

Proposer

- ✔ Shelby Wong (Creator)
- ✔ **Norman Arancon (Submitter)**
  Submitted 9-26-2019

(Curriculum Coordinator) \\ Curriculum Coordinator

- ✔ **Shelby Wong**
  Approved 10-3-2019

Curriculum Office and Registrar Reviewed

- – Cheri Kelii-Marumoto

Department (Agriculture- CAFNRM) \\ Department Chair

College (CAFNRM) \\ College Curriculum Review Committee Chair

- ✔ **Kevin D Hopkins**
  Approved 10-7-2019

College (CAFNRM) \\ Senate Chair

- ✔ **Lorna Tsutsumi**
  Approved 10-7-2019

College (CAFNRM) \\ Associate Dean

College (CAFNRM) \\ Dean

- ✔ **Bruce Mathews**
  Approved 10-7-2019

(CCRC) \\ CCRC Chair

✔ **Alexander Nagurney**

Approved 10-9-2019

(VCAA) \\ VCAA

✔ **Kenneth Hon**

Approved 12-11-2019

(Curr Coord Final) \\ Curriculum Coordinator

✔ **Shelby Wong**

Approved 1-10-2020

Printed and Included in Binder

- VCAA Student Assistant
- Cheri Kelii-Marumoto

Changes

- 1.2) Program Description
- 1.3) Program Catalog Description
- Program Title
- Start Date
- End Term

Show All

Proposed

Program Title

Agriculture, BS: Tropical Agroecology Specialty

Existing

Program Title

Agriculture, BS: Tropical Plant Science and Agroecology Speciality

Admin Use Only

Code

BS-AG4-TPSA

P) Proposal Details

P.1) This is a proposal for:

Modification of an existing undergraduate or graduate program, degree, minor, or certificate

P.2) Proposal Summary

The Tropical Agroecology Specialty is a merger between the two existing specialties in the BSA prorgram: Tropical Science and Agroecology and Tropical Horticulture. Some of the existing courses are merge into once course to expand the scope of such courses while eliminating redundancies between them.

P.3) Proposal Rationale/Justification

Most merges are made in courses that are production oriented. New courses are introduced in required agricultural sciences to present a more holistic breadth of acgroecology and minimize deficiencies in areas such as bioeconomy, waste management and irrigation. Other new courses are offered as electives to expand student choices in more focused areas. The changes will not impact other programs at the university since prerequisites from other programs remain the same.

P.4) Related Course(s)

Hort 352 Orchard and Horticultural Field Crops (modified) Proposal submitted
AGEN 440 Irrigation and Fertigation (new) Proposal submitted
AGEC 360 Tropical Bioeconomy (new) Proposal submitted
PPTH 404 Tropical Plant Pathology (modified) Proposal submitted
AG 405 Agricultural Biotechnology (modified) Proposal submitted
AGEN 345 Waste Management and Recycling (new) Proposal submitted
HORT 274 Nematology (new) Proposal submitted
HORT 353 Organic Crop Production (new) Proposal submitted
AG 205 Value Added Ag Products and Postharvest Handling (modified) Proposal submitted
AG 203 Ag Biotechnology for Educators (modified) Proposal submitted
HORT 263 Hydroponics and Vegetable Crop Production (modified) Proposal submitted

P.5) Course(s) from Other Departments

No

P.6) Proposal Impact(s) - Resources

The changes in the program will not require additional staff, equipment or facilities.

P.7) Department Vote

		DATE	APPROVE	NOT APPROVE	ABSTAIN
DEPT VOTE		2019/09/20	6	0	0

P.8) Proposal Supporting Documents

P.9) Proposer Notes

CCRC Vote: 10/31/19 6-0-1

1) Program Information

1.1) Degree Type

Bachelor of Science

Proposed

1.2) Program Description

The undergraduate Tropical Agroecology specialization is designed to provide an opportunity for students interested in tropical crop science or a plant-related field to have access to selected courses or topics in their area of interest. The curriculum is structured to offer a well-rounded undergraduate education emphasizing the long-term sustainability of our managed crop production systems and the surrounding ecosystems. The tropical Agroecology student learns to manage a wide variety of plant production challenges. Since production constraints in the tropics come from many sources, this curriculum draws its core courses from the areas of Plant Physiology, Plant Pathology, Horticulture, Soil Science, Weed Science, Entomology, Agribusiness, Agricultural Economics, Biotechnology, Bioeconomy and Agricultural Engineering. Graduates in Tropical Agroecology can obtain employment with private enterprises or government agencies concerned with conservation and environmental protection, crop production, plant pest control, plant ecology, laboratories specializing in plant and soil analyses, and farm services/agribusiness. Other graduates may elect to start their own enterprises or proceed to graduate school for advanced degrees.

Existing

1.2) Program Description

The undergraduate Tropical Plant Science & Agroecology (TPSA) specialization is designed to provide an opportunity for students interested in tropical crop science or a plant-related field to have access to selected courses or topics in their area of interest. The curriculum is structured to offer a well-rounded undergraduate education emphasizing the long-term sustainability of our managed crop production systems and the surrounding ecosystems. The TPSA student learns to manage a wide variety of plant production challenges. Since production constraints in the tropics come from many sources, this curriculum draws its core courses from the areas of Plant Physiology, Plant Pathology, Horticulture, Soil Science, Weed Science, Entomology, Agribusiness, and Agricultural Economics. Graduates in TPSA can obtain employment with private enterprises or government agencies concerned with conservation and environmental protection, crop production, plant pest control, plant ecology, laboratories specializing in plant and soil analyses, and farm services/agribusiness. Other graduates may elect to start their own enterprises or proceed to graduate school for advanced degrees.

Proposed

1.3) Program Catalog Description

Group 2. Major Requirements (84-86 credits)

1. Agriscience Requirements (70)

- AG 200 Agro-Environmental Science Com (3)
- AG 230 Sustainable Agriculture (3)
- AG 291 Directed Work Experience Pgm (3)
- AG 375 Intro To Genetic Analysis (3)
- AG 496 Senior Seminar in Agriculture (1)
- ~~AGBU 110 Microcomputing for Ag (3)~~
- AGBU 320 Agribus Management (3) **or** AGEC 330 Farm Management (3)
- AGEC 201 Agri Economics (3) **or** ECON 130 Intro To Microeconomics (3)
- ~~AGEN 231 Intro To Ag Mech (3)~~
- ANSC 141 Intro To An Science (3)
- ENTO 304 General Entomology (3)
- HORT 262 Princ Of Hort (3)
- ~~HORT 264 Plant Propagation (3)~~
- HORT 481 Weed Science (3)
- PPHY 310 Plant Growth/Develop (3)
- PPTH ~~301~~ 404 Trop Plant Pathology (3)
- SOIL 304 Tropical Soils (3)
- Hort 352 or Agron 310 Orchard and Horticultural Crops OR Agronomic Crop Prod Tropics (3)
- AGEN 440 Irrigation and Fertigation (3)
- NRES 430 GIS Application (3)
- AG 304 Applied Microbiology (3)
- AGEC 360 Tropical Bioeconomy (3)
-
- Select 2 Other Agriculture/AGEN/NRES Courses: Total of 6 credits
- Ag 405 Agricultural Biotechnology
- Ag 403 Agricultural Biotechnology for Educators
- Hort 353 Organic Crop Production

2. **Supplemental Requirements (14-16)**

- BIOL 171-171L Introductory Biology I (3), Introductory Biology I Lab (1)
- Chemistry (Choose **one sequence** of the following three sequences) (7-8):

1. *Sequence 1:* CHEM 151-151L Elementary Survey of Chemistry (3), Elementary Survey of Chem Lab (1) **and**CHEM 141 Surv Organ Chem & Biochem (3)
2. *Sequence 2:* CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1) **and** CHEM 162-162L General Chemistry II (3), General Chemistry II Lab (1)
3. *Sequence 3:* CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1) **and** CHEM 141 Surv Organ Chem & Biochem (3)

- One MATH Course numbered 115, 125, 135 or higher (3-4)

Group 3. Electives (9 Credits)

Select three courses for a total of 9 credits from the list below:

AG 405 Agricultural Biotechnology (modified) Proposal submitted

HORT 274 Nematology (new) Proposal submitted

HORT 353 Organic Crop Production (new) Proposal submitted

AG 205 Value Added Ag Products and Postharvest Handling (modified) Proposal submitted
AG 403 Ag Biotechnology for Educators (modified) Proposal submitted
HORT 263 Hydroponics and Vegetable Crop Production (modified) Proposal submitted

Total Semester Hours Required for the B.S. in Agriculture: Tropical Agroecology Specialty
123 credits required.

Existing

1.3) Program Catalog Description

Group 2. Major Requirements (84-86 credits)

1. Agriscience Requirements (70)

- AG 200 Agro-Environmental Science Com (3)
- AG 230 Sustainable Agriculture (3)
- AG 291 Directed Work Experience Pgm (3)
- AG 375 Intro To Genetic Analysis (3)
- AG 496 Senior Seminar in Agriculture (1)
- AGBU 110 Microcomputing for Ag (3)
- AGBU 320 Agribus Management (3) **or** AGEC 330 Farm Management (3)
- AGEC 201 Agri Economics (3) **or** ECON 130 Intro To Microeconomics (3)
- AGEN 231 Intro To Ag Mech (3)
- ANSC 141 Intro To An Science (3)
- ENTO 304 General Entomology (3)
- HORT 262 Princ Of Hort (3)
- HORT 264 Plant Propagation (3)
- HORT 481 Weed Science (3)
- PPHY 310 Plant Growth/Develop (3)
- PPTH 301 Trop Plant Pathology (3)
- SOIL 304 Tropical Soils (3)
- Select 7 Other Agriculture Courses: At least 12 credits must be 300- or 400-level (Upper Division). Total of 21 credits

2. **Supplemental Requirements (14-16)**

- BIOL 171-171L Introductory Biology I (3), Introductory Biology I Lab (1)
- Chemistry (Choose **one sequence** of the following three sequences) (7-8):

1. *Sequence 1:* CHEM 151-151L Elementary Survey of Chemistry (3), Elementary Survey of Chem Lab (1) **and**CHEM 141 Surv Organ Chem & Biochem (3)
2. *Sequence 2:* CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1) **and** CHEM 162-162L General Chemistry II (3), General Chemistry II Lab (1)
3. *Sequence 3:* CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1) **and** CHEM 141 Surv Organ Chem & Biochem (3)

- One MATH Course numbered ~~121~~ 115, 125, 135 or higher (3-4)

Group 3. Electives, To be determined
Elective hours will vary depending upon which GE courses are selected by the student.

Total Semester Hours Required for the B.S. in Agriculture: Tropical Plant Science and Agroecology Specialty
123 credits required.

1.4) College
CAFNRM

1.5) Department
Agriculture- CAFNRM

2) Program Requirements

2.1) Minimum Number of Credits
84-86 Required Credits

Proposed
2.2) Minimum GPA
2.0

Existing
2.2) Minimum GPA

Proposed
2.3) Minimum Acceptable Grade
1.0

Existing
2.3) Minimum Acceptable Grade

2.4) Program Notes

3) Attachments

Proposed

- Agroecology CURRICULUM Revised Sep 26, 2019.rtf

Existing