## University of Hawai'i **Code Request Form for Academic Programs**

## **NEW OR MODIFY PROGRAM CODE**

Form #CR-AP1 Modified October 2019

⊠ New	Progran	m Code		Modify P	rogram C	ode	Dat	e: 1/23/20	020	
REQUESTOR	CONTA	CT INFOR	MATIO	N						
	Shelby W			•	Campus	Hilo	, UH			
-			. Grad D	iv Spec.	Email		byw@hawaii.	edu		
-	Title Curriculum, Catalog, Grad Div Spec.  Office/Dept OVCAA			Phone	etrosotros (carcosotros)					
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Level _	o one	Code		-		Term				
		(Max. Characte	rs)	Des	cription		Check i	f requestin	g new c	ode:
College	(2)	AG	Ag	riculture, For	estry, Nat F	Res	☐ See	Banner forr	n STVCC	OLL
Department	(4)						See	Banner forr	n STVDE	PT
Degree/Certifi	cate (6)	BS	Ва	chelor of Sci	ence		☐ See	Banner forr	n STVDE	EGC
Major	(4)	AG4	Ag	riculture			See	Banner forr	n STVM	AJR
Concentration	Concentration (4) ANHM Animal Hea			imal Health 8	& Management See Banner form STVM				AJR	
Minor	(4)						See	Banner form	m STVM	AJR
If a similar ma	jor/concer	itration code	exists in	Banner, please	list the code	:				
If new major, Is this major/c Should this pro	oncentrati	ion code bei	ng used th	ne same way at	the other UI	H camp		Yes	X	No No
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Is 50% or grea Campus?	ter of the	classes in thi	s program	offered at a lo	ocation other	than t	he Home	Yes	X	No
Is this program	n/major/ce	ertificate fina	ancial aid	eligible?			>	Yes		No
Does this cert program)?  See http://www.ifap				yment Progran	n (Title IV-eli	gible c	ertificate	Yes	X	No
Program Leng In academic years; any online and/or y	decimals are		ength of the p	rogram should mate	h what is publishe	d by the c	campus in	<b>YEARS</b>		
Special Progra See Special Progra Program Code Req	m Designation	ns Code Definition	ns on IRAO	A	В	X	N 🔲 P	Т		] U
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				Page 1	of 2	1	_ 1			

#### **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 Animal Health & Management Concentration will replace the Animal Science PreVet (VET) and Animal Science Livestock Production (ANS) concentrations.

I Need to Submit Stop out forms for VET & ANS

ATTACHMENTS					
BOR Approved: Sole-oredential certificates	redential Certific	ates, Associate (exclu	ding ATS), Bachelor	and Graduate Degrees, an	id sole
BOR Meeting Min	utes & Supporting	g Documents	Cur	riculum	
Chancellor Approved	Concentrations,	Certificates and Asso	ciate in Technical St	udies (ATS) Degree	
<ul><li>✓ Memo from Chan</li><li>✓ Curriculum</li></ul>	cellor to notify Vi	ce President for Acad	emic Planning and F	olicy regarding program a	ction.
BOR approved of Chancellor approx	ertificate. BOR M oved within an au	e (1) statement. This leeting/Approval Date ithorized BOR programments with UHCCP 5.2	e: m. BOR Program:		
VERIFICATIONS  By signing below, I ve	erify that I have r	eviewed and confirm	the above informat	tion that is pertinent to m	y position.
Registrar (Print Name)		Financial Aid Offic (Print Name)	cer	For Community Colleg verification of consult	
Chelsea Ka	ıy-Wong	Sherrie F	Padilla	OVPCC Academic Affa Tammi Oyadomari-Ch	
	28/2020	Stewith	3/3/20	6	Date
Signature 🔾	Date	Signature	' 'Date	Signature	Date



2020 JAN 30 PM 2: 13

CHANCE 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.

200 W. Kāwili St. Hilo, Hawai'i 96720-4091 Telephone: (808) 932-7332

Fax: (808) 932-7338 hilo.hawaii.edu/uhh/vcaa

An Equal Opportunity/Affirmative Action Institution

**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 abovementioned degree programs and subject certificates.

## **ACTION RECOMMENDED:**

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

APPROVED DISAPPROVED:

Bonnie Irwin, Chancellor

Date

KH:sw

Cc: Donald Straney, Vice President for Academic Planning & Policy

Chelsea Kay-Wong, University Registrar and Interim Director of Admissions

# Code Agriculture, BS: Animal Health and Management Specialty

Approved | Fall 2020

# **Proposal Information**

Work	flow Status
Prop∈ <b>✓</b>	oser Lissa Tsutsumi (Submitter) Submitted 10-1-2019
<b>✓</b> Curri	Shelby Wong Approved 10-3-2019 culum Office and Registrar Reviewed Cheri Kelii-Marumoto
	artment (Agriculture- CAFNRM) \\ Department Chair
Colle	ege (CAFNRM) \\ College Curriculum Review Committee Chair Kevin D Hopkins Approved 10-7-2019
Colle	ege (CAFNRM) \\ Senate Chair Lorna Tsutsumi Approved 10-7-2019
Colle	ege (CAFNRM) \\ Associate Dean
Colle	ege (CAFNRM) \\ Dean Bruce Mathews Approved 10-7-2019
(CCI	RC) \\ CCRC Chair Alexander Nagurney

Approved 10-9-2019

#### (VCAA) II 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

#### **Program Title**

Agriculture, BS: Animal Health and Management Specialty

## **Admin Use Only**

Code

## 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

Previously, Agriculture, BS: Animal Science had two separate specialties - Pre-Vet and Livestock Production. The proposed changes are to merge the two specialty tracks into one under the name Animal Health and Management.

#### P.3) Proposal Rationale/Justification

The changes will not impact the curriculum or students. This change is being proposed as the enrollment numbers for the animal science tracks are calculated separately, and indicates low enrollment in the livestock specialty track. The proposal will eliminate the low enrollment track, and all animal science students will be united for enrollment numbers. The curriculum has been closely considered to still meet the needs of both types of students (those wanting to go to graduate school and production students).

#### P.4) Related Course(s)

AG 230 Sustainable Agriculture (3)
AG 375 Intro To Genetic Analysis (3) or BIOL 376 Genetics (3)

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AG 496 Senior Seminar in Agriculture (1)
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AGBU 110 Microcomputing for Ag (3)

AGBU 320 Agribus Management (3)

AGEN 231 Intro To Ag Mech (3)

AGEC 330 Farm Management (3)

AGRN 310 Agronom Crop Prod Tropics (3)

AGRN 410 Soil-Plant Herbivore Interritn (3)

ANSC 141 Intro To An Science (3)

ANSC 223 Intro to Wildlife Sciences (3)

ANSC 254 Fundamentals of Nutrition (3)

ANSC 350 Anatomy/Physiol Of Farm Animal (3)

ANSC 351 Swine Production (3)

ANSC 353 Horse Production (3)

ANSC 357 Ruminant Production Systems (3)

ANSC 445 An Breeding/Genetics (3)

ANSC 450 Physiology Reproduction (3)

ANSC 453 Diseases and Parasites (3)

BIOL 171-171L Introductory Biology I (3), Introductory Biology I Lab (1)

BIOL 172-172L Introductory Biology II (3), Introductory Biology II Lab (1)

BIOL 275-275L Fund Microbiology (3), Microbiology Lab (1)

BIOL 280 Biostatistics (3)

BIOL 410 Biochemistry (3)

CHEM 141 Surv Organ Chem & Biochem

CHEM 151 Elementary Survey of Chemistry (3)

CHEM 151 Elementary Survey of Chemistry Lab (1)

CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1)\*

CHEM 162-162L General Chemistry II (3), General Chemistry II Lab (1)\*

CHEM 241-241L Organic Chem I (3), Organic Chem I Lab (1)

CHEM 242-242L Organic Chem II (3), Organic Chem II Lab (1)

ENG 225 Writng for Sci & Technology (3)

HORT 262 Princ Of Hort (3)

MATH (Choose one course from the following courses):

MATH 135 Precalc: Elementary Functions (3)

MATH 140 Precalc:Trig/Analytic Geometry (3)

MATH 140X Precalculus (4)

MATH 241 Calculus I (4)

MATH 242 Calculus II (4)

PHYS 151-151L College Physics I (3), College Physics I Lab (1)

PHYS 152-152L College Physics II (3), College Physics II Lab (1)

## P.5) Course(s) from Other Departments

Yes

#### Courses

#### P.6) Proposal Impact(s) - Resources

None.

#### 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

#### 1.2) Program Description

This track of study provides students with a variety of animal science courses related to health and management. In the final years of study, students will take courses aimed at making them qualified for their next academic or professional endeavors. For those who aspire to work on farms, ranches or in the livestock industry, additional agriculture business, general agriculture, and agricultural mechanics will be provided as curriculum options. These courses will prepare students for employment opportunities with farms, dairies, ranches, equestrian centers, experiment stations, quarantine stations, veterinary clinics and zoos. For those who aspire to apply to professional school (veterinary medicine) or a graduate program (M.S. or Ph.D.), curriculum options include courses that are pre-requisites for major veterinary schools such as additional biology and chemistry courses.

#### 1.3) Program Catalog Description

This track of study provides students with a variety of animal science courses related to health and management. In the final years of study, students will take courses aimed at making them qualified for their next academic or professional endeavors. For those who aspire to work on farms, ranches or in the livestock industry, additional agriculture business, general agriculture, and agricultural mechanics will be provided as curriculum options. These courses will prepare students for employment opportunities with farms, dairies, ranches, equestrian centers, experiment stations, quarantine stations, veterinary clinics and zoos. For those who aspire to apply to professional school (veterinary medicine) or a graduate program (M.S. or Ph.D.), curriculum options include courses that are pre-requisites for major veterinary schools such as additional biology and chemistry courses.

#### **Student Learning Outcomes**

- 1. Students will achieve a working knowledge of biology, chemistry, and mathematics as a foundation for further studies.
- Students will achieve a basic understanding in the different animal science disciplines and be able to apply this knowledge to effectively manage and care for livestock.
- 3. Students will have experiential learning opportunities with farm animals through routine hands-on laboratories held at the UH Hilo Agricultural Farm Laboratory. When available, field trips to local farms and ranches will also provide learning opportunities with farm animals. Students will gain hands-on experience with livestock to help enhance their competitiveness in future studies and careers.
- Students will use and refine their communication skills in various classes.
- 5. Students will develop and apply their computer skills to agricultural examples.

## Group 1. General Education Foundation, Diversification, Structural, and Integrative Requirements in effect Fall 2018

Students may choose to graduate under the General Education Foundation, Diversification, Structural and Integrative requirements and graduation requirements in force at the time they entered the UH System, when they entered UH Hilo, or when they graduate, provided there is no break in enrollment.

Students should meet with their academic advisor to ensure that they enroll in courses that will enable them to meet these requirements as well as requirements for the major and for graduation. Some courses may meet both General Education requirements and major requirements.

The new GE foundations, diversification, structural and integrative requirements and lists of certified courses are posted on the General Education website.

## Group 2. Major Requirements (74-86 credits)

#### Agriscience: (34 credits)

- AG 230 Sustainable Agriculture (3)
- AG 496 Senior Seminar in Agriculture (1)
- AGBU 110 Microcomputing for Ag (3)
- ANSC 141 Intro To An Science (3)
- ANSC 254 Fundamentals of Nutrition (3)
- ANSC 350 Anatomy/Physiol Of Farm Animal (3)
- ANSC 445 An Breeding/Genetics (3)
- ANSC 450 Physiology Reproduction (3)
- ANSC 453 Diseases and Parasites (3)
- Choose three courses from the following ANSC courses:
  - ANSC 223 Intro to Wildlife Sciences (3)
  - ANSC 351 Swine Production (3)
  - ANSC 353 Horse Production (3)
  - o ANSC 357 Ruminant Production Systems (3)

#### Supplemental Requirements: (28 -30)

- BIOL 171-171L Introductory Biology I (3), Introductory Biology I Lab (1)
- BIOL 172-172L Introductory Biology II (3), Introductory Biology II Lab (1)
- BIOL 275-275L Fund Microbiology (3), Microbiology Lab (1)
- BIOL 280 Biostatistics (3)
- CHEM 161-161L General Chemistry I (3), General Chemistry I Lab (1)\*
- CHEM 162-162L General Chemistry II (3), General Chemistry II Lab (1)\*
- ENG 225 Writing for Sci & Technology (3)
- MATH (Choose one course from the following courses):
  - o MATH 135 Precalc: Elementary Functions (3)
  - o MATH 140 Precalc:Trig/Analytic Geometry (3)
  - MATH 140X Precalculus (4)

- o MATH 241 Calculus I (4)
- o MATH 242 Calculus II (4)

#### Livestock Production (12) or Pre-Vet Sequences (22)

- Livestock Sequence
  - HORT 262 Princ Of Hort (3)
  - o AGEN 231 Intro To Ag Mech (3)
  - o AGRN 310 Agronom Crop Prod Tropics (3) or AGRN 410 Soil-Plant Herbivore Interrltn (3)
  - AGBU 320 Agribus Management (3) or AGEC 330 Farm Management (3)

\*CHEM 161-161L/CHEM 162-162L in supplemental requirements can be substituted with Chem 141/Chem 151-151L

- Pre-Vet Sequence
  - PHYS 151-151L College Physics I (3), College Physics I Lab (1)
  - PHYS 152-152L College Physics II (3), College Physics II Lab (1)
  - CHEM 241-241L Organic Chem I (3), Organic Chem I Lab (1)
  - o CHEM 242-242L Organic Chem II (3), Organic Chem II Lab (1)
  - AG 375 Intro To Genetic Analysis (3) or BIOL 376 Genetics (3)
  - BIOL 410 Biochemistry (3)

## Group 3. Electives, To be determined

Elective hours will vary depending upon which GE courses are selected by the student.

See your advisor for possible electives to help you qualify for pharmacy and medical programs.

# Total Semester Hours Required for the B.S. in Agriculture: Animal Science—Pre-Veterinary Specialty

123 credits required.

#### 1.4) College

**CAFNRM** 

#### 1.5) Department

Agriculture- CAFNRM

## 2) Program Requirements

#### 2.1) Minimum Number of Credits

123 credits required.

#### 2.2) Minimum GPA

2.0

#### 2.3) Minimum Acceptable Grade

1.0

## 2.4) Program Notes

See Attachments. In line paste will not keep formatting.

# 3) Attachments

- Animal Science Tracks New Alphabetical Order.docx
- Animal Health and Management Catalog.docx
- Animal Science Tracks New Curriculum \_9.26.docx