

**University of Hawaii Maui College
Curriculum Action Request (CAR) Form
Program/Degree/Certificate**

For Banner use:

Req:

Rcv:

___ Alpha ___

___ Program/name ___

___ Program Code ___

___ Concentration ___

___ Major Code ___

1. Author(s): Ann Emmsley

2. Department: STEM

Program: Agriculture and Natural Resources

3. Date submitted to Curriculum Committee: 10/14/11

4. Program proposal

☐ New program (attach program proposal and program map)
 ☐ Change of name to existing program

Existing program Title: Sustainable Tropical Crop Production

Proposed program Title:

5. Credential (degree or certificate) proposal

☐ New credential added to existing program
 ☒ Modification to existing credential

Type of credential

Degree: ☐ AA ☐ AS ☐ AASCertificate: ☐ CA ☒ CC ☐ CO ☐ ACS☐ Other, specify:

Existing credential: Title: Sustainable Tropical Crop Production

Credits: 15

Proposed credential: Title: Sustainable Tropical Crop Production

Credits: 17

If modification, describe change:

☐ Change in credential name
☒ Change in course requirement(s); specify: ;Deleting AG 290 (1). Adding two new courses as requirements: AG 103(2), AG 104 (1) as these are prerequisites for AG 251; The total number of credits for the CC degree changes from 15 to 17 credits.
☐ Change in prerequisite(s) for credential; specify:☐ Other; specify:
☒ Program map must be attached. (For modifications, write changes on copy of current catalog map.)

6. Reason for this curriculum action:

Modification to create a curriculum that better supports agriculture entrepreneurship to support the development of new farmers.

7. Proposed term of first offering: Fall semester of 2012 year.

8. Special fees required:

☒ no ☐ yes, explain:

9. Special resources (personnel, supplies, etc.) required:

☒ no ☐ yes, explain:

10. Special scheduling considerations:

☒ no ☐ yes, explain:

11. Which program SLOs does this certificate support? (list all that apply and explain, if necessary.)

☒ Program SLO 1: Use basic business principles to manage projects or design a horticultural business enterprise.

Explain: Provides more business and production experiences.

☒ Program SLO 2: Recommend cultural practices, solve problems, plan projects, and cultivate horticultural crops in a sustainable manner based on sound biological and technological principles.

Explain: More opportunity to plan and grow crops using various cultural practices.


☒ Program SLO 3: Explain the relationships between agroecosystems, economics, human culture, and natural environments.


Explain: New courses allow for greater examination of sustainability and the impacts of farming methods.

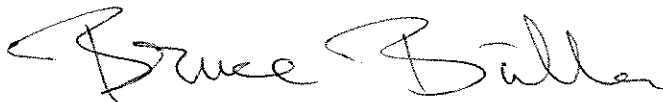
☐ 12. Current UHMC Catalog needs revision on page(s): 31

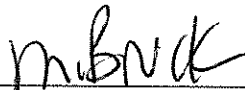
13. Additional Information: See attached spreadsheet for clarification.


University of Hawaii Maui College
Curriculum Action Request (CAR) Signature Page

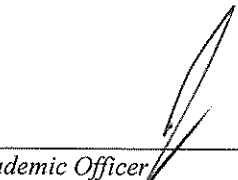
 10/14/11
Proposed by: Author or Program Coordinator Date

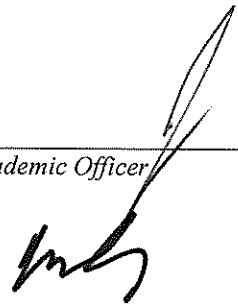
 10/17/11
Checked by: Academic Subject Area Representative to Curriculum Committee Date

 10/14/11
Requested by Department: Department Chair Date

 12-9-11
Recommended by: Curriculum Chair Date

 2-1-12
Approved by Academic Senate: Academic Senate Chair Date

 2-4-12
Endorsed by: Chief Academic Officer Date

 2/11/12
Approved by: Chancellor Date

Agriculture & Natural Resources provides instruction for those wishing training, retraining, or skills upgrading in the field of agriculture and those wishing to transfer to a four-year college or university. Diverse learning activities are provided at facilities on Maui and Molokai. The Maui facility includes a 10,700 sq. ft. greenhouse; two acres of turfgrass including a golf green, fairway, and rough; and a 1.5 acre vegetable field. The Molokai Farm includes a 5,000 sq. ft. greenhouse, orchards, and vegetable fields on 28 acres of land. Projections point to a continued need for well-trained people in all aspects of the green industry. Hotels and condominiums face increasing demand for personnel to design and maintain aesthetically pleasing landscapes. Golf course and recreational facilities require knowledgeable people to establish and maintain healthy turfgrass in an environmentally sound manner. Farms and plantations need informed individuals to implement new technologies and sustainable agriculture techniques. Numerous opportunities exist for entrepreneurs in vegetable, flower, and nursery crop production as well as landscape maintenance.

Students may transfer to other institutions after beginning their academic and technical training on Maui or Molokai. Agriculture courses have been articulated with the University of Hawai'i at Hilo; some courses are equivalent to the ones offered there, while others transfer as agriculture or general electives. Students can also meet agriculture program requirements at the University of Hawai'i at Mānoa, as well as mainland institutions.

☞ Contact the program coordinator, Ann Emmsley, at 984-3243, or by email at aemmsley@hawaii.edu for latest program schedule cycle.

Requirements for Certificates of Competence (CO):

Agricultural Science: 7 credits	Agriculture 122(3), 200(4)
GIS in Ecosystem Management: 8 credits	Geographic Information Systems/Information and Computer Science 150(4) Geographic Information Systems 180(4)
Nursery Production: 9 credits	Agriculture 230(3), 266(3), 269(3)
Pest Management: 9 credits	Agriculture 174(3), 201(3), 281(3)

Requirements for Certificates of Completion (CC):

Turfgrass Specialist: 23 credits	Sustainable Tropical Crop Production: 15 credits
Agriculture 122(3), 174(3), 233(2), 235(3), 260(3), 194v(3)	Agriculture 122(3), 174(3), 232(1), 235(3), 251(4), 290(1)
English 22, 100, or 106(3)	
Mathematics 18 or higher(3)	
<i>Additional courses to improve employability, but not required:</i>	
Agriculture 200(4), 201(3), 250(4), 269(3), 281(3)	Landscape Maintenance: 13 credits
	Agriculture 235(3), 250(4), 260(3), 269(3)

Requirements for Certificates of Achievement (CA):

Courses required for all four CA programs: 27 credits	
Agriculture 122(3), 174(3), 200(4), 201(3), 230(3), 235(3)	Automotive Technology 80(2)
BUSN 189, MATH 18 or higher(3)	English 22, 100, or 106(3)
Floriculture Management: 34 credits	Nursery Management: 34 credits
Agriculture 263(3), 269(3), 290(1)	Agriculture 266(3), 269(3), 290(1)
Horticulture & Landscape Maintenance: 40 credits	Sustainable Tropical Crop Management: 39 credits
Agriculture 250(4), 260(3), 269(3), 281(3)	Agriculture 232(1), 251(4), 263 or 266(3), 281(3), 290(1)

Requirements for Associate in Applied Science (AAS) Degree: 60 credits

Horticulture & Landscape Maintenance: 60 credits	Sustainable Tropical Crop Management: 60 credits
<i>All CA Horticulture & Landscape courses(40) plus:</i>	<i>All CA Horticulture & Landscape courses(39) plus:</i>
Electives(5) from AG Elective List below	Electives(6) from AG Elective List below
General Education(15) listed below	General Education(15) listed below
General Education required for both AAS programs: 16 credits	AG Elective List:
English 21, 22, 55, 100, 102, 104, 106, or COM 145(3)	Agriculture 92P(1), 92Q(1), 92R(1), 92S(1), 92T(1), 263(3), 264(3), 266(3), 290(1)
ICS 101 or BUSN 150(3)	<i>Tropical Crop options:</i> Agriculture 250(4), 260(3), 269(3)
Humanities elective(3)	<i>Horticulture options:</i> Agriculture 194v(1-3), 232(1), 233(2), 251(4)
Natural Science elective(3)	Trade/Natural Science appropriate to major, e.g., ACC 124
Social Science elective(3)	

CC in Sustainable Tropical Crop Production		CA in Sustainable Tropical Crop Management		AAS in Sustainable Tropical Crop Management	
11-12 catalog	Proposed	11-12 catalog	Proposed	11-12 catalog	Proposed
	AG 103(2) AG 104 (1)		AG 103(2) AG 104 (1)		AG 103(2) AG 104 (1)
AG 122 (3)	AG 122 (3)	AG 122 (3)	AG 122 (3)	AG 122 (3)	AG 122 (3)
AG 174 (3)	AG 174 (3)	AG 174 (3)	AG 174 (3)	AG 174 (3)	AG 174 (3)
AG 232 (1)	AG 235 (3)	AG 232 (1)	AG 232 (1)	AG 232 (1)	AG 232 (1)
AG 235 (3)	AG 232 (1)	AG 235 (3)	AG 235 (3)	AG 235 (3)	AG 235 (3)
AG 251 (4)	AG 251 (4)	AG 251 (4)	AG 251 (4)	AG 251 (4)	AG 251 (4)
AG 290 (1)		AG 290 (1)	AG 193V (1)	AG 290 (1)	AG 193V (1)
		AG 200 (4)	AG 200 (4)	AG 200 (4)	
15 cr	17 cr	AG 201(3)	AG 201(3)	AG 201(3)	AG 201(3)
		AG 230 (3)	AG 230 (3)	AG 230 (3)	AG 230 (3)
		AG 281 (3)	AG 281 (3)	AG 281 (3)	AG 281 (3)
		AG 263 or 266 (3)	AG 252 (2)	AG 263 or 266 (3)	AG 252 (2)
		AMT 80 (2)	AMT 80 (2)	AMT 80 (2)	AMT 80 (2)
		MATH 18 (3)	MATH 18 (3)	MATH 18 (3)	MATH 18 (3)
		ENG 22 (3)	ENG 22 (3)	ENG 22 (3)	ENG 22 (3)
				AG electives (6)	AG electives (9)
				ENG or COM (3)	ENG or COM (3)
		39 credits	41 credits	ICS 101 or BUSN 150(3)	ICS 101 or BUSN 150(3)
				Humanities (3)	Humanities (3)
				Social Science (3)	Social Science (3)
				Natural Science (3)	Natural Science - AG 200 (4)
				60 credits	62 credits