

For Banner use:

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Req:

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

1.	Author(s): Ann Emmsley	Alpha Program/name											
2.	Department: STEM Program: Ag	riculture and Natural Resources	Program Code Concentration										
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 p	rogram										
	Existing program Title: Sustainable Tropical Crop Proposed program Title:	Production											
5.	Credential (degree or certificate) proposal  ☐ New credential added to existing program  ☐ Modification to existing credential												
	Type of credential  Degree: AA AS Certificate: CA CC CO ACS  Other, specify:												
	Existing credential: Title: Sustainable Tropical Crop Management Credits: 39 Proposed credential: Title: Sustainable Tropical Crop Management Credits: 41												
)	If modification, describe change:  ☐ Change in credential name  ☐ Change in course requirement(s); specify: ;Deleting AG 290 (1). Replacing with AG 193V (1); Adding three new courses as requirements: AG 103(2), AG 104 (1); Replacing the requirement for AG 263 or AG 266(3) with AG 252 (2); The total number of credits for the CA degree changes from 39 to 41 credits.  ☐ Change in prerequisite(s) for credential; specify:  ☐ Other; specify:												
	Program map must be attached. (For modifications,	ogram 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 entreprenuership 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:	in:										
9.	Special resources (personnel, supplies, etc.) required:	□ no □ yes, explain:											
10.	Special scheduling considerations:												
$\boxtimes$	<ol> <li>Which program SLOs does this certificate support? (list all that apply and explain, if necessary.)</li> <li>Program SLO 1: Use basic business principles to manage projects or design a horticultural business enterprise.         Explain: Provides more business and production experiences.     </li> <li>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.     </li> </ol>												

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

Froposed by: Author or Program Coordinator	10/14/11 Date
Checked by: Academic Subject Area Representative to Curriculum Committee	10/14//1 Date
Requested by Department: Department Chair	Date
Recommended by: Curriculum Chair	Date Date
Approved by Academic Senate: Academic Senate Chair	2-1-() Date
Endorsed by: Chief Academic Office	2-4-12 Date
Approved by: Chancellor	Date

iculture & 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

Agriculture 122(3), 174(3), 233(2), 235(3), 260(3), 194v(3)

English 22, 100, or 106(3) Mathematics 18 or higher(3)

Additional courses to improve employability, but not required:

Agriculture 200(4), 201(3), 250(4), 269(3), 281(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)

BUSN 189, MATH 18 or higher(3)

Floriculture Management: 34 credits

Agriculture 263(3), 269(3), 290(1)

Horticulture & Landscape Maintenance: 40 credits

Agriculture 250(4), 260(3), 269(3), 281(3)

Sustainable Tropical Crop Production: 15 credits

Agriculture 122(3), 174(3), 232(1), 235(3), 251(4), 290(1)

Landscape Maintenance: 13 credits

Agriculture 235(3), 250(4), 260(3), 269(3)

Automotive Technology 80(2) English 22, 100, or 106(3)

Nursery Management: 34 credits

Agriculture 266(3), 269(3), 290(1)

Sustainable Tropical Crop Management: 39 credits

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

All CA Horticulture & Landscape courses(40) plus:

Electives(5) from AG Elective List below General Education(15) listed below

General Education required for both AAS programs: 16 credits

English 21, 22, 55, 100, 102, 104, 106, or COM 145(3)

ICS 101 or BUSN 150(3)

Humanities elective(3)

Natural Science elective(3)

Social Science elective(3)

## Sustainable Tropical Crop Management: 60 credits

All CA Horticulture & Landscape courses(39) plus: Electives(6) from AG Elective List below

General Education(15) listed below

#### AG Elective List:

Agriculture 92P(1), 92Q(1), 92R(1), 92S(1), 92T(1), 263(3),

264(3), 266(3), 290(1)

Tropical Crop options: Agriculture 250(4), 260(3), 269(3)

Horticulture options: Agriculture 194v(1-3), 232(1), 233(2), 251(4)

Trade/Natural Science appropriate to major, e.g., ACC 124

Crop Management	Proposed	AG 103(2)	5 104 (1)	AG 122 (3)	AG 174 (3)	AG 232 (1)	AG 235 (3)	AG 251 (4)	AG 193V (1)		AG 201(3)	AG 230 (3)	AG 281 (3)	AG 252 (2)	AMT 80 (2)	MATH 18 (3)	ENG 22 (3)	AG electives (9)	ENG or COM (3)	ICS 101 or BUSN 150(3)	Humanities (3)	Social Science (3)	Natural Science - AG 200 (4)		62 credits	
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