

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](mailto:aemmsley@hawaii.edu) for latest program schedule cycle.

#### Requirements for Certificates of Competence (CO):

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

#### Requirements for Certificates of Completion (CC):

<b>Turfgrass Specialist: 23 credits</b>	<b>Sustainable Tropical Crop Production: 15 credits</b>
Agriculture 122(3), 174(3), 233(2), 235(3), 260(3), 194v(3) English 22, 100, or 106(3) Mathematics 18 or 50, or higher(3) <i>Additional courses to improve employability, but not required:</i> Agriculture 200(4), 201(3), 250(4), 269(3), 281(3)	Agriculture 122(3), 174(3), 232(1), 235(3), 251(4), 290(1)
	<b>Landscape Maintenance: 13 credits</b>
	Agriculture 235(3), 250(4), 260(3), 269(3)

#### Requirements for Certificates of Achievement (CA):

<b>Courses required for all four CA programs: 27 credits</b>	
Agriculture 122(3), 174(3), 200(4), 201(3), 230(3), 235(3) BUSN 189, MATH 18 or 50, or higher(3)	Automotive Technology 80(2) English 22, 100, or 106(3)
<b>Floriculture Management: 34 credits</b>	<b>Nursery Management: 34 credits</b>
Agriculture 263(3), 269(3), 290(1)	Agriculture 266(3), 269(3), 290(1)
<b>Horticulture &amp; Landscape Maintenance: 40 credits</b>	<b>Sustainable Tropical Crop Management: 39 credits</b>
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

<b>Horticulture &amp; Landscape Maintenance: 60 credits</b>	<b>Sustainable Tropical Crop Management: 60 credits</b>
<i>All CA Horticulture &amp; Landscape courses(40) plus:</i> Electives(5) from AG Elective List below General Education(15) listed below	<i>All CA Horticulture &amp; Landscape courses(39) plus:</i> Electives(6) from AG Elective List below General Education(15) listed below
<b>General Education required for both AAS programs: 16 credits</b>	<b>AG Elective List:</b>
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)	Agriculture 92P(1), 92Q(1), 92R(1), 92S(1), 92T(1), 263(3), 264(3), 266(3), 290(1) <i>Tropical Crop options:</i> Agriculture 250(4), 260(3), 269(3) <i>Horticulture options:</i> Agriculture 194v(1-3), 232(1), 233(2), 251(4) Trade/Natural Science appropriate to major, e.g., ACC 124