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 vege- table 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 Manoa, 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)

Sustainable Tropical Crop Production: credits

Agriculture AG 103(2)AG 104(2)122(3), 174(3), 232(1235(3), 251(4),

Additional courses to improve employability, but not required: Landscape Maintenance: 13 credits Agriculture 200(4), 201(3), 250(4), 269(3), 281(3) Agriculture 235(3), 250(4), 260(3), 269(3)

## Requirements for Certificates of Achievement (CA):

Courses required for all four CA programs: 27 credits

80(2), MATH 18 or higher(3)

Agriculture 122(3), 174(3), 200(4), 201(3), 230(3), 235(3)

Floriculture Management: 34 credits Agriculture 263(3), 269(3), 193V(1)

Horticulture & Landscape Maintenance: 40-41 credits

Agriculture 250(4), 260(3), 269(3) or 265(4), 281(3)

Automotive Technology

English 22, 100, or 106(3)

Nursery Management: 34 credits

Agriculture 266(3), 269(3), 193V(1)

Sustainable Tropical Crop Management: 41credits

Agriculture AG 103(2), AG104(1)232(1), 251(4), AG 252(2),

, 281(3), 193V(1)

## Requirements for Associate in Applied Science (AAS) Degree60-62credits

Horticulture & Landscape Maintenance: 60-61 credits

All CA Horticulture & Landscape courses(40) plus:

Electives(8) from AG Elective List below

General Education(12) listed below

General Education required for both AAS programs: 12 credits

English 21, 22, 55, 100, 102, 104, 106, or BUS 130(3)

Humanities elective(3)

Sustainable Tropical Crop Management: 62 credits

All CA Sustainable Tropcial Crop courses)41 plus:

Electives (9) from AG Elective List below

General Education(12) listed below

AG Elective List:

Agriculture JCS 101 or BUSN 150(3)

Tropical Crop options: Agriculture AG 113(1), AG 162(2), AG 253(4),

Social Science elective(3)

AG 265(4), Ag 263(3)AG 266(3)

Horticulture options: Agriculture 194v(1-3), AG 269(3) or AG 265(4)232(1)

Trade/Natural Science appropriate to major, e.g., WELD 198

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 vege- table 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 Manoa, 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)

Landscape Maintenance: 13 credits

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

Agriculture 266(3), 269(3), 290(1) 193V(1)

Nursery Production: 9 credits

Geographic Information Systems 180(4)

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)

Sustainable Tropical Crop Production: 45 credits

Agriculture AG 103(2)AG 104(2)122(3), 174(3), 232(1),-

235(3), 251(4), 290(1)

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) 193V(1)

Horticulture & Landscape Maintenance: 40-41 credits

Agriculture 250(4), 260(3), 269(3) or 265(4), 281(3)

Sustainable Tropical Crop Management: 39 41 credits Agriculture AG 103(2), AG104(1)232(1), 251(4), AG 252(2), 263-or-

<del>266(3)</del>, 281(3), <del>290(1)</del>193V(1)

Automotive Technology 80(2)

Nursery Management: 34 credits

English 22, 100, or 106(3)

Requirements for Associate in Applied Science (AAS) Degree:-60-60-62credits

Horticulture & Landscape Maintenance: 60-61 credits

All CA Horticulture & Landscape courses (40) plus:

Electives(§8) from AG Elective List below General Education(1245) listed below

General Education required for both AAS programs: 12.46 credits

English 21, 22, 55, 100, 102, 104, 106, or <u>BUS 130COM-145</u>(3)

ICS 101 or BUSN 150(3)

Humanities elective(3) Natural Science elective(3) Sustainable Tropical Crop Management: 62\_60 credits

All CA Sustainable Tropcial Crop courses Hortsculture & Landscupe conver(39)11 plus:

Electives (96) from AG Elective List below

General Education(1245) listed below

AG Elective List:

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

261(3), 266(3), 290(1)

Tropical Crop options: Agriculture AG 113(1), AG 162(2), AG 253(4), AG +

265(4). Ag 263(3)AG 266(3) 250(4), 260(3), 269(3)

Horticulture options: Agriculture 194v(1-3), AG 269(3) or AG

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Social Science elective(3) 121

265(4)-232(1), 233(2), AG 266(3), AG 263(3), Ag 253(4)251(4)
Trade/Natural Science appropriate to major, e.g., WELD 198ACC