PLANT BIOLOGY AND TROPICAL AGRICULTURE

Associate in Science Degree
Academic Subject Certificate
  Plant Biology and Tropical Agriculture
Certificate of Achievement
Certificate of Competence

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Plant Biology and Tropical Agriculture Associate in Science program will prepare students for various careers in agriculture through hands-on practices and classroom instructions. The subjects included plants, soils, crop production, pest management, business principles, food, agriculture and the environment.

IMPORTANT

AA, AS, and AAS degrees and ASCs and CAs require a cumulative 2.0 GPR or better for all courses used to meet the degree or certificate requirements. Transfer coursework is not calculated into the GPR.

To graduate with a degree from a Leeward Community College, a student must have earned a minimum of 12 credits of program courses in the degree/major at Leeward.
PLANT BIOLOGY AND TROPICAL AGRICULTURE

Associate in Science Degree
Plant Biology and Tropical Agriculture
64 Credits

General Education Requirements

Course                          Credits
Written Communication           3
ENG 100 Composition I or
ENG 100E Composition I or
any FW designated courses numbered 100 or above
Symbolic Reasoning             3
Select one of the following
MATH 100 Survey of Math (3)
MATH 103 College Algebra (3)
or any higher FS designated course

Global Multicultural Perspectives 6
Select 1 course from 2 different groups:
Group A: ANTH 151, ART 175, HIST 151 (suggested)
Group B: ART 176, BUSN 277, BUSN 279,
         GEOG 102, HIST 152, ANTH 152
Group C: GEOG 151, MUS 107, REL 150

Diversification Social Sciences 3
Select 1 Diversification Social Sciences course
   See Counselor for list.
SOC 151 Introduction to the Sociology of Food (DS)
   suggested or other DS courses

Diversification Arts, Humanities, and Literature (DA/DH/DL) 3
Select 1 DA/DH/DL course. See Counselor for list.
HWST 107 Hawai‘i: Center of the Pacific (DH)
   suggested and/or other DA/DH/DL courses

Diversification Natural Sciences (DB/DP/DY) 8
Diversification Biological (DB+DY) 4 credits
   BOT 101+L General Botany (4) or
   BIOL 101+L Biology (4) for non-majors or
   BIOL 171+L Introduction to Biology (4)
Diversification Physical (DP+DY) 4 credits
   CHEM 151+L Elementary Survey of Chemistry (4) or
   CHEM 161+L General Chemistry I (4)

Total Gen Ed Credits 26

Concentration Requirements

Course Alpha  Course Title                                    Credits
BOT 130 and BOT 130L Plants in Hawaiian Environment (3) 4
BOT 130 and BOT 130L and lab (1)
HORT 110 and HORT 110L Hawai‘i Horticulture & Nutrition (3) 3 or 4
AG 112* or Introduction to Organic Agriculture (4) or
PBT 251* Sustainable Crop Production (3)
PBT 100 Orientation to Hawai‘i’s Agriculture Industry 1
PBT 122 Soil Technology                                    3
PBT 141 Integrated Pest Management                         3
PBT 200+200L Introduction to Plant Science + Lab (4)
PBT 264 Introduction to Horticulture and Plant Propagation 3
PBT 290V PBT Internship                                    1-4

Total Concentration Credits 22-26

Electives (3 credits required)

Course Alpha  Course Title                                    Credits
PBT 250 Tropical Landscape                                 3
PBT 269 Ornamental Plant Materials                          3
PBT 275 Introduction to Crop Improvement                    4
AG 112* Introduction to Organic Agriculture                4
PBT 251* Sustainable Crop Production                        3

Total Degree Credits 64

Additional Requirements

Course Alpha  Course Title                                    Credits
ICS 101 Digital Tools for the Information World (3)          3
BUS 101 Business Information Systems (3)                     3
GEOG 101 or PBT 210 Natural Environment (DP)(3)              3
MGT 135 Agriculture Entrepreneurship in Hawai‘i (3)          3
MGT 125 or BUSN 164 Starting a New Business (3)              3
   Career Success (3)

   Additional Requirements Credits 9

Associate in Science in Plant Biology and Tropical Agriculture Program Learning Outcomes

Upon successful completion of this program, students will be able to:
Use appropriate scientific and agricultural terminology to communicate in different settings and with different audiences.
Identify and analyze the biotic and abiotic factors that affect agricultural production and manage these factors at the local, state, national, and global level.
Understand and apply principles and practices from plant and soil sciences, and tropical agriculture to improve production and profitability.
Apply scientific methods and information technology to manage agronomic and agribusiness challenges and opportunities.
Demonstrate the fundamental knowledge of the contemporary issues involving food, agriculture and the environment.

NOTES
*When AG 112 or PBT 251 is used to count as a concentration requirement, the course cannot also count as an elective.

Source: Leeward Community College Catalog 2016-17