

Area of Study: Career and Technical
Pathway: Horticulture: Sustainable Agriculture Technology
Degree type: Associate in Applied Science
Curriculum Code: HRT.SAG.AAS (C201E)

(Total Program Credits: 60)

Sustainable Agriculture Technology curriculum is designed to provide students the skills necessary to manage an environmentally sound and sustainable urban food production system. Graduates are qualified for numerous positions associated with sustainable agriculture including horticulture, nursery operations, agricultural education and managing food production.

PROGRAM LEARNING OUTCOMES:

At the successful completion of the Associate in Applied Science Degree in Sustainable Agriculture Technology program, the graduate will be able to:

- design a sustainable urban food production system;
- analyze social and political framework of sustainable food of systems;
- prepare solutions to address environmental issues caused by landscape practices; and
- develop a power point which demonstrates a model landscape management practices to provide a healthier environment.

Placement Measures MAT, RHT, and COL sequence placement will be determined by an Academic Advisor. Contact your Academic Advisor or Transfer Specialist (if transferring), before registering for courses. *Developmental education courses do not transfer. They assist students in the path towards college credit.*

Program Map for Full-Time Students

Semester 1: Fall Semester	Category	Pesticide Applicator Certificate	Greenhouse Grow Operations Certificate	Grounds Maintenance Certificate	Horticulture AAS Degree	Next Steps
						Meet with your Academic Advisor to create an academic plan.
HRT 127 Entomology: Insects, People and Plants (3)	<i>Required</i>	✓	✓	✓	✓	Explore transfer institutions and admissions requirements by attending transfer events (if intending to transfer) . Pesticide Certificate Complete
HRT 128 Plant Pathology (3)	<i>Required</i>	✓	✓	✓	✓	
SAT 100 Principles of Agroecology (3)	<i>Required</i>					
SAT 105 Urban Agriculture Issues (3)	<i>Required</i>					
RHT 101 Freshman Rhetoric & Composition I (3)	<i>Communication</i>				✓	

15 Credit Hours

Note: Grade of "C" or higher is an IAI requirement for RHT 101 and RHT 102.

Semester 2: Spring	Category	Pesticide Applicator Certificate	Greenhouse Grow Operations Certificate	Grounds Maintenance Certificate	Horticulture AAS Degree	Next Steps
HRT 125 Plants and Society (4)	<i>Required/ also a Math or Science</i>		✓	✓	✓	Meet with your Academic Advisor to update your academic (and transfer plan, if intending to transfer).
HRT 126 Plant Propagation/Greenhouse Operations (3)	<i>Required</i>		✓	✓	✓	
HRT 135 Soils and Fertilizers (3)	<i>Required</i>		✓	✓	✓	
SAT 130 Sustainable Plant Health Care (3)	<i>Required</i>					
SPE 101 Principles of Effective Speaking (3)	<i>Communication</i>				✓	If intending to transfer, create a Transferology account to explore how coursework transfers and attend a Transfer 101 Workshop . Greenhouse Certificate complete

16 Credit Hours

HRT 1250 meets the Mathematics and/or Science general education requirement.

Students must complete RHT 101, with SPE 101, or RHT 101 with RHT 102. Students intending to transfer are encouraged to complete all three courses: RHT 101, RHT 102 and SPE 101 to meet university requirements.

Semester 3: Summer	Category	Pesticide Applicator Certificate	Greenhouse Grow Operations Certificate	Grounds Maintenance Certificate	Horticulture AAS Degree	Next Steps
HRT 265 Vegetable and Herb Gardening (3)						

3 Credit Hours

Semester 4: Fall	Category	Pesticide Applicator Certificate	Greenhouse Grow Operations Certificate	Grounds Maintenance Certificate	Horticulture AAS Degree	Next Steps
						Meet with your Academic Advisor to

BIS 105 Environmental Biology (4)	<i>Science</i>				✓	update your academic (and transfer plan, if intending to transfer). Attend a Ready to Apply Workshop .
ECO 103 Microeconomics (3)	<i>Social and Behavioral Sciences</i>				✓	
HRT 154 Internship (3)	<i>Required</i>				✓	
HUM 104 Humanities Through the Arts (3) Or HUM 165 Latin American Experience (3)	<i>Humanities or Fine Arts/Human Diversity</i>				✓	

13 Credit Hours

Semester 5: Spring	Category	Pesticide Applicator Certificate	Greenhouse Certificate	Grounds Maintenance Certificate	Horticulture AAS Degree	Next Steps
SAT 110 Natural Resource Management (Soils and Water) (3)	<i>Required</i>					Meet with your Academic Advisor to finalize your transfer plan and apply to your transfer institution(s) if intending to transfer. Submit graduation petition by deadline (check for the specific date in catalog or syllabi.)
SAT 140 Sustainable Organic Plants (4)	<i>Required</i>					
SAT 210 Sustainable Plant Production for Human Nutrition (3)	<i>Required</i>					
SAT 220 Designing Food Production Systems in Urban Landscaping (3)	<i>Required</i>					

13 Credit Hours

Graduation requirements:

Total semester hours required in *general education* toward the AAS Degree **15**

Total semester hours for program *required courses, program specific electives and other electives* toward the AAS Degree in Sustainable Agriculture **45**

Minimum total semester hours required for the AAS Degree **60**

General Education requirements:

- Communications:** Two courses (six semester hours). Department choice of RHT 101 and RHT 102 or RHT 101 with SPE 101. If transferring, it is suggested to take all three courses.
- Social and Behavioral Sciences or Humanities or Fine Arts:** Two courses (six semester hours) are required for graduation; department choice whether courses are taken from each discipline or two courses from same discipline, to include one approved [Human Diversity](#) course.
- Mathematics or Physical or Life Science:** One course (three semester hours); review specific program requirements for your selected curriculum.

See *HRT course descriptions*; *SAT course descriptions*.

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