

Horticulture Technology

Associate of Applied Science

Purpose: The Horticulture Technology program is designed to prepare students for a wide range of horticulture careers. Training is available for those who seek to begin a career track, as well as those who are changing careers. Individuals already in the green industry are invited to improve or upgrade their skills and knowledge with appropriate courses.

Occupational Objectives: The program offers hands-on laboratory work as well as classroom instruction in the design-install-maintain aspects of landscaping, in floral design, and in production of horticultural materials. Many of our graduates own and operate their own businesses while others are employed by corporate, commercial, or governmental entities.

Admission Requirements: General college curricular admission

Program Notes: Students in the Horticulture Technology program must complete a basic core of specified horticulture technology and general education courses. In addition, the students will select technical courses which match with their career objectives, in consultation with the program head.

Students who already have a two-year, four-year, or graduate degree should request that their transcripts be sent to the college registrar if transfer credit is desired. It is strongly recommended that students meet with the program head or counselor either before registering or early in their first semester of study.

Computer Competency Requirement: Students in this program will meet the college's computer competency requirement by successfully completing ITE 115. Students can also meet this requirement by passing the college's computer competency exam, administered in the testing centers on each campus, in which case they will receive college credit for ITE 115. Students not passing the computer competency exam may retake the exam only once.

Curriculum Sequence: The curriculum sequence below is one example of how courses may be completed. Students should work with their program advisor to determine the most appropriate sequence.

CURRICULUM				
COURSE	TITLE	LEC. HRS.	LAB. HRS.	CRS. CRE.
SDV 100	College Success Skills	1	0	1
ENG 111	College Composition I	3	0	3

MTH 120	Introduction to Mathematics	3	0	3
___ ___ ¹	Social/Behavioral Science Elective	3	0	3
___ ___ ¹	Humanities/Fine Arts Elective	3	0	3
HRT 106 ²	Practical Horticulture	0	2	1
HRT 110 ²	Principles of Horticulture	3	0	3
TOTAL		16	2	17
ENG 112	College Composition II	3	0	3
ITE 115	Introduction to Computer Applications and Concepts	3	0	3
___ ___ ¹	Social/Behavioral Science Elective	3	0	3
HRT 125 ^{2,3}	Chemicals in Horticulture	2	2	3
HRT127 ²	Horticultural Botany	2	2	3
___ ___ ¹	Personal Wellness Elective	0-2	0-4	2
TOTAL		13-15	4-8	17
HRT 201²	Landscape Plant Materials I	2	2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
TOTAL		10-14	0-10	15
HRT 202 ²	Landscape Plant Materials II	2	2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT ___ ⁴	Approved HRT Elective	2-3	0-2	3
HRT 290 ^{2,5}	Coordinated Internship	0	4	2
TOTAL		10-14	6-14	17
Total Minimum Credits for AAS Degree in Horticulture				66

¹A list of approved general education electives (humanities/fine arts, social/behavioral sciences, mathematics/science, and personal wellness) is provided in the General Education section of the catalog under Curriculum Planning and Design.

²Course is required of all Horticulture Technology AAS students.

³Credit will be given for HRT 125, Chemicals in Horticulture, upon evidence of a valid Commercial Pesticide Applicator Certificate (with an endorsement in 3-A and 3-B) issued from VDACs or completion of HRT 199, Training for Commercial Pesticide Application.

⁴Approved HRT electives are listed below according to focus areas in the field of horticulture.

⁵Coordinated Internship will be waived on evidence of five or more years experience in the green industry. An approved HRT elective will be substituted.

Following is a list of approved Horticulture electives that is organized according to focus areas within the green industry. In consultation with their HRT advisor, students will select a total of 24 credits of HRT electives from this list that are consistent with students' career objectives.

Horticulture electives in the **SUSTAINABLE AGRICULTURE** focus

- HRT 130 Introduction to Biointensive Mini-Farming (3 cr.)
- HRT 134 Four Season Food Production (3 cr.)
- HRT 238 Growing for Market Mini-Farming (3 cr.)
- HRT 239 Complete Diet Mini-farming (3 cr.)
- HRT 195 Topics in Horticulture: Summer Workshops (1 cr.)

Horticulture electives in the **LANDSCAPE DESIGN** focus

- HRT 120 History of Garden Design (3 cr.)
- HRT 150 Theory of Landscape Design (3 cr.)
- HRT 231 Planting Design I (3 cr.)
- HRT 232 Planting Design II (3 cr.)
- HRT 233 Landscape Drawing Applications (CAD-I) (3 cr.)
- HRT 234 Advanced Landscape Drawing Applications (CAD-II) (3 cr.)
- HRT 235 Landscape Drawing (3 cr.)
- HRT 246 Herbaceous Plants (3 cr.)
- HRT 249 Perennial Plants (3 cr.)
- HRT 275 Landscape Construction and Maintenance (3 cr.)

Horticulture electives in the **PLANT PRODUCTION** focus

- HRT 115 Plant Propagation (3 cr.)
- HRT 121 Greenhouse Crop Production I (3 cr.)
- HRT 122 Greenhouse Crop Production II (3 cr.)
- HRT 207 Plant Pest Management (3 cr.)
- HRT 225 Nursery and Garden Center Management (3 cr.)
- HRT 226 Greenhouse Management (3 cr.)

Horticulture electives in the **FLORAL DESIGN** focus

- HRT 260 Introduction to Floral Design (3 cr.)
- HRT 266 Advanced Floral Design (3 cr.)
- HRT 268 Advanced Floral Design Applications (3 cr.)
- HRT 198 Seminar & Project in Floral Design
- HRT 295 Topics in Horticulture: Advanced Floral Design Styles and Techniques

Horticulture electives in the **LANDSCAPE and TURF MANAGEMENT** focus

- HRT 119 Irrigation Systems for Turf and Ornamentals (3 cr.)
- HRT 126 Home Landscaping (3 cr.)
- HRT 199 Training for Commercial Pesticide Application (3 cr.)
- HRT 205 Soils (3 cr.)
- HRT 207 Plant Pest Management (3 cr.)
- HRT 227 Professional Landscape Management (3 cr.)

HRT 246 Herbaceous Plants (3 cr.)
HRT 249 Perennial Plants (3 cr.)
HRT 259 Arboriculture (3 cr.)
HRT 269 Professional Turf Care (3 cr.)
HRT 275 Landscape Construction and Maintenance (3 cr.)
HRT 295 Sports Turf Management (3 cr.)