

HORTICULTURE, CERTIFICATE OF PROFICIENCY

Meramec

Students learn both the science and the art of horticulture through a combination of classroom theory with laboratory practice and on-the-job training. Courses in soils, plant diseases, turfgrass management and cooperative horticulture are integral parts of the program. Students receive their training in the College's greenhouses, outdoor nursery facilities, laboratories and lath house. Students should enjoy working with plants and observing the growth process.

Graduates may specialize in nursery management, interior landscape design and maintenance, greenhouse management, horticulture retail sales, commercial grounds management and urban forestry. Entry-level jobs are available with state and city park departments, nurseries, landscape contracting firms, golf courses and retail sales.

Cost of Attendance. For more information on cost of attendance visit MoSCORES (<https://scorecard.mo.gov/Search/>).

Program Career and Salary Information. Pursuant to Missouri HB 1606 (2018), information regarding the number of credit hours, program length, employment rate, wage data, and graduates employed in careers related to their program of study at St. Louis Community College can be found at the following URL: <https://scorecard.mo.gov/scorecard/> (https://www.google.com/url?q=https://scorecard.mo.gov/scorecard/&sa=D&ust=1555536894857000&usg=AFQjCNG1xf3E_i2lO96zEytILO-s5xaJCQ). Search using School / Program "St. Louis Community College" and choose the degree or credential type of interest.

The following limitations to the data apply: Information provided is based on the most recent cohorts available. Typically, most recent cohorts for wage and completion data are six years prior to the current academic year. Time to complete a program of study varies depending on the number of credit hours students earn per semester.

Interested in this program? Start the enrollment process by visiting the Apply to STLCC (<https://www.stlcc.edu/admissions/apply-to-stlcc/>) page.

At the completion of the program, students are expected to:

1. identify an array of plant material in a landscape, greenhouse, or garden center setting.
2. utilize soil test results for proper plant selection.
3. manage landscape areas and gardens using proper and professional methods of pruning, planting, and fertilizing.
4. develop a landscape maintenance schedule.
5. identify plant pests, insects, diseases, and weeds.
6. identify the botanical components of plants and their contributions to the life cycle of a plant.
7. manage plant pests, insects, diseases, and weeds using ethical and sustainable methods.
8. manage turf grass using proper methods of seeding, installing, watering, fertilizing, and mowing.
9. recognize the advantages to the local ecology offered by native plants.

10. grow a variety of plants in a greenhouse or landscape setting.
11. utilize plants according to their preferred culture and soil requirements.

Program of Study

Code	Title	Credit Hours
Horticulture Core		
HRT 101 or BIO 124	Introductory Horticulture General Botany I (MOTR BIOL 100LB)	4
HRT 102	Soils	3
HRT 105	Workplace Learning: Horticulture	1
HRT 206	Ornamental Plants - Trees and Vines	3
HRT 207	Ornamental Plants - Shrubs and Evergreens	3
HRT 230	Ornamental Plants - Herbaceous Perennials	3
HRT 214	Grounds Management	3
HRT 227	Plant Pest Management	4
Select one of the following focus areas:		6-9
Turfgrass Management		
Landscape Design		
Plant Production and Marketing		
Landscape Management		
General Horticulture		
Horticulture Electives		6
HRT 235	Annuals and Vegetables	
Select 3-6 credit hours from Focus Areas		

Total Credit Hours **36-39**

Focus Areas

Turfgrass Management

Code	Title	Credit Hours
HRT 201	Turfgrass Management	3
HRT 220	Landscape Irrigation	3

Total Credit Hours **6**

Landscape Design

Code	Title	Credit Hours
HRT 104	Landscape Design I	3
HRT 217	Landscape Design II	3
HRT 218	Landscape Design III	3

Total Credit Hours **9**

Plant Production and Marketing

Code	Title	Credit Hours
HRT 103	Plant Propagation	3
HRT 205	Nursery and Garden Center Practices	3
HRT 241	Greenhouse Management	3

Total Credit Hours **9**

Landscape Management

Code	Title	Credit Hours
HRT 201	Turfgrass Management	3
HRT 220	Landscape Irrigation	3
HRT 242	Urban Tree Management	3
Total Credit Hours		9

General Horticulture

Code	Title	Credit Hours
Select 9 credit hours from above focus areas		9
Total Credit Hours		9

PLEASE NOTE: If you originally enrolled at STLCC prior to Fall 2021, you may need to view an archived catalog (<https://www.stlcc.edu/programs-academics/course-catalog/>) for your correct program requirements. Please speak with an advisor or the program coordinator for more information.

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
HRT 101 or BIO 124	Introductory Horticulture or General Botany I (MOTR BIOL 100LB)	4	Reading Proficiency	HRT 101 is a mandatory class and must be taken prior to or concurrent with any HRT course.
HRT Elective		3-6		HRT 104, 103, or 201 recommended
Credit Hours		7-10		
Spring				
HRT 207	Ornamental Plants - Shrubs and Evergreens	3	HRT 101 or BIO 124 and Reading Proficiency	Offered Spring only
HRT 102	Soils	3	HRT 101 or BIO 124 and Reading Proficiency	
HRT Elective		3		Choose from HRT 103, 104, 201, 205, 217, 218, 220, 235, 240, 241, 242
Credit Hours		9		
Second Year				
Fall				
HRT 230	Ornamental Plants - Herbaceous Perennials	3	HRT 101 or BIO 124 and Reading Proficiency	
HRT 105	Workplace Learning: Horticulture	1	HRT 101 or BIO 124, approval of Horticulture department and Reading Proficiency	Course is arranged
HRT 206	Ornamental Plants - Trees and Vines	3	HRT 101 or BIO 124 and Reading Proficiency	Offered Fall only
HRT Elective		3		Choose from HRT 103, 104, 201, 205, 217, 218, 220, 235, 240, 241, 242
Credit Hours		10		
Spring				
HRT 214	Grounds Management	3	HRT 101 or BIO 124 and Reading Proficiency	Apply for graduation
HRT 227	Plant Pest Management	4	HRT 101 or BIO 124 and Reading Proficiency	Completion of HRT 206 and HRT 207 is recommended prior to taking HRT 227
HRT Elective		3		Choose from HRT 103, 104, 201, 205, 217, 218, 220, 235, 240, 241, 242
Credit Hours		10		
Total Credit Hours		36-39		

*Horticulture, Certificate of Proficiency
(10/21/21)*

*Click on the hyperlinked course number to view additional information about the course.

**Students completing a course that has been assigned a MOTR number may transfer that course to any public institution in Missouri. Those who complete CORE 42 requirements will have that verification on their transcript.

*** It is your responsibility to verify that the courses listed above will transfer to the four-year institution of your choice. Maximize your transfer credits/classes by meeting with an academic advisor.