

HORTICULTURE, ASSOCIATE IN APPLIED SCIENCE

Meramec

The Associate in Applied Science in Horticulture centers on 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-s5xaJQC). 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. gather accurate information for soil testing.
3. analyze soil test results for proper plant selection or changes to soil conditions.
4. manage landscape areas and gardens using proper and professional methods of pruning, planting, and fertilizing learned and practiced in the classroom.
5. develop a landscape maintenance schedule that utilizes correct horticulture methods of management.
6. identify plant pests, insects, diseases, and weeds using ethical and sustainable methods.
7. design a residential or commercial landscape.
8. develop a business plan for a small green industry related business.

9. apply the methods of propagating plant material using the latest technology available as practiced in a laboratory setting.
10. demonstrate the ability to collaborate with community landscape programs, tending gardens, and developing tree care programs.
11. maintain turf grass areas using up-to-date methods of seeding, installing, watering, fertilizing, and mowing learned and practiced in the classroom.
12. operate a greenhouse using methods learned in the classroom and laboratory.
13. recognize the advantages to the local ecology offered by native plants.
14. grow a variety of plants in a greenhouse or field setting.
15. utilize plants according to their preferred culture and soil requirements.

Missouri Civics Examination. Students entering college for the very first time in fall 2019 and who intend to complete an associate's degree must successfully complete a civics examination. Information on who is eligible for a waiver can be found on our website: <https://stlcc.edu/programs-academics/missouri-civics-exam.aspx>.

Program of Study

Code	Title	Credit Hours
Career General Education		
ENG 100 or ENG 101	College Composition I (MOTR ENGL 100)	3
COM 101	Oral Communication I (MOTR COMM 100)	3
CHM 109	Chemistry and the Environment (MOTR CHEM 100L)	4
MTH 140	Intermediate Algebra (or higher)	3
PSY 200	General Psychology (MOTR PSYC 100)	3
XXX xxx	Social & Behavioral Sciences: Civics Requirement	3
Program Requirements		
Select 6-7 credit hours of the following:		6-7
ACC 100 or ACC 110	Applied Accounting Financial Accounting I	
BLW 101	Business Law I	
BUS 101	Small Business Management	
MGT 101	Introduction to Supervision	
MKT 104	Principles of Selling	
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		61-65

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

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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
MTH 140	Intermediate Algebra (or higher)	3	MTH 030 or MTH 040 or MTH 050 with a grade of "C" or better or satisfactory score on placement test and Reading Proficiency	
ENG 100 or ENG 101	or College Composition I (MOTR ENGL 100)	3		
HRT Elective		3		HRT 103, HRT 104, or HRT 201 recommended
Program Requirement Elective		3-4		Choose from ACC 100, ACC 110, BLW 101, BUS 101, MGT 101, or MKT 104
Credit Hours		16-17		
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	
CHM 109	Chemistry and the Environment (MOTR CHEM 100L)	4	MTH 020 with a minimum grade of "C" or testing into MTH 050 or higher on the Math placement test and Reading Proficiency	

COM 101	Oral Communication I (MOTR COMM 100)	3	Reading Proficiency or concurrent enrollment in ENG 070	
HRT Elective		3-6		Choose from HRT 103, HRT 104, HRT 201, HRT 205, HRT 217, HRT 218, HRT 220, HRT 235, HRT 240, HRT 241, HRT 242, or HRT 245
Credit Hours		16-19		
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
PSY 200	General Psychology (MOTR PSYC 100)	3	Reading Proficiency or concurrent enrollment in RDG 079	
Social & Behavioral Sciences: Civics Requirement		3		
HRT Elective		3		Choose from HRT 103, HRT 104, HRT 201, HRT 205, HRT 217, HRT 218, HRT 220, HRT 235, HRT 240, HRT 241, HRT 242, or HRT 245
Credit Hours		16		
Spring				
HRT 214	Grounds Management	3	HRT 101 or BIO 124 and Reading Proficiency	
HRT 227	Plant Pest Management	4	HRT 101 or BIO 124 and Reading Proficiency	
HRT Elective		3		HRT 235 recommended
Program Requirement Elective		3		Choose from ACC 100, ACC 110, BLW 101, BUS 101, MGT 101, or MKT 104
Credit Hours		13		
Total Credit Hours		61-65		

*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.