

Muskegon CC and MSU
LANDSCAPE and LAWN MANAGEMENT PROGRAM
MSU Landscape & Lawn Management Certificate

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MUSKEGON COMMUNITY COLLEGE COURSES (22 to 24 credits total)

Required:

BUS 121 Introduction to Business	3
BIOL 104 Introductory Biology II	4

Required - One of the following:

BCOM 101 Bus. & Tech. Communications	3
ENG 101 English Composition	3

Required - Two courses from the following:

BUS 100 Fundamentals of Accounting	3
or BUS 101 Princ. of Accounting I	4

Required - One of the following:

CIS 110 Computer Concepts	3
CIS 120A Intro to Computer Info Systems	3

BUS 122 Principles of Management	3
BUS 125 Supervision	3
BUS 127 Human Relations	3
BUS 161A Effective Selling	3
BUS 221 Small Business Management	3
BUS 260 Principles of Marketing	3
BUS 263 Advertising Dynamics	3

Required – One of the following:

BUS 126 Business Math	3
MATH 050 Intermediate Algebra	4
MATH 107 Mathematical Excursions	4
MATH 109 College Algebra with Applications	4

*If you plan to transfer to MSU for a 4-year degree program, please consult your MCC Counselor and MSU Landscape & Lawn Management Coordinator for appropriate course substitutions.

MICHIGAN STATE UNIVERSITY COURSES (24 credits minimum)

Required:

AT 293	Placement Training (Internship)	3
CSS 210	Fundamentals of Soil & Landscape Science	3
CSS 202	World of Turf	2
CSS 203	Applied Turf Management	1
ENT 111	Basics of Applied Entomology	2
HRT 211	Landscape Plants I	3
HRT 212	Landscape Plants II	3
HRT 213	Landscape Maintenance	2
HRT 214	Landscape & Turfgrass Business Operations	2
PLP 104	Applied Plant Pathology for Ornamentals & Turf	3

Elective courses:

HRT 111	Landscape Design	3
HRT 218	Landscape Irrigation	3
HRT 290	Independent Study in Ornamental Horticulture	1-4
HRT 475	Study Abroad	4-6

Other MSU AT, HRT, and CSS courses not listed here may also be offered and accepted as electives in the program. Course offerings are subject to change. Consult with the program coordinator.

Total MSU & MCC credits needed to complete the MSU Certificate: 48

LANDSCAPE AND LAWN MANAGEMENT PROGRAM – MSU COURSES

(All courses are offered in the Greater Grand Rapids Area)

Required Courses:

- AT 293 Placement Training (Internship) 3 credits**
A supervised work experience in business and industry appropriate to the individual student's education and training. Contact program coordinator for more information and approval. Offered every semester of every year.
- CSS 210 Fundamentals of Soil and Landscape Science 3 credits**
Management of soils based on physical and chemical properties and biological activity. Effect of soil properties on plant growth. Selection and use of various soil management techniques and fertilizers. Offered Fall of even years.
- CSS 202 World of Turf 2 credits**
Role of turf in society and the environment. Principles underlying establishment and maintenance of turf on athletic fields, parks, home lawns, and golf courses. Aesthetic, safety, and economic aspects of turfgrass management practices.
- CSS 203 Applied Turf Management 1 credits**
Principles and practices for establishing and maintaining turf in residential and commercial lawns. Field trips required. Offered Spring of odd years.
- ENT 111 Basics of Applied Entomology 2 credits**
Basic insect biology, principles of integrated pest management, and the major pests of woody ornamentals, herbaceous perennials, turfgrass, and commercial greenhouses. Offered Fall of even years.
- HRT 211 Landscape Plants I 3 credits**
Identification, adaptation and evaluation of trees, deciduous shrub, narrow-leaved evergreens, woody vines and herbaceous perennials. Emphasis on management and functional uses in landscape. Offered Fall of even years.
- HRT 212 Landscape Plants II 3 credits**
Identification, adaptation and evaluation of flowering trees, deciduous shrubs, broad-leaved evergreens, woody vines, ground covers, bulbs and corms. Emphasis on management and functional uses in the landscape. Offered Fall of odd years.
- HRT 213 Landscape Maintenance 2 credits**
Principles and practices involved in ornamental plant management. Plant growth and development related to pruning, fertilization, weed control, transplanting; specifications. Offered Spring of odd years.
- HRT 214 Turf and Landscape Business Management 2 credits**
Organizing, marketing, and directing a business enterprise within the turf and landscape industry. Project estimating, bidding, and accounting. Practical hands-on learning using real-life examples and case studies. Offered Spring of even years.
- PLP 104 Applied Plant Pathology for Ornamentals and Turf 3 credits**
Provide an understanding of the nature and management of diseases of ornamental plants and turfgrass. To develop student's investigating and diagnostic skills for disease identification. Offered Fall of odd years.

Elective Courses:

- HRT 111 Landscape Design (Spring of Even years) 3 credits**
Landscape design techniques, plant selection, plant/site interaction, relationship between design and planning, construction materials and design specifications.
- HRT 218 Landscape Irrigation (Spring of Even years) 3 credits**
Principles and practices in the design, installation and maintenance of irrigation systems for turfgrass and landscape plants. Design hydraulics, equipment selection, pump stations, water features, water quality and conservation
- HRT 290 Independent Study in Ornamental Horticulture (Fall, Spring, and Summer every year) 1-4 credits**
An organized and planned learning experience developed by the student in cooperation with a faculty member in special studies, not part of regularly scheduled courses. Students *must* have approval from an instructor prior to enrolling for HRT 290.
- HRT 475 Study Abroad 4 to 6 credits**
Various programs offered through the College of Agriculture and Natural Resources. Contact the MSU program coordinator for more information on options, requirements, and enrollment procedures.