

Montcalm Community College & Michigan State University

LANDSCAPE and LAWN MANAGEMENT PROGRAM

MSU Landscape & Lawn Management Certificate

MSU Contacts: Marcus Duck, Program Coordinator – (517) 355-5191 ext. 1351; duckmarc@msu.edu
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MCC Contact: Admissions Office – (989) 328-1250; admissions@montcalm.edu

MONTCALM COMMUNITY COLLEGE COURSES* (24 credits total)

Required:

MGMT 235 Business Management 3

Required – Min of 8 credits from the following:

ACCT 105 Accounting for Small Business 3

or ACCT 115 Princ. of Accounting I 4

MGMT 245 Human Resource Management 3

MRKT 233 Marketing 3

MRKT 234 Retailing 3

MRKT 248 Advertising 3

BUSN 200 Legal Environment of Business 3

BUSN 251 Customer Relations 1

BUSN 253 Principles of Investment 3

Other business courses are available. Contact your advisor for approval.

Required - One of the following:

BUSN 180 Business Communications I 3

ENGL 100 Freshman English I 3

Required:

BIOL 110 Botany 4

Required:

CMIS 101 Computer Literacy 3

Required:

MATH 100 Elementary Algebra 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:

CSS 210 Fundamentals of Soil and Landscape Science 3

CSS 232 Intro to Turfgrass Management 3

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 and Turfgrass Business Operations 2

PLP 104 Applied Plant Pathology for Ornamentals & Turf 3

Required Internship:

AT 293 Placement Training 3

Elective courses:

AT 290 Independent Study in Ornamental Horticulture variable (1-4)

HRT 111 Landscape Design 3

HRT 218 Landscape Irrigation 3

HRT 475 Study Abroad 4

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 credits to complete the MSU Certificate: 48

LANDSCAPE AND LAWN MANAGEMENT PROGRAM – MSU COURSES

(GR = Grand Rapids; EL = On-campus in East Lansing)

Required Courses:

- 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 in GR; Fall & Spring of every year EL.
- CSS 232 Introduction to Turfgrass Management 3 credits**
Turfgrass management principles, utilization, identification, and establishment. Exploration of turfgrass responses to various cultural practices. Offered Spring of odd years in GR; Fall of every year EL.
- 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 in GR; Spring of every year EL.
- HRT 211 Landscape Plants I 3 credits**
Identification, adaption 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 in GR; Fall of every year EL.
- 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 in GR; Fall and Spring of every year EL.
- 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 in GR; Fall of every year EL.
- 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 in GR; Spring of every year EL.
- PLP 104 Applied Plant Pathology for Ornamentals & Turf 3 credits**
Diseases of woody ornamentals and turf grasses. Offered Fall of odd years in GR.
- 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. Offered every semester of every year.

Elective Courses:

- AT 290 Independent Study in Ornamental Horticulture variable credits (1-4)**
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 AT 290. Offered every semester of every year.
- HRT 111 Landscape Design 3 credits**
Landscape design techniques, plant selection, plant/site interaction, relationship between design and planning, construction materials and design specifications. Offered Spring of even years in GR; Spring of every year EL.
- HRT 218 Landscape Irrigation 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. Offered Spring of even years in GR; Spring of every year EL.
- HRT 475 Study Abroad 4 credits minimum**
Multiple programs exploring the green and agricultural industries in various countries around the world. See your MSU advisor for more details.