

GRCC and MSU

LANDSCAPE and LAWN MANAGEMENT PROGRAM

MSU Landscape & Lawn Management Certificate

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GRAND RAPIDS COMMUNITY COLLEGE COURSES

Required - One of the following:

BA 101	Business and Technical English I	3
EN 100	College Writing	3
EN 101	English Composition	3

Required:

BA 103	Introduction to Business	4
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Required - Two courses from the following:

BA 156	Accounting Fundamentals*	3
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OR

BA 256	Principles of Accounting 1*	4
BA 172	Sales	3
BA 174	Advertising	3
BA 183	Supervision	3
BA 270	Marketing	3
BA 283	Business Management	3

*NOTE: If taking an Accounting course, you may choose only one to satisfy the business credit requirements.

Required:

BI 103	General Botany	4
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Required – One of the following:*

BA 145	Computer Applications in Business	4
CO 101	Intro to Computer Applications	2
CO 155	Word	2
CO 156	Excel	2

*NOTE: CO 151 AND CO 153 if previously taken

Required - One of the following:*

MA 104	Elementary Algebra	4
MA 105	Basic Geometry	4
MA 107	Intermediate Algebra	4
TE 103	Mathematics	4
TE 104	Advanced Technical Mathematics	3

*NOTE: MA 003 may be a prerequisite for the above courses based on student's math background

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 491	Plant Diseases	3

Required Internship:

AT 293	Placement Training	3
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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 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

4-13-06

LANDSCAPE AND LAWN MANAGEMENT PROGRAM

MSU COURSES (24 Credits Minimum)

Required Courses:

- CSS 210 Fundamentals of Soil and Landscape Science** (Fall of Even years) **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.
- CSS 232 Introduction to Turfgrass Management** (Spring of Odd years) **3 credits**
Turfgrass management principles, utilization, identification, and establishment. Exploration of turfgrass responses to various cultural practices.
- ENT 111 Basics of Applied Entomology** (Fall of Even Years) **2 credits**
Basic insect biology, principles of integrated pest management, and the major pests of woody ornamentals, herbaceous perennials, turfgrass, and commercial greenhouses.
- HRT 211 Landscape Plants I** (Fall of Even years) **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.
- HRT 212 Landscape Plants II** (Fall of Odd years) **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.
- HRT 213 Landscape Maintenance** (Spring of Odd years) **2 credits**
Principles and practices involved in ornamental plant management. Plant growth and development related to pruning, fertilization, weed control, transplanting; specifications.
- HRT 214 Turf and Landscape Business Management** (Spring of Even years) **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.
- PLP 491 Plant Diseases** (Fall of Odd Years) **3 credits**
Diseases of woody ornamentals and turf grasses.

Internship:

- AT 293 Placement Training** **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 on requirements and enrollment procedures for this course.

Elective Courses: (4 credits minimum)

- AT 290 Independent Study in Ornamental Horticulture** (Fall, Spring, and Summer every year) **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.
- 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 475 Study Abroad** (Summer Semester) **4 credits**
This program introduces students to production agriculture, horticulture and turfgrass practices in England, Scotland, and Ireland. Field trips include visits to farms, gardens, food processing plants, agribusinesses, natural resource sites, golf courses, and other sports turf venues. The program also includes visits to many cultural and historical sites throughout the area.