

Landscape Techniques - Environmental

Section B.102

5/2/2013

Ontario College Certificate (1 Year - 2 Semesters) (5005)

705.759.6700 : 1.800.461.2260 : www.saultcollege.ca : Sault Ste. Marie, ON, Canada



PROGRAM OVERVIEW

Students who enrol in this program will gain basic knowledge and practical skills relating to landscaping and horticulture with an emphasis on environmental sustainability. Graduates will be in a position to assist with the implementation horticulture and landscape plans using contemporary tools and techniques. Graduates from this program may use the credential, knowledge and skills gained to support other learning and/or find employment with municipalities, garden centers, golf courses, commercial and residential landscaping companies, and nurseries.

ADMISSIONS

MINIMUM ACADEMIC REQUIREMENTS

Ontario Secondary School Diploma, or mature student status.

CAREER PATHS

The graduate has reliably demonstrated the ability to:

- Assist in the application of the basic principles of plant, soil and environmental sciences to complete work in horticulture and landscaping.
- Apply the basic practical horticulture skills to the production of plant materials, including herbaceous plants, woody plants, edibles and turf.
- Apply the basic principles of design and environmental sustainability to horticulture and landscaping.
- Assist in the implementation of basic maintenance procedures for plants, property, and equipment.
- Apply knowledge of plant identification, usage, and maintenance criteria to horticulture and landscaping.
- Assist with the creation of routine horticultural and landscaping plans that promote healthy ecosystems and avoid environmental damage.
- Apply the principles and practical skills of Integrated Pest Management (IPM)* to indoor and outdoor plants.
- Assist in the effective planning, implementation, and conclusion of horticultural and landscaping projects.
- Apply health and safety standards and best practices to workplaces.
- Act in a professional manner, maintain professional relationships, and communicate effectively with clients, co-workers, supervisors, and others.

OTHER INFORMATION

This program is suspended for Fall 2013

For more information contact Program Coordinator Valerie Walker at 705.759.2554, ext 2464 or email valerie.walker@saultcollege.ca

PROGRAM OF STUDY

SEMESTER 1

CMM115-3 Communications I
LDT100-3 Nursery Management
LDT101-4 Plant Identification I (Trees and Shrubs)
LDT102-3 Plant Science and the Environment I
LDT103-3 Environmental Landscape Design I
LDT104-3 Entomology
POL110-3 Introduction to Canadian Government

SEMESTER 2

LDT200-3 Turf Management
LDT201-4 Plant Identification II (Annuals and Perennials)
LDT202-3 Environmental Pest Management
LDT203-3 Landscape Construction I
LDT204-3 Plant Science and the Environment II
LDT205-3 Environmental Landscape Design II

Course Descriptions

Semester 1

Communications I (CMM115) (3 credits)

The focus of this course is paragraph writing. You will produce effective, college-level expository/response paragraphs by developing analytical skills to select and properly integrate electronic and other research materials. Writing components such as rhetorical modes, grammar, sentence structure, paragraph development, editing, and referencing are included.

Nursery Management (LDT100) (3 credits)

This course will provide students with the skills and knowledge to begin their own outdoor nurseries. Propagation and commercial growing techniques for a wide range of trees, shrubs and herbs will be the main focus.

Plant Identification I (Trees and Shrubs) (LDT101) (4 credits)

This course will provide a systematic study of structural characteristics of trees and shrubs (including ornamentals), the identification of Canadian species by leaf features, their relationships to one another and recognition of their dynamic role in ecosystem ecology. Coniferous species will be studied in considerable detail including twig, bark and growth characteristics.

Plant Science and the Environment I (LDT102) (3 credits)

Taxonomic nomenclature of plant parts from basic cell structure to specialized tissues and their functions. Introduction to ecological soil organisms and their functions in soils related to healthy plant growth.

Environmental Landscape Design I (LDT103) (3 credits)

Students will develop an understanding of basic design principles and the application of these principles to landscape design.

Entomology (LDT104) (3 credits)

This course focuses on insect classification, reproduction, damage effect on plants, control, biological and chemical and inter-relationships between insects and disease. The student will study the hosts, range, life cycle, feeding type and control of problem insects, with emphasis on the immature (feeding) stage of development.

Introduction to Canadian Government (POL110) (3 credits)

This course is designed to provide students with an overview of Canadian government. The key structures of government at all levels will be reviewed; however, the primary focus will be on the federal and provincial levels. Students will become cognizant of the impact of government on their lives and how their participation in the system can affect change.

Semester 2**Turf Management (LDT200) (3 credits)**

Native species of grasses are efficient eco-system friendly species that can provide more “green” alternatives to traditional turf areas. The focus of this course is to study the species and the management of common and new types of turf areas.

Plant Identification II (Annuals and Perennials) (LDT201) (4 credits)

This course will cover a wide variety of annuals and perennials their place in the gardens, planning and planting formal and mass plantings.

Environmental Pest Management (LDT202) (3 credits)

Since pesticides are harmful to the environment this course will focus on alternative methods that can be used to manage for both insect pests and pathological diseases. The student will learn the differences between abiotic and biotic disease and control.

Landscape Construction I (LDT203) (3 credits)

Students will be introduced to the safe operation of a variety of hand and power tools used in horticulture and landscaping. Maintenance equipment for managing various types of grounds keeping such as turf management equipment, hedge trimmers, clippers and other hand tools.

Plant Science and the Environment II (LDT204) (3 credits)

This course will study soil organisms and the carbon to nitrogen ratio, essential element development and availability processes including elemental properties and their chemical relationships in plant functions.

Environmental Landscape Design II (LDT205) (3 credits)

Students will apply design principles to assignments pertaining to wetland reclamation, and other restoration and remediation issues.