

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Horticulture and Groundskeeper
CODE NO. : NRT 145 **SEMESTER:** 2
PROGRAM: Natural Environment and Outdoor Studies
AUTHOR: Bob Knudsen
DATE: Jan 2009 **PREVIOUS OUTLINE DATED:** Feb 2008
APPROVED:

CHAIR DATE
TOTAL CREDITS: 3
PREREQUISITE(S): NONE
HOURS/WEEK: 3

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For additional information, please contact Brian Punch, Chair
The School of the Natural Environment, Technology & Skilled Trade
(705) 759-2554, Ext.2681

I. COURSE DESCRIPTION:

This practical course will provide the student with a general understanding of horticulture and groundskeeping principles and procedures that are to be carried out over the course of a year, with both private and commercial application considered.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Beginning with the basics of soil sciences.

Potential Elements of the Performance:

- Essential elements for plant growth
- Soil structures
- How plants feed and utilize soil nutrients
- pH and its relationship with essential nutrients and basic plant functions
- Some microorganisms and their relationship and functions in soils that influence plant health and growth
- Composting and nitrogen fixing bacteria
- The carbon to nitrogen ratio

This learning outcome will constitute approximately 20% of the course's grade

2. Study of the practical use of fertilizers.

Potential Elements of the Performance:

- What do fertilizer guaranteed analyses mean
- When to use each type of fertilizer and which fertilizer
- Organic versus chemical fertilizers
- Soilless mixtures versus soil mixtures as growing mediums
- Grow your own seedlings

This learning outcome will constitute approximately 10% of the course's grade

3. **Horticulture Plant Identification**

Potential Elements of the Performance:

- Learning ten annual bedding plants
- Learning ten species of perennial plants
- Learning ten shrub species
- Learning ten tree species
- Selecting exotic non-invasive horticultural species and protecting the environment

This learning outcome will constitute approximately 20% of the course's grade

4. **Turf Management**

Potential Elements of the Performance:

- Different types of turf (grass species) and uses
- Fertilizers and pesticide use in turf management
- Tools, machinery and their uses
- Site preparation for seeding and sodding

This learning outcome will constitute approximately 10% of the course's grade

5 **Aesthetic Landscaping**

Potential Elements of the Performance:

- Design a landscape plan for a Provincial Park gatehouse
- Visits to local greenhouses both commercial and municipal

This learning outcome will constitute approximately 10% of the course's grade

III. TOPICS:

1. Soil Sciences
2. Soils and Fertilizers
3. Plant Identification
4. Turf Management
5. Aesthetic Landscaping

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Seed Catalogues e.g. Vesey's Seeds, Ontario Seed Company

Tree and Shrub Catalogues e.g., Brookdale Treeland Nurseries

Internet Resources

V. Additional Resources

Donahue, Roy L., Shickluna, John C., Robertson, Lynn S. 1971. SOILS An Introduction to Soils and Plant Growth. Prentice-Hall Inc., New Jersey.

VI. EVALUATION PROCESS/GRADING SYSTEM:

<give breakdown of tests/assignments and their weights relative to calculating the final grade for the course>

The following semester grades will be assigned to students:

6.

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	

U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without academic penalty.

VII. SPECIAL NOTES:

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

Retention of course outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of "academic dishonesty" in *Student Code of Conduct*. Students who engage in academic dishonesty will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course outline amendments:

The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

Tuition Default

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of March will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default. Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.

VIII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit Form from the program coordinator (for course-specific courses), or the course coordinator (for general education courses), or the program's academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.