



COURSE OUTLINE

NRT0145

Prepared: Bob Knudsen Approved: Sherri Smith

Course Code: Title	NRT0145: HORTICULTURE GROUNDSKEEPER						
Program Number: Name	1120: COMMUNITY INTEGRATN						
Department:	C.I.C.E.						
Semester/Term:	17F						
Course Description:	Students will receive training in the care and maintenance of grasses, flowers, trees, shrubs and invasive plants associated with managed and manicured landscapes. Practical experience with appropriate equipment in mowing, trimming, watering, planting and transplanting, pest management and pruning will be emphasized.						
Total Credits:	3						
Hours/Week:	3						
Total Hours:	45						
Essential Employability Skills (EES):	<p>#1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.</p> <p>#2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>#4. Apply a systematic approach to solve problems.</p> <p>#5. Use a variety of thinking skills to anticipate and solve problems.</p> <p>#6. Locate, select, organize, and document information using appropriate technology and information systems.</p> <p>#7. Analyze, evaluate, and apply relevant information from a variety of sources.</p> <p>#8. Show respect for the diverse opinions, values, belief systems, and contributions of others.</p> <p>#9. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.</p> <p>#10. Manage the use of time and other resources to complete projects.</p> <p>#11. Take responsibility for ones own actions, decisions, and consequences.</p>						
Course Evaluation:	Passing Grade: 50%, D						
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>Labs/Assignments</td> <td>50%</td> </tr> <tr> <td>Tests</td> <td>50%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Labs/Assignments	50%	Tests	50%
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COURSE OUTLINE

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2

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Course Outcomes and Learning Objectives:

Upon successful completion of this course, the CICE student, with the assistance of a Learning Specialist will acquire varying levels of skill development relevant to the following learning outcomes:

Course Outcome 1.

1. Beginning with the basics of soil sciences.

Learning Objectives 1.

- 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

Course Outcome 2.

2. Study of the practical use of fertilizers and the environment.

Learning Objectives 2.

- 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 geranium cuttings
- Grow your own seedlings

Course Outcome 3.

3. Horticulture Plant Identification



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Learning Objectives 3.

- 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

Course Outcome 4.

4. Turf Management

Learning Objectives 4.

- 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

Course Outcome 5.

5. Aesthetic Landscaping and Propagation

Learning Objectives 5.

- Design a landscape plan for a Provincial Park gatehouse
- Visits to local greenhouses both commercial and municipal
- Grow edible seed plants
- Propagate plants from cuttings

CICE Modifications:

Preparation and Participation

1. A Learning Specialist will attend class with the student(s) to assist with inclusion in the class and to take notes.



COURSE OUTLINE

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4

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2. Students will receive support in and outside of the classroom (i.e. tutoring, assistance with homework and assignments, preparation for exams, tests and quizzes.)
3. Study notes will be geared to test content and style which will match with modified learning outcomes.
4. Although the Learning Specialist may not attend all classes with the student(s), support will always be available. When the Learning Specialist does attend classes he/she will remain as inconspicuous as possible.

A. Further modifications may be required as needed as the semester progresses based on individual student(s) abilities and must be discussed with and agreed upon by the instructor.

B. Tests may be modified in the following ways:

1. Tests, which require essay answers, may be modified to short answers.
2. Short answer questions may be changed to multiple choice or the question may be simplified so the answer will reflect a basic understanding.
3. Tests, which use fill in the blank format, may be modified to include a few choices for each question, or a list of choices for all questions. This will allow the student to match or use visual clues.
4. Tests in the T/F or multiple choice format may be modified by rewording or clarifying statements into layman's or simplified terms. Multiple choice questions may have a reduced number of choices.

C. Tests will be written in CICE office with assistance from a Learning Specialist.

The Learning Specialist may:

1. Read the test question to the student.
2. Paraphrase the test question without revealing any key words or definitions.
3. Transcribe the student's verbal answer.
4. Test length may be reduced and time allowed to complete test may be increased.

D. Assignments may be modified in the following ways:

1. Assignments may be modified by reducing the amount of information required while maintaining general concepts.
2. Some assignments may be eliminated depending on the number of assignments required in the particular course.

The Learning Specialist may:



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1. Use a question/answer format instead of essay/research format
2. Propose a reduction in the number of references required for an assignment
3. Assist with groups to ensure that student comprehends his/her role within the group
4. Require an extension on due dates due to the fact that some students may require additional time to process information
5. Formally summarize articles and assigned readings to isolate main points for the student
6. Use questioning techniques and paraphrasing to assist in student comprehension of an assignment

E. Evaluation:

Is reflective of modified learning outcomes.

NOTE: Due to the possibility of documented medical issues, CICE students may require alternate methods of evaluation to be able to acquire and demonstrate the modified learning outcomes

Date:

Wednesday, September 6, 2017

Please refer to the course outline addendum on the Learning Management System for further information.