



COURSE OUTLINE

NRT031

Prepared: Brian Anstess Approved: Sherri Smith

Course Code: Title	NRT031: FALL FIELD CAMP - 1ST YEAR	
Program Number: Name	1120: COMMUNITY INTEGRATN	
Department:	C.I.C.E.	
Semester/Term:	17F	
Course Description:	<p>Fall Field Camp introduces a variety of field skills essential to field technicians. This course consists of 4 consecutive days in a wilderness setting. Students will be exposed to a bush camp experience where they will be prepared to safely work and live. Students will pitch their own tents, gather firewood and perform duties related to a bush camp operation.</p> <p>In addition, there are a series of 6 field exercises that all students will participate in. Navigating with compass, GPS, satellite imagery and topographic maps are practiced. Instruments used in forest measurements will be demonstrated and students will conduct a survey of a forested area. Students will be introduced to the use and safe operation of firefighting equipment such as fire pumps, hoses and back pack pumps. Students will conduct a stream assessment by investigating chemical, physical and biological parameters. Students will use a variety of methods to collect terrestrial insects as well as categorize specimens.</p>	
Total Credits:	2	
Hours/Week:	2	
Total Hours:	30	
Essential Employability Skills (EES):	<p>#3. Execute mathematical operations accurately. #5. Use a variety of thinking skills to anticipate and solve problems. #7. Analyze, evaluate, and apply relevant information from a variety of sources. #8. Show respect for the diverse opinions, values, belief systems, and contributions of others. #10. Manage the use of time and other resources to complete projects. #11. Take responsibility for ones own actions, decisions, and consequences.</p>	
General Education Themes:	Personal Understanding Science and Technology	
Course Evaluation:	Satisfactory/Unsatisfactory	
Evaluation Process and	Evaluation Type	Evaluation Weight



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Grading System:

Attendance and Participation (S/U)	100%
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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.

Use a magnetic hand compass and navigate to within 5% accuracy of the destination.

Learning Objectives 1.

- identify the parts of a compass
- understand and set magnetic declination on a compass
- be able to use flagging tape in order to travel in a straight line

Course Outcome 2.

Measure distances using a 50 m rope to within 0.5% accuracy.

Learning Objectives 2.

- determine pacing factor and be able to pace distances
- understand the measurement divisions for a 50 m rope
- be able to maintain and properly store equipment
- complete a closed traverse using a compass and 50 meter rope to a specified accuracy, determine area, calculate percent error compared to a GPS traverse

Course Outcome 3.

Use satellite imagery as well as an OBM map to travel from one location to another using a magnetic hand compass.

Learning Objectives 3.



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- understand scales of photographs and maps
- identify major topographical and cover type features on maps and imagery
- be able to measure distances and directions on maps and imagery

Course Outcome 4.

Identify native trees and shrubs from foliage or cone characteristics

Learning Objectives 4.

- collect cones and foliage from coniferous trees
- name the native using approved botanical names

Course Outcome 5.

Safely use firefighting equipment including fire pumps, back pack pumps and fire hose.

Learning Objectives 5.

- demonstrate safe use and operation of water pumps and hose used in forest fire fighting operations
- correctly roll fire hose
- become proficient in the use of a soft backpack pump

Course Outcome 6.

Collect and categorize terrestrial insects

Learning Objectives 6.

- demonstrate effective use of a variety of methods for the collection of terrestrial insects
- accurately document & categorize insect specimens



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Course Outcome 7.

Conduct a stream assessment

Learning Objectives 7.

- accurately assess chemical and physical parameters of a stream including dissolved oxygen, pH, alkalinity, carbon dioxide, total dissolved solids and turbidity
- use proper techniques to collect and examine aquatic invertebrates using dip nets and surber samplers
- calculate a diversity index for the site using aquatic invertebrates
- complete field forms neatly and accurately

Course Outcome 8.

Conduct a forest inventory survey

Learning Objectives 8.

- complete a dot tally and record legible field notes
- measure and record tree diameters using calipers and diameter tapes
- measure tree heights using clinometers
- measure the age of trees with an increment corer and count growth rings

Course Outcome 9.

Operate a canoe using appropriate canoe strokes to navigate a water course to a specified destination

Learning Objectives 9.

- in cooperation with canoeing partner, execute a draw, sweep, pry or bow stroke where appropriate and travel to destination
- apply map scale to estimate distances traveled



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Course Outcome 10.

Safely live and work in a bush camp

Learning Objectives 10.

- properly set up a 2-man tent
- demonstrate proper use of sleeping bags and sleeping pads
- store food, set up and operate a bush camp to minimize the potential for bear-human conflict
- use proper hygiene in the bush
- safely collect and burn firewood
- demonstrate safe use of portable generators, tent heaters and electrical lighting
- perform a circle check on a van or motorized vehicle
- maintain a positive outlook and be respectful towards others
- demonstrate the importance of safety, attitude and teamwork when working and living in the bush
- demonstrate a respectful attitude towards the environment

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.
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.



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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:

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



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outcomes

Date:

Wednesday, September 6, 2017

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