



COURSE OUTLINE: NET317 - FALL FIELD EXERCISES

Prepared: Gerard Lavoie / Bob Knudsen

Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Course Code: Title	NET317: FALL FIELD EXERCISES
Program Number: Name	5221: NAT ENVIRONMENT TY
Department:	NATURAL RESOURCES PRG
Academic Year:	2022-2023
Course Description:	This course is composed of four days of outdoor activities to take place in a field setting. Each student team will be required to plan and set a detailed ecosystem inventory of a selected natural area. Emphasis will be placed on cooperative performance and research quality data collection and recording.
Total Credits:	2
Hours/Week:	2
Total Hours:	28
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
Vocational Learning Outcomes (VLO's) addressed in this course:	<p>5221 - NAT ENVIRONMENT TY</p> <p>VLO 1 Collect, analyze, interpret and report on data from representative biological and environmental samples.</p> <p>VLO 2 Utilize natural resources information technology equipment to assemble, analyze and present identified ecosystem components for purposes of conserving and managing natural resources.</p> <p>VLO 3 Apply the basic concepts of science to natural resource conservation and management.</p> <p>VLO 4 Plan, design, implement and participate in the maintenance of natural environment assessments.</p> <p>VLO 5 Apply eco-site conservation and management principles</p> <p>VLO 7 Ensure all work is safely completed in adherence to occupational health and safety standards.</p> <p>VLO 10 Communicate technical information accurately and effectively in oral, written, visual and electronic forms.</p>
Essential Employability Skills (EES) addressed in this course:	<p>EES 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>EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.</p> <p>EES 3 Execute mathematical operations accurately.</p> <p>EES 4 Apply a systematic approach to solve problems.</p> <p>EES 5 Use a variety of thinking skills to anticipate and solve problems.</p>



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	EES 6	Locate, select, organize, and document information using appropriate technology and information systems.
	EES 7	Analyze, evaluate, and apply relevant information from a variety of sources.
	EES 8	Show respect for the diverse opinions, values, belief systems, and contributions of others.
	EES 9	Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
	EES 10	Manage the use of time and other resources to complete projects.
	EES 11	Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:	Satisfactory/Unsatisfactory & A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
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Other Course Evaluation & Assessment Requirements:	Academic success is directly linked to attendance. Missing more that 1/3 of the course hours in a semester shall result in an 'F' Grade for the course.
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Course Outcomes and Learning Objectives:	<table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>1. Gain an understanding of industrial site reclamation processes</td> <td>1.1 Exposure to a decommissioned uranium reclamation site. 1.2 Learn how surface water can be treated successfully for return into the environment 1.3 Understand concepts of Land Stewardship. 1.4 Display knowledge of Uranium mining history in Northern Ontario.</td> </tr> <tr> <th>Course Outcome 2</th> <th>Learning Objectives for Course Outcome 2</th> </tr> <tr> <td>2. Organize and conduct field surveys.</td> <td>2.1 Identify rare vascular plants found on alvars 2.2 Gain an understanding of the ecology of rare vascular plants. 2.3 Measure and record rare plant species and collect inventory data.</td> </tr> <tr> <th>Course Outcome 3</th> <th>Learning Objectives for Course Outcome 3</th> </tr> <tr> <td>3. Gain exposure to sustainable initiatives on industrial sites</td> <td>3.1 Learn how byproduct & waste power generation work. 3.2 Understand green initiatives at work within industrial sites. 3.3 Exposure to reclamation and sustainable extraction processes.</td> </tr> <tr> <th>Course Outcome 4</th> <th>Learning Objectives for Course Outcome 4</th> </tr> <tr> <td>4. Perform in a group environment.</td> <td>4.1 Show ability to cooperate, work effectively with others. 4.2 Carry out field surveys and summarize results. 4.3 Be on time and ready to go before scheduled departure times 4.4 Act courteously and respect the rights of others throughout the five day trip. 4.5 Abide by all safety procedures and policies for every tour and visitation.</td> </tr> <tr> <th>Course Outcome 5</th> <th>Learning Objectives for Course Outcome 5</th> </tr> </tbody> </table>	Course Outcome 1	Learning Objectives for Course Outcome 1	1. Gain an understanding of industrial site reclamation processes	1.1 Exposure to a decommissioned uranium reclamation site. 1.2 Learn how surface water can be treated successfully for return into the environment 1.3 Understand concepts of Land Stewardship. 1.4 Display knowledge of Uranium mining history in Northern Ontario.	Course Outcome 2	Learning Objectives for Course Outcome 2	2. Organize and conduct field surveys.	2.1 Identify rare vascular plants found on alvars 2.2 Gain an understanding of the ecology of rare vascular plants. 2.3 Measure and record rare plant species and collect inventory data.	Course Outcome 3	Learning Objectives for Course Outcome 3	3. Gain exposure to sustainable initiatives on industrial sites	3.1 Learn how byproduct & waste power generation work. 3.2 Understand green initiatives at work within industrial sites. 3.3 Exposure to reclamation and sustainable extraction processes.	Course Outcome 4	Learning Objectives for Course Outcome 4	4. Perform in a group environment.	4.1 Show ability to cooperate, work effectively with others. 4.2 Carry out field surveys and summarize results. 4.3 Be on time and ready to go before scheduled departure times 4.4 Act courteously and respect the rights of others throughout the five day trip. 4.5 Abide by all safety procedures and policies for every tour and visitation.	Course Outcome 5	Learning Objectives for Course Outcome 5
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	5. Practice accurate field data collection.	5.1 Practice good field data collection for managing data for future assessment and report writing.
Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Participation	100%
Date:	June 30, 2022	
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.	