

COURSE OUTLINE: NET207 - NATURAL URBAN ENVIRO

Prepared: Elisa Muto

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

Course Code: Title	NET207: NATURALIZING URBAN ENVIRONMENTS				
Program Number: Name	5220: NAT ENVIRONMENT TN				
Department:	NATURAL RESOURCES PRG				
Academic Year:	2022-2023				
Course Description:	Due to the rapid pace of urbanization, the benefits of healthy green infrastructure in cities is increasingly recognized and in demand. This course explores the social, economic and environmental impacts of urbanization and introduces strategies to reconnect people and incorporate nature back into cities. Topics in urban forestry and approaches for sustainable greenspace management in urban areas will be a major focus. Students will conduct an urban tree inventory and will perform the steps necessary to plan a naturalization project for a local urban greenspace. Emphasis will be on the promotion of native plant community assemblages and wildlife biodiversity.				
Total Credits:	3				
Hours/Week:	3				
Total Hours:	42				
Prerequisites:	There are no pre-requisites for this course.				
Corequisites:	There are no co-requisites for this course.				
Substitutes:	NET254				
Vocational Learning	5220 - NAT ENVIRONMENT TN				
Outcomes (VLO's) addressed in this course:	VLO 1 Collect data from representative biological and environmental samples using routine test procedures.				
Please refer to program web page for a complete listing of program	VLO 2 Utilize natural resources equipment and technology to accurately identify ecosystem components for purposes of conserving and managing natural resources.				
outcomes where applicable.	VLO 3 Apply the basic concepts of science to natural resource conservation and management.				
	VLO 4 Conduct natural environment assessments according to standard field survey methods, including the use of appropriate equipment and materials.				
	/LO 6 Practice principles and ethics associated with natural resource conservation and management issues.				
	VLO 7 Work safely in adherence to occupational health and safety standards.				
	VLO 8 Complete all work in compliance with applicable municipal, provincial and federal standards and guidelines.				
	VLO 10 Perform basic project management support techniques.				
	VLO 11 Communicate technical information accurately and effectively in oral, written and visual forms.				

SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

NET207: NATURALIZING URBAN ENVIRONMENTS

	VLO 13	Apply awareness of natural resources.	f global environmental issues to conservation and management of
Essential Employability Skills (EES) addressed in this course:	EES 1	that fulfills the purpo	rly, concisely and correctly in the written, spoken, and visual form ose and meets the needs of the audience.
	EES 2	Respond to written, communication.	spoken, or visual messages in a manner that ensures effective
	EES 5	Use a variety of thir	nking skills to anticipate and solve problems.
	EES 6	Locate, select, orga and information sys	anize, and document information using appropriate technology stems.
	EES 7	Analyze, evaluate,	and apply relevant information from a variety of sources.
	EES 8	Show respect for th others.	e diverse opinions, values, belief systems, and contributions of
	EES 9		in groups or teams that contribute to effective working e 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.
General Education Themes:	Civic Life		
	Social ar	nd Cultural Understan	ding
	Science	and Technology	
Course Evaluation:	Passing	Grade: 50%, D	
	A minimu		2.0 or higher where program specific standards exist is required
Other Course Evaluation & Assessment Requirements:			linked to attendance. Missing more than 1/3 of the course hours in F` grade for the course.
Course Outcomes and Learning Objectives:	Course	Outcome 1	Learning Objectives for Course Outcome 1
Leaning Objectives.	historica and the econom	nental impacts in	1.1 Define urban sprawl and appreciate the forces that contribute to sprawling patterns in cities. 1.2 Explain how human population growth in cities is predicted to further influence land use and development. 1.3 Discuss the social, economic and environmental impacts of land use and development in cities. 1.4 Discuss current human attitudes towards nature in cities. 1.5 Identify government and municipal responses to urban development.
	Course	Outcome 2	Learning Objectives for Course Outcome 2
	ecosyste the cond	e the urban em and understand ditions that influence ty for species to ities.	2.1 Define urban ecology and describe the urban landscape. 2.2 Apply the principles of ecology to urban ecosystems. 2.3 Understand ecosystem services and how these are important to the health, resiliency and biodiversity of urban ecosystems.

	2.4 Compare/contrast urban and natural environments with respect to climate, hydrology, soil condition, plant and animal community composition and trophic dynamics. 2.5 Discuss the challenges and limitations presented by urban ecosystems and how some flora and fauna adapt to these conditions.
Course Outcome 3	Learning Objectives for Course Outcome 3
Demonstrate an understanding of naturalization in an ecological context and describe methods and strategies used to restore the ecological components of urban landscapes.	3.1 Understand and explain naturalization concepts. 3.2 Understand basic concepts in landscape ecology and how they apply to urban environments. 3.3 Recognize the variety of greenspaces in cities. 3.4 Discuss strategies used to naturalize urban environments and promote and enhance urban greenspaces. 3.5 Discuss potential resistance to naturalization projects in urban environments. 3.6 Discuss approaches to educate people and promote community involvement.
Course Outcome 4	Learning Objectives for Course Outcome 4
Perform the steps necessary to prepare a site plan for an urban naturalization project.	 4.1 Conduct a site inventory to obtain information on existing vegetation and wildlife, soil conditions, microclimate, slope, topography, etc. 4.2 Evaluate site characteristics and identify project goals and objectives. 4.3 Prepare a site plan to identify areas where naturalization projects may be implemented. 4.4 Research and identify potential naturalization techniques. 4.5 Provide recommendations for site improvement. 4.6 Research and select native plant communities suitable for the local site conditions.
Course Outcome 5	Learning Objectives for Course Outcome 5
Appreciate the value of urban forests and identify the main components of an urban forest management plan.	5.1 Discuss the economic, social and ecological values of healthy urban forests and street trees. 5.2 Outline the goals and objectives of an established urban forest management plan. 5.3 Identify the major challenges and potential solutions in urban forestry. 5.4 Conduct a tree inventory. 5.5 Analyze and interpret tree inventory data to determine tree density, species composition and general condition of health. 5.6 Research and provide recommendations for a forest management strategy.
Course Outcome 6	Learning Objectives for Course Outcome 6
Evaluate employment opportunities in urban environments.	Research potential employers offering natural environment related positions in urban areas. Summarize the different types of natural environment jobs that are available in urban areas. Identify specific knowledge and skill sets required for employment in urban environments.

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Assignments	20%
	Course Project	30%
	Discussions	20%
	Quizzes	10%
	Tests	20%
Date:	August 31, 2022	
Addendum:	Please refer to the information.	course outline adder

NET207: NATURALIZING URBAN ENVIRONMENTS