

## COURSE OUTLINE: NET105 - FISH/WILD STUDIES II

Prepared: Ryan Namespetra

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

5212: ADVENTURE RECREATION 5220: NAT ENVIRONMENT TN 5221: NAT ENVIRONMENT TY		
NATURAL RESOURCES PRG		
21W		
This course continues with the further development of fish and wildlife identification skills with particular reference to the biology and life history of featured species. Topics will include common fish and mammals of Ontario. Special emphasis will be placed on species at risk in Ontario and strategies for their protection and recovery. Wildlife tracks and sign will also be investigated and important wildlife parasites and diseases will be discussed.		
3		
3		
45		
There are no pre-requisites for this course.		
There are no co-requisites for this course.		
NRT137		
ADVENTURE RECREATION  Demonstrate clear, concise and industry appropriate written, spoken and visual communication skills.		
Identify, discuss, organize and assess common Flora & Fauna species found throughout ON, including biological and physiological characteristics.		
5220 - NAT ENVIRONMENT TN		
Collect data from representative biological and environmental samples using routine test procedures.		
Utilize natural resources equipment and technology to accurately identify ecosystem components for purposes of conserving and managing natural resources.		
Apply the basic concepts of science to natural resource conservation and management.		
Conduct natural environment assessments according to standard field survey methods, including the use of appropriate equipment and materials.		
Work safely in adherence to occupational health and safety standards.		
Communicate technical information accurately and effectively in oral, written and visual forms.		

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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	Province Status of Ontario they per risk.	ial Committee on the of Species at Risk in (COSSARO), as rtain to species at	speakers.  1.6 Outline the role of recovery plans, recovery teams and recovery action groups to improve the status of a species at risk.  Learning Objectives for Course Outcome 2	
Loaning Objectives.	Nationa Status o Wildlife	ne the role of the I Committee on the of Endangered in Canada NIC) and the	1.1 Discuss the risk categories as defined by COSEWIC. 1.2 Research and report on species at risk in Ontario. 1.3 Outline the process of determining if a species is at risk. 1.4 Review protection legislation for Ontario species at risk. 1.5 Discuss species at risk topics addressed by guest	
Course Outcomes and Learning Objectives:	Course	Outcome 1	Learning Objectives for Course Outcome 1	
Books and Required Resources:		Mammals of the Great Lakes Region by Kurta, A.  Tracking & the Art of Seeing by Rezendes, P.		
Other Course Evaluation Assessment Requirem		Academic success is directly linked to attendance. Missing more than 1/3 of the course hours in a semester shall result in an `F` grade for the course.		
Course Evaluation:	A minim	Passing Grade: 50%, D  A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.		
	EES 11	, ,	for ones own actions, decisions, and consequences.	
	EES 10	•	time and other resources to complete projects.	
	EES 9		in groups or teams that contribute to effective working e achievement of goals.	
	EES 8	Show respect for th others.	e diverse opinions, values, belief systems, and contributions of	
	EES 7	•	and apply relevant information from a variety of sources.	
	EES 4	Apply a systematic	approach to solve problems.	
this course:	EES 2	Respond to written, communication.	spoken, or visual messages in a manner that ensures effective	
Essential Employability Skills (EES) addressed	y EES 1		ly, concisely and correctly in the written, spoken, and visual formose and meets the needs of the audience.	
	VLO 2		urces information technology equipment to assemble, analyze ed ecosystem components for purposes of conserving and esources.	
	VLO 1	environmental sam	erpret and report on data from representative biological and bles.	
		IAT ENVIRONMENT		
		alus and motorized	палэроп едириенс	
	VLO 12		a timely manner in the outdoors using appropriate navigation transport equipment.	

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Identify selected fish species and discuss their biology, life cycles, and ecological value.	2.1 Correctly identify both internal and external anatomical structures of fish and describe their purpose. 2.2 Demonstrate the effective use of bifurcated (dichotomous) keys in order to identify common Ontario fish species. 2.3 Discuss scientific techniques of determining fish age. 2.4 Discuss the ecology of fishes and their role as indicator species.
Course Outcome 3	Learning Objectives for Course Outcome 3
3. Identify common mammals in Ontario based on tracks and signs, scat, study furs, specimens and skulls.	3.1 Identify many Ontario mammal species using images, stud furs and specimens. 3.2 Identify skulls of Ontario mammals using keys. 3.3 Distinguish between common species within an order based on tracks, movements, browsing, droppings, remains of food, method of kill, claw marks or antler scrapes, dens or nests. 3.4 Discuss scat characteristics, track formula and trail pattern of common wildlife. 3.5 Investigate and document 20 wildlife tracks & signs.
Course Outcome 4	Learning Objectives for Course Outcome 4
Discuss the biology, life cycles, ecology and interpretive value of many Ontario wildlife species.	<ul> <li>4.1 Research and report on key biological and ecological features of selected orders/families of wildlife.</li> <li>4.2 Relate the interpretative value of selected mammalian species.</li> <li>4.3 Explain the lifecycles of parasites &amp; diseases of Ontario fis and wildlife.</li> <li>4.4 Identify select parasites &amp; disease by their signs and symptoms, outlining the possible impact to human health.</li> </ul>
Course Outcome 5	Learning Objectives for Course Outcome 5
5. Conduct field surveys to assess wildlife presence.	<ul> <li>5.1 Use tracks and signs in the field to survey wildlife species presence.</li> <li>5.2 Discuss the presence or absence of certain species based on habitat type surveyed.</li> <li>5.3 Discuss and demonstrate knowledge of various types of field surveys used to determine wildlife species presence.</li> </ul>

## **Evaluation Process and Grading System:**

Evaluation Type	<b>Evaluation Weight</b>
Major Assignments	30%
Minor Assignment	15%
Participation	10%
Tests	45%

Date:

June 17, 2020

Addendum:

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

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