

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



**SAULT
COLLEGE**

COURSE OUTLINE

COURSE TITLE: Software For Fish And Wildlife

CODE NO. : NRT 201 **SEMESTER:** 3

PROGRAM: Fish and Wildlife Conservation Technician

AUTHOR: Valerie Walker

DATE: Jan 2011 **PREVIOUS OUTLINE DATED:** Jan 10

APPROVED: "B.Punch"

	<u>CHAIR</u>	<u>DATE</u>
TOTAL CREDITS:	2	
PREREQUISITE(S):		
HOURS/WEEK:	2	

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For additional information, please contact Brian Punch, Chair
School of Natural Environment/Outdoor Studies & Technology Programs
(705) 759-2554, Ext.2681

Course Name

Code No.**I. COURSE DESCRIPTION:**

This course is intended to build on computer skills acquired in earlier courses by using software with specific application to fisheries and wildlife biology and management. Students will gain a deeper understanding of global positioning systems, file management and fish and wildlife applications for presentation managers. Use of spreadsheets to format and analyze field data is covered in some detail. An introduction to database managers is also included. Students are assumed to be competent in the use of word processors.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. ***Use PowerPoint to design an effective fish and wildlife related computer-based slide presentation.***

Potential Elements of the Performance:

- Choose an appropriate fish and wildlife related theme
- Storyboard an effective presentation
- Use text, graphics and charts to create an effective presentation

This learning outcome will count for approximately 15% of the final mark.

2. ***Manage disks and files using Windows Explorer.***

Potential Elements of the Performance:

- Develop a structured approach to managing files and folders
- Open the Windows Explorer
- Create folders
- Copy files between folders
- Move files between folders
- Save files to appropriate folders
- Delete files and folders

This learning outcome will count for approximately 10% of the final mark

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3. ***Use a Global Positioning System receiver and related software to determine UTM coordinates, to collect both track logs and waypoints and to create appropriate maps.***

Potential Elements of the Performance:

- Understand the functional elements of a GPS receiver.
- Use a GPS receiver to determine UTM coordinates in the field.
- Use a GPS receiver to collect track logs
- Use a GPS receiver to collect waypoints in the field
- Download track logs and waypoints to Google Earth Pro
- Upload waypoints from Google Earth Pro to a GPS receiver using Garmen GPS

This learning outcome will count for approximately 15% of the final mark.

4. ***Use Personal Digital Assistants (PDA) to gather field data.***

Potential Elements of the Performance:

- Use a PDA to collect field data
- Transfer data files from a PDA to a PC

This learning outcome will count for approximately 10% of the final mark

5. ***Use a spreadsheet to format and analyze scientific data related to fish and wildlife applications.***

Potential Elements of the Performance:

- Analyze field notes to determine formatting and analysis needs.
- Load field data from tally sheets or from hand-held computers onto spreadsheets
- Use formatting features to present data in an effective, professional manner.
- Work with dates and times in an effective manner.
- Effectively design and use data entry forms
- Use sorting, filtering, functions, formulas, charting, pivot tables and other spreadsheet features to effectively analyze scientific data

This learning outcome will count for approximately 40% of the final mark.

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6. ***Understand the principles of database design, and the uses of database managers.***

Potential Elements of the Performance:

- Demonstrate an understanding of fields and records
- Demonstrate an understanding of database table design
- Demonstrate an understanding of the use of database queries
- Demonstrate an understanding of the use of database reports

This learning outcome will count for approximately 10% of the final mark.

III. TOPICS:

1. Fish and Wildlife Applications for Presentation Software
2. File Management using Windows Explorer
3. Global Positioning Systems
4. Use of Personal Digital Assistants in field data collection
5. Spreadsheets for Fish and Wildlife – Data Analysis and Presentation
6. Introduction to Database Software for Fish and Wildlife

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

None

V. EVALUATION PROCESS/GRADING SYSTEM:

Tests	25%
Assignments	<u>75%</u>
Total	100%

Note: Students must pass the Excel Test in order to pass the course. If the Excel Test is not passed on the first attempt, a rewrite may be allowed, late in the semester. Rewrites will only be allowed for students with good attendance.

NOTE: Assignments will be reduced at a rate of **10% per day** for late submissions for a period of 5 days after the due date. After 5 days, submissions will be valued at zero (0). All labs/assignments and reports must be submitted regardless of lateness to pass the course.

Attendance during field exercises is **MANDATORY**.

Student missing field work without valid, documented reason will risk repeating the course.

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The following semester grades will be assigned to students in postsecondary courses:

Grade	<u>Definition</u>	<i>Grade Point Equivalent</i>
A+	90 – 100%	4.00
A	80 – 89%	
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 – 59%	1.00
F (Fail)	49% and below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

VI. SPECIAL NOTES:

Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located on the portal form part of this course outline.