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 Technician

AUTHOR: Mike Luck, Harold Cooper

DATE: Aug 00   **PREVIOUS OUTLINE DATED:**   June 99

APPROVED:

_____   _____
                                 DEAN   **DATE**

TOTAL CREDITS: 2

PREREQUISITE(S):   EDP 122

LENGTH OF COURSE: 16 WKS   **TOTAL CREDIT HOURS:**   32

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I.   COURSE DESCRIPTION:

This course complements the Computer Applications course by covering software designed specifically for fisheries and wildlife management. Students will gain a further understanding of Global Positioning Systems, advanced file management and fish and wildlife applications of spreadsheet and presentation software. Software specific to Fish and Wildlife such as Ontario Deer Model, population modeling software, aquatic and terrestrial ecosystem assessment programs will be included. This course will be project based.

II.   LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. ***Use a Global Positioning System to determine UTM coordinates and to navigate on water-bodies and in forested areas.***

    Potential Elements of the Performance:
    - Investigate different types of GPS systems
    - Understand functioning elements of a specific GPS unit.
    - Use a GPS unit to determine your location by UTM coordinates in the field.
    - Use a GPS unit to navigate in an outdoor field setting.
    - This outcome will constitute approximately 10% of the final grade.

2. ***Manage diskettes 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 outcome will constitute approximately 10% of the final grade.

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3.   ***Effectively use current software applications specific to fish and wildlife management.***

Potential Elements of the Performance:
- Research current, downloadable, internet software from agencies such as: The Wildlife Society and The American Fisheries Society
- Use the software to input sample data.
- Critique this software and present findings to class
- Gain an understanding of specialized software used by government agencies such as:
  - Ontario Deer Model
  - Deercamp
  - Fishnet
  - Creelsys
  - Rapid Assessment Methodology (RAM)
- This outcome will constitute approximately 30% of the final grade.

4.   ***Use a spreadsheet to format and present 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 portable microprocessors onto spreadsheets
- Use formatting features to present data in an effective, professional manner.
- Work with dates and times in an effective manner.
- Use scientific notation in data analysis
- Use sorting, filtering functions, formulas and other spreadsheet features to effectively analyze scientific data
- This outcome will constitute approximately 30% of the final grade.

5.   ***Use a presentation manager 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 effective presentations with Power Point and web authoring tools.
- This outcome will constitute approximately 20% of the final grade.

III.   TOPICS:

   1.   Global Positioning Systems

   2.   Windows Explorer

   3.   Specialized Fish and Wildlife Software

   4.   Spreadsheet Management

   5.   Presentation Software

IV.   REQUIRED RESOURCES/TEXTS/MATERIALS:

   1. **At least 4-IBM formatted 1.44Mb high density diskettes**
   2. **Other handout materials will be provided.**

V.   EVALUATION PROCESS/GRADING SYSTEM:

Theory Tests (2 of equal value)*	30%
Assignments: (8 of equal value)	70%
GPS	
Windows Explorer	
Spreadsheet and Graphics (2 assignments)	
Fish and Wildlife Software (2 assignments)	
Presentation Software (2 assignments)	
Total:	**100%**

   *Note: Students who are absent from a theory test may write a make-up
           examination at the end of the semester. Other students may be
           eligible for this make up test at the instructor's discretion. The final
           test will encompass all materials that were covered in the course.
           The grade assigned to this final test will replace the of lowest test
           grade previously assigned to the student.

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

Grade	Definition	Grade Point Equivalent
A+	90 - 100%	4.00
A	80 - 89%	3.75
B	70 - 79%	3.00
C	60 - 69%	2.00
R (Repeat)	59% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field placement or non-graded subject areas.	
X	A temporary grade. This is used in limited situations with extenuating circumstances giving a student additional time to complete the requirements for a course (see *Policies & Procedures Manual - Deferred Grades and Make-up*).	
NR	Grade not reported to Registrar's office. This is used to facilitate transcript preparation when, for extenuating circumstances, it has been impossible for the faculty member to report grades.	

VI.   SPECIAL NOTES:

Special Needs:
If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your instructor and/or the Special Needs office. Visit Room E1204 or call Extension 493, 717, or 491 so that support services can be arranged for you.

Retention of course outlines:
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

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      The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

      Substitute course information is available in the Registrar's office.

VII.   PRIOR LEARNING ASSESSMENT:

      Students who wish to apply for advanced credit in the course should consult the instructor.

VIII.   DIRECT CREDIT TRANSFERS:

      Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.