



A: Division: **INSTRUCTIONAL**
 B: Faculty: **HUMANITIES & SOCIAL SCIENCES**
 Department: **ENVIRONMENTAL STUDIES**
 Program: **HABITAT RESTORATION**

Date: **NOVEMBER 1996**
 New Course: **X**
 Revision of Course Information form:

C: **ENVS 202** D: **RESOURCE INVENTORY SKILLS** E: **1.5**

Subject & Course No.	Descriptive Title	Semester Credit
F: Calendar Description: This is part of a series of courses that provide training in the skills and knowledge required for the collection and analysis of resource inventory information. This course examines inventory theory and the characteristics of a good inventory, sampling theory, data modelling and data management.	Summary of Revisions: (Enter date & section) Eg: Section C,E,F&R	

G: Type of instruction: **4 Hrs Per Week/ 7 Weeks Per Semester**

Lecture:	2	Hrs.
Laboratory:	2	Hrs.
Seminar:		Hrs.
Clinical Experience:		Hrs.
Field Experience:		Hrs.
Practicum:		Hrs.
Shop:		Hrs.
Studio:		Hrs.
Student Directed Learning:		Hrs.
Other (Specify):		Hrs.
Total:	4	Hrs.

H: Course Prerequisites:
Program Entrance Requirements:

I: Course Corequisites:
NONE

J: Course for which this Course is a Prerequisite:
NONE

K: Maximum Class Size:
35

L: College Credit Transfer X
 College Credit Non-Transfer
 Non-Credit

M: Transfer Credit: Requested: X
 With ENVS 102 Granted:

Specify Course Equivalents or Unassigned Credit as appropriate:

SFU
 UBC
 UNBC
 UVIC
 Other:

Susan Smythe
 Course Designer(s)
Susan Smythe
 Department Chair

[Signature]
 P. H. Dwyer
 Registrar

Subject and Course Number

N. Textbooks and Materials to be Purchased by Students (Use Bibliographic Form):

Resource Inventory Skills Training Module:

- (1) Soil Inventory Methods for B.C.**
- (2) Report of the Current Inventory Task Force**
- (3) Data Modeling Project**

Complete Form with Entries Under the Following Headings: O. Course Objectives; P. Course Content;
Q. Method of Instruction; R. Course Evaluation

O. Course Objectives

Upon completion of this course, the student should be able to:

1. Describe basic inventory theory.
2. List and describe the characteristics of a good inventory.
3. Define and describe sampling theory concepts.
4. Identify the purpose of an inventory and determine an appropriate sampling procedure.
5. Identify database needs and select an appropriate database design and management protocol.

P. Course Content

1. Introduction to basic inventory theory
 - a) Purpose
 - b) Types of data
 - c) Needs of resource inventory users
2. Characteristics of a good inventory
 - a) Clear, comprehensive, and respectful of resource owners and users
 - b) Inventory design protocols
 - c) Data collection considerations
 - d) Bias and accuracy of statistics
 - e) Documentation of data and procedures
3. Sampling theory
 - a) Randomness, representative numbers, time series
 - b) Continuous versus discrete data
 - c) Quantitative versus qualitative data
 - d) Quadrats, line transects, belt transects

Subject and Course Number

4. Data modelling
 - a) Relationship between data collection and analytical tools (e.g. parametric versus non-parametric analysis)
 - b) Adherence to government standards
 - c) Database design

5. Database management
 - a) Database design
 - b) Database management
 - updates
 - backups
 - directories
 - c) Database documentation

Q. Method of Instruction

This course will employ a number of instructional methods to accomplish its objectives, including some of the following:

1. Lectures
2. Labs
3. Field Work
4. Seminar Presentations
5. Slides, Films
6. Small Group Discussions
7. Group Projects

R. Course Evaluation

The instructor will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be carried out in accordance with Douglas College policy and will be based on some of the following:

1. Laboratory assignments with a combined value of up to 50%.
2. Multiple choice and/or short answer tests with a combined value of up to 50%.
3. Field work with a value of up to 20%.
4. A term project or paper with a value of up to 25%.
5. An individual or group presentation on an assigned topic with a value of up to 15%.

R. Course Evaluation Cont'd.

An example of one possible evaluation scheme would be:

Laboratory Assignments	30%
Midterm Examination	25%
Term Project	20%
Final Examination	<u>25%</u>
	100%

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