



VANCOUVER ISLAND
UNIVERSITY

SCIENCE & TECHNOLOGY

FORESTRY

FRST 212 - Silviculture Assessment
Course Outline

Term: Spring

Lecture/Lab: TBA

Instructors: TBA



COURSE INTRODUCTION

An introduction to silviculture assessments. Topics include: site stratification, data collection and management, BC government standardized silviculture survey procedures, and the determination of stocking status.

SCOPE AND CREDIT

This 1 credit course is accepted towards the Forestry Technology Diploma

COURSE FORMAT (1:0:1)

Learning will be accomplished through a variety of activities, including attending lectures, participating in class discussions & exercises, reading assignments and field labs.

LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

1. Assess the potential hazards of working in the forest; demonstrate **safe work procedures** for carrying out tasks, and use appropriate personal protective equipment requirements and describe emergency procedures.
2. Define and use the **technical terms** applicable to silviculture assessment in conversation with peers and in technical reports.
3. Apply practical **statistical procedures** used in silviculture surveys, and in particular determine sample size, sampling error and confidence intervals for a survey stratum.

4. **Conduct silviculture surveys** (regen/ stocking and free growing) and provide **recommendations** for further silviculture treatments.

5. **Compile survey data** and create project maps complete with silviculture and inventory labels, according to industry standards.

6. Describe how silviculture surveys can be applied/ modified to determine **green-up** requirements and various **stand tending** treatments.



In addition to the above subject-specific learning outcomes, specific program learning outcomes will be covered. Upon successful completion of this course students will have furthered their ability to:

1. Analyze information and think critically (i.e. Evaluate survey data and prescribe silviculture treatments).

2. Work collaboratively with others (i.e. Evaluate class data and generate a prescription for a cut block).

3. Write clearly and concisely (i.e. Prepare concise summaries of the ecology, stocking status and treatment recommendations.)

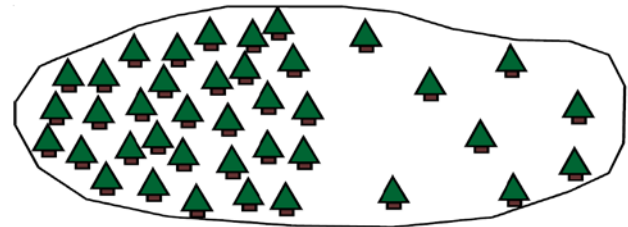
TEXTS & SUPPLIES

Required Texts:

- Stocking and Free Growing Surveys Procedure Manual (Supplied)
- A Field Guide for Site Identification and Interpretation for the Vancouver Forest Region. (LMH 28)

Supplies and Equipment:

Caulk boots, hard hat and cruiser's vest are required for field labs. Pocket scale, field notebook, calculator and compass will also be required. Other field equipment will be supplied.



SAMPLE EVALUATION

Grade Breakout (subject to change):

20%	Assignments (2)
20%	Quizzes (4)
50%	Exam
10%	Professionalism

Quizzes will consist of short answer questions that will cover recent lecture material, and reading assignments. Any missed quizzes will receive a grade of zero.

Marks for "Professionalism" relate to behaviour and activities observed in class and online. Simply put, our

workplace is a *learning environment*. A good mark is attained by positively contributing to the learning environment. And of course, any activity that detracts from it results in a poor mark.

Further details regarding professionalism, as well as the grade scale breakout can be found on the [Forestry Portal](#)

COURSE COMMUNICATIONS

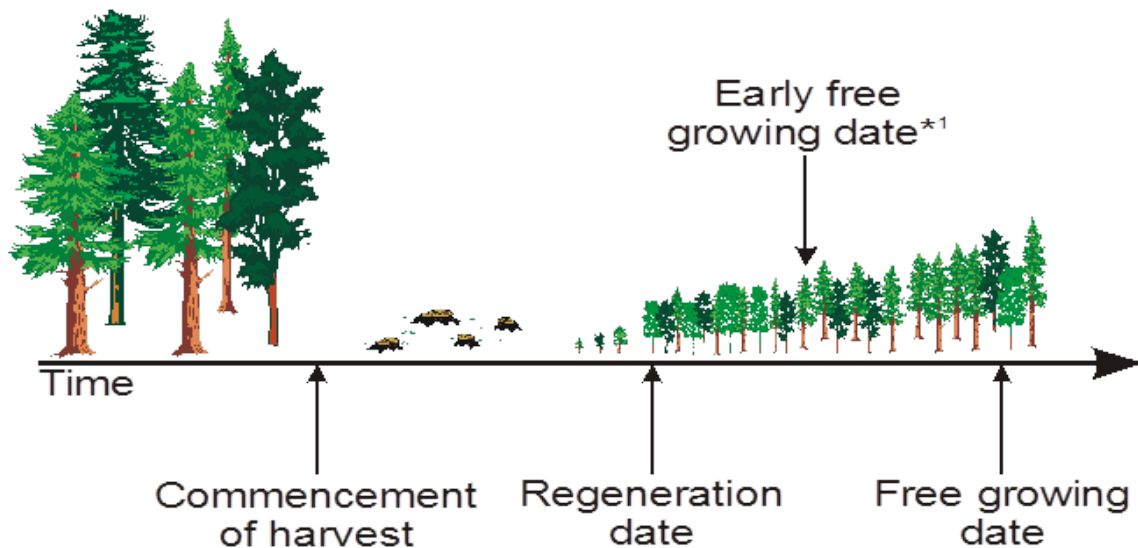
All information regarding the course will be on "D2L" website:

<http://learn.viu.ca>

Check site often for updates.

ACADEMIC POLICIES

For details regarding academic policies refer to the [Forestry Portal](#).



TENTATIVE SCHEDULE (sample)

Week	Topic/Lab
1	
2	
3	
4	Course Intro; Overview of Silviculture Surveys <i>Doing a plot & Filling in the cards</i>
5	<i>Doing a plot & Filling in the cards</i> Collecting pre-survey info; Planning the field survey Stratification & Statistics
6	LAB: Regeneration Surveys - lab
7	Survey Summary & Reporting
8	Study Days
9	Free Growing & Pre-Stand Tending
10	LAB: Free Growing Surveys
11	Green-up Summary
12	Exam
13	
14	