

Grande Prairie Regional College  
Department of Science & Technology  
Course Outline  
Fall 1997

Course: *Silviculture II (FO 3050)*  
Classroom: B207

Instructor: Dr. Weixing Tan  
Office: J210  
Phone: 539-2793

Prerequisites: FO 3130 (Silviculture I)

Course Description: Silviculture is the science and art of growing and tending forest crops. As the second part of silviculture, this course includes: disturbances and forest stand dynamics; silvicultural systems and methods of regeneration; stand tending (including thinning, pruning, fertilisation, and drainage) and quality management; and silvicultural planning and prescription. Current topics in silviculture will be discussed.

Textbook: Smith DM. 1997. *The Practice of Silviculture: Applied Forest Ecology*. 9<sup>th</sup> Edition. John Wiley & Sons.

References: (available in library) Nyland RD. 1996. *Silviculture: Concepts and Applications*. McGraw-Hill.

Oliver CD and Larson BC. 1996. *Forest Stand Dynamics*. John Wiley & Sons.

Matthews JD. 1991. *Silvicultural Systems*. Clarendon Press, Oxford.

Evaluation:	Quizzes/Assignments/Seminars	15%
	Lab Reports	30%
	Midterm Exam	20%
	Final Exam	35%
		-----
		100%

Requirements: Regular attendance to the lectures and participation in classroom discussion are highly recommended.

Grande Prairie Regional College  
Department of Science & Technology  
Laboratory Schedule  
Fall 1997

Course: *Silviculture II* (FO 3050)  
Instructor: Dr. Weixing Tan  
Lab Location: E305

WK	DATE	LAB #	DESCRIPTION
1	04/09	1	Introduction
2	11/09	2	Pre-harvest ecological assessment
3	18/09	2	--- a whole day field lab
4	25/09	2	
5	02/10	3	Mixedwood management & stand tending
6	09/10	3	--- a whole day field lab
8	23/10	3	
9	30/10	4	Disturbance(s) and forest stand development in Alberta
10	06/11	5	Development of regeneration method
11	13/11	6	Regeneration prescription
12	20/11	7	Guest Speaker (TBA)
13	27/11	8	Stand tending prescription
14	04/12	9	Presentations of labs 2, 5, 6, and 8

The detailed lab instruction will be distributed before each lab.

Requirements: Presence at each laboratory for this course is compulsory. A passing grade in the lab is required to pass the course. A medical note from your Doctor is required for all excused absences. Mark will be deducted on the overdue lab report(s) at a rate of 10% per day.

Each student is expected to supply the following at each lab: calculator, pencils, eraser, some paper, and binder to hold data sheets.