	SAULI S	TE. MARIE, ONTARIO			
COURSE OUTLINE					
COURSE TITLE:	Fall Camp -	- 2 nd Year Forestry			
CODE NO. :	NRT 252	SEMESTER:	Three		
PROGRAM:	Forestry Technician				
AUTHOR:	Brent Attwell				
DATE:	August 2015	PREVIOUS OUTLINE DATED:	August 2014		
APPROVED:		Colin Kirkwood	Aug '15		
		Dean	DATE		
TOTAL CREDITS:	2				
PREREQUISITE(S):	none				
LENGTH OF COURSE:	1 week	TOTAL CREDIT HOURS:	40		
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I. COURSE DESCRIPTION:

Students will carry out practical exercises and perfect outdoor skills as they relate to a forest technician. Exercises are drawn from the Trees & Shrubs, Field Orientation, Forest Management and Planning, Soils Analysis, Silviculture 1 & 2, Forest Mensuration, Harvesting, and Tree Marking courses. Students will investigate red pine thinning trials, plant trees and assess planter performance, prepare for the white pine tree marking certification course. The use of pre-commercial saws releasing white pine and red oak. In addition, students will visit various research sites dealing with jack pine productivity.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Navigate accurately and quickly through a forested landscape using mechanical and electronic navigation aids.

Potential Elements of the Performance:

- Properly use a magnetic hand compass with declination set
- Properly use a GPS unit to locate field positions, mark locations and enter field coordinates
- 2. Compare the effects of thinning a plantation at various spacing factors.

Potential Elements of the Performance:

- Measure tree numbers, heights and diameters.
- Establish plots of a designated size and calculate # of trees/ha and volume of trees/ha.
- Understand the red pine plantation thinning process and yellow birch crop tree thinning technique.
- Implement a trial yellow birch crop tree plot.
- 3. Understand and be capable of using the shelterwood system for tree marking white pine stands,

Potential Elements of the Performance:

- Identify defects and diseases;
- Understand crop tree, crown spacing, bole spacing, etc.
- Recognize wildlife values important to maintaining a healthy forest.
- In teams, mark an area using the shelterwood system.

4. Complete a brushing or pre-commercial thinning exercise

Potential Elements of the Performance:

- Mark crop trees to retain using crop tree criteria.
- Safely operate a brush saw following a safety tailboard.
- Audit the performance of other teams based on following guidelines provided.
- 5. Carry out tree planting activities as required on an operational level.

Potential Elements of the Performance:

- Plant forest tree seedlings according to specified standards.
- Assess tree planting according to a specified format.
- Calculate payment of a tree plant operation.
- Accurately mark white pine trees for removal and understand the underlying principles when selecting trees to be harvested.
- Identify defects and wildlife values in tolerant hardwood stands.
- Be familiar with the various methods of site preparation and the impacts of future forest crops.
- 6. Be able to follow instructions and work as part of a cooperative, productive team in the forest.

Potential Elements of the Performance:

- Demonstrate ability to organize and complete work in an efficient and timely manner.
- Demonstrate the ability to work as part of a team.
- Conduct all work in a manner that respects the safety of other crew members.
- Wear all safety equipment (hardhat, safety boots) as required.
- Recognize potential hazards while working in the forest and the steps that can be taken to minimize risks to crew members

III. TOPICS:

- 1. Assessing a red pine thinning trial
- 2. Tree planting

- 3. Tolerant hardwood defects and wildlife values
- 4. White pine tree marking
- 5. Fishing
- 6. Pre-commercial thinning
- 7. Tour of jack pine productivity study (scarification alternatives) and Thessalon First Nation Nursery

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- 8. Tree planting assessment
- 9. Birch crop Tree Release
- 10. Tree measurements

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

- -- Ontario Tree Marking Guide text
- Compass
- Pocket Stereoscopes
- Clipboard
- Pencils/pen/paper
- Calculator
- Hardhat
- Safety boots (2 pair recommended rubber and leather)
- Rain gear, small day pack
- Sleeping bag, pillow
- Extra clothing and personal items
- Pocket knife, flashlight, canteen (water bottle)
- Wrist watch
- Cup or coffee mug
- Prescription medicine if required

V. EVALUATION PROCESS/GRADING SYSTEM:

The following semester grades will be assigned to students:

Grade

Definition

Grade Point Equivalent

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

Students must satisfactorily complete <u>ALL</u> of the following activities; white pine tree marking exercise and test, tree planting, participate in the soils pit description, harvesting audit, Thessalon First Nation Nursery tour and GPS contest in order to obtain a satisfactory (S) grade in this course.

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.

Other:

According to official policy "students are NOT permitted to drive other students to travel destinations". Student vehicles are not permitted at field camp.

VII. COURSE OUTLINE ADDENDUM:

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

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