

## **FORESTRY 434/634 Field Practices in Silviculture: Northern Hardwood Timber Marking Spring 2019**

**Instructor:** Dr. Demchik (CNR 246; mdemchik@uwsp.edu):

### **Class Time:**

Spring Break at Treehaven

### **Course Description**

Field techniques in silviculture, including intermediate treatments of forest stands, forest regeneration techniques, and silvicultural management of forest stands.

### **Text**

No textbook. D2L will have a great deal of resources, you should download all of them for use in the future. This is basically a bibliography for northern hardwood management.

### **Course Objectives**

1. Demonstrate:
  - a. Basic log grading and scaling
  - b. Basic tree grading
  - c. Basic log and tree species identification
2. Discuss methods of using silvicultural techniques to accelerate creation of old growth forest conditions
3. Exhibit the ability to select crop trees and high risk trees
4. Demonstrate the ability to mark a northern hardwood harvest in accordance with a set of landowner goals

### **Grading**

30% professionalism (showed up for everything, participated, listened, learned)

50% graded timber marking

20% reflection paper

### **The Idea behind This**

I intend for this to be the most intense week of learning that any of you have ever had. This likely will be a very exhausting week. Play along with your happy face, everyone will leave happier because of it.

## Tentative Schedule

<b><i>Monday</i></b>	<b><i>8:00 am until 5:00 pm</i></b>	<b><i>Post-Dinner Reflection Session</i></b>
800-900	Log grading and scaling (GLTPA)	
900-1000	Growing stock status (Three systems)	
1000-1030	Break	
1030-1200	The science of uneven aged management	
1200-100	Lunch (get ready for day in the field)	
100-430	Drive to field site (Case)	
	In the field:	
	<ul style="list-style-type: none"><li>• Species identification</li><li>• Autecology of main species</li><li>• Practice growing stock status</li><li>• Practice visual merchandizing</li><li>• Practice tree grading</li><li>• Discuss defects</li></ul>	
430-500	Drive back to Treehaven	
500-600	Eat	
600-800	Reflection and Paint Gun Dissection	
<b><i>Tuesday</i></b>	<b><i>8:00 am until 5:00 pm</i></b>	<b><i>Post-Dinner Reflection Session</i></b>
730-800	Breakfast	
800-920	Drive to Kretz Lumber Company	
920-1200	Grade logs and discuss veneer	
1200-1230	Eat bag lunch	
1230-200	Drive to recently harvested site	
200-230	Drive back to Chilsen Demonstration Forest	
230-400	Discuss Chilsen Demonstration Forest	
400-430	Drive back to Treehaven	
430-500	Buffer	
500-600	Eat	
600-630	Discuss marking for wildlife habitat and restoration	
630-730	Reflection	
<b><i>Wednesday</i></b>	<b><i>8:00 am until 5:00 pm</i></b>	<b><i>Post-Dinner Reflection Session</i></b>
730-800	Breakfast	
800-910	Drive to Argonne Experimental Forest	
910-1200	Managed old-growth silvicultural study (MOSS)	
1200-1230	Eat bag lunch	
1230-130	Drive to our marking site	
130-400	Discuss science behind gaps, locate and paint the gaps	
	Measure all trees marked in gaps- record:	
	DBH	
	Growing stock status	
	Logs (as 8s), bolts, pulp	
400-500	Drive back to Treehaven	

500-600 Eat  
600-700 Reflection  
700-800 Enter data and estimate volumes cut from the gaps

**Thursday 8:00 am until 5:00 pm Post-Dinner Reflection Session**

730-800 Breakfast  
800-900 Drive to marking site  
900-1200 Flagging exercise, includes:

- Select the crop trees (flag in blue)
- Select the high risk (white flag)
- Adjust BA to 80 (orange flag)
  - Measure all trees in flagged area- record:
    1. Keep or cut?
    2. DBH
    3. Growing stock status
    4. Logs (as 8s), bolts, pulp

1200-1230 Eat  
1230-130 Discuss the flagging  
130-400 Paint the flagged areas and remove all flagging  
400-500 Drive back to Treehaven  
500-600 Eat  
600-700 Reflection  
700-900 Enter data and plot pre-harvest and post-harvest size distribution

**Friday 8:00 am until 5:00 pm (you will mark 4 acres each today)**

730-800 Breakfast  
800-900 Drive to site  
900-330 Mark the rest of your parcel (Demchik with spot test)  
330-400 Paintgun cleanup  
400-430 Final reflection  
430-530 Drive back to Trehaven  
You are done

**Monday**

Submit total volumes for your parcel to Dropbox