

Dates		Unit Title	Course Content: Knowledge and Skills			Major Instructional Activities	Assessment
			Technical	Academic	21st Century Skills		
Weeks 1-2 ½ 8/25- 9/9ish	Tree Identification & Physiology	<ul style="list-style-type: none"> -How to use a field guide -Tree Structure Terminology -Leaf, twig, bud, bark, and fruit collection -Increment Bore Analysis 	<ul style="list-style-type: none"> -Communicating -Analyzing -Research -Reading Comprehension -Vocabulary 	<ul style="list-style-type: none"> -Basic Literacy -Critical Thinking and Problem Solving -Creativity and Innovation -Communication and Collaboration -Visual Literacy 	<ul style="list-style-type: none"> -Construct a leaf, twig and bud collection. Acts as their homemade ID resource. -Increment boring and aging of trees accompanied by lab report. -Species of the day- Each student profiles and presents a species to the class. Round-robin until all species are covered. -Most of two days during this unit will be devoted to GPS Level I cert. and another to CPR/First Aid/ 	<ul style="list-style-type: none"> -Tree ID Book workshe -Quizzes on Tree ID, Tr structure -21 Specimen Mounts collection -Lab Report 	
Weeks 2 ½-3 9/10- 9/19	Work Place Safety (equipment chainsaw etc)	<ul style="list-style-type: none"> -Chainsaw safety -Forestry Equipment -Work site awareness 	<ul style="list-style-type: none"> -Communicating -Analyzing -Research -Reading Comprehension -Vocabulary 	<ul style="list-style-type: none"> -Professionalism --Working independently -Working collaboratively -Collaborative communicat -Accountability -Environmental Literacy 	<ul style="list-style-type: none"> -G.O.L. levels 1-3 -UVM Ext. Tractor Safety Course -Class led demos on tree felling and proper -Morrisville Firewood Project 	<ul style="list-style-type: none"> -G.O.L. Certification -Safety quizzes -Demonstrations and Ongoing observation a evaluation -Project participation 	

					<ul style="list-style-type: none"> -Advanced Logger Rescue 9/24/14 -Professional development TBA 9/12/14 	-Logger Rescue Cert.
<p>Weeks 4-8 9/22-10/16</p>	<p>Forest Management</p>	<ul style="list-style-type: none"> -VT Forest Mgt plans and components -Apply Surveying & Mapping Skills -Loggers Education for the Advancement of Professionalism (LEAP) -Forestry Woodlot Project -Forest Mensuration 	<ul style="list-style-type: none"> -Communicating -Analyzing -Research -Reading Comprehension -Vocabulary -Writing Comprehension -Calculating -Problem Solving -Assessing 	<ul style="list-style-type: none"> -Information Literacy -Environmental Literacy -Productivity & Accountability --Professionalism --Working independently -Working collaboratively -Collaborative communication 	<ul style="list-style-type: none"> -Timber Harvesting -Timber cruising -Stand delineation -Stand typing -Silviculture prescriptions -LEAP training -Management practices -Forest measurements -Pacing, board foot calculations 	<ul style="list-style-type: none"> -Ongoing evaluation -Assignments -Field Labs -Quizzes -Class Participation -Attain Industry Cert w LEAP -Complete VT simulate or actual VT Management Plan -Quizzes on timber volumes, land measurements and timber cruising calculations

<p>Weeks 9-18 10/20- 12/23</p>	<p>Timber Harvesting Lab</p>	<ul style="list-style-type: none"> -Forest Mensuration -Harvesting Practices & Methods -Chainsaw safety -Forestry Equipment -Work site awareness 	<ul style="list-style-type: none"> -Communicating -Analyzing -Calculating -Problem Solving 	<ul style="list-style-type: none"> -Professionalism --Working independently -Working collaboratively -Collaborative communication -Accountability -Environmental Literacy 	<ul style="list-style-type: none"> -Proper Job site and landing layout -Skid Road layout -Water quality issues -Erosion control 	<ul style="list-style-type: none"> -In field ongoing assessment -Pop on site quizzes (informal)
<p>Week 15-18 12/1-12/23</p> <p>Simultaneously with harvesting lab</p>	<p>Christmas Wreath production & Christmas Tree sales</p>	<ul style="list-style-type: none"> -Brush clipping -Wreath making -Christmas tree sales 	<ul style="list-style-type: none"> -Communicating -Analyzing -Calculating -Problem Solving 	<ul style="list-style-type: none"> -Professionalism --Working independently -Working collaboratively -Collaborative communication -Accountability 	<ul style="list-style-type: none"> -Wreath making workshop -Production wreath making -Sales to public of both wreath and Christmas trees 	<ul style="list-style-type: none"> -Quality of workmanship -Feedback from public students professional

Week 19-22.5 1/5-1/28	Tree Pest & Disease Winter Twig ID Farmshow Prep -Sugarbush Management	-Identifying Tree Pests & Disease -Management & control of TP&D -ID Tree species based on leafless twigs. -Sugar bush Management theory & Basics	-Analyzing -Research -Reading Comprehension -Vocabulary	-Communication and Collaboration -Visual Literacy -Working independently -Working collaboratively	-Identifying Tree Pests & Disease -Management & control of TP&D -ID Tree species based on leafless twigs. Sugarbush mapping, pipeline theory, installation practices	-Quizzes on TP&D as well as Twig ID -Practice tests from farm show practice tests.
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Week 22.5-33 1/29-4/30	Maple Sugaring	-Sugar bush Management -Pipeline management and Maintenance -Maple sugar production -Sugarhouse management and maintenance	-Communicating -Analyzing -Calculating -Problem Solving	-Professionalism -Working independently -Working collaboratively -Collaborative communication -Accountability	-Tapping Maple trees -Pipeline maintenance and trouble shooting -Running RO machine -Sap Management -Boiling sap -Canning and marketing maple syrup	-Quality of workmanship -Work ethic -Informal field pop quizzes	

		-Maple Syrup Marketing			-End of season sugar equipment maintenance	
Week 34-38 5/1-6/5	-Game of Logging Competition training -Spring forestry competition training and prep -End of year shutdown & project wrap up	-GOL training and practice in the woods and classroom -Setting up for , hosting, training, and competing in the spring forestry completion	-Communicating -Analyzing -Calculating -Problem Solving	-Professionalism -Working independentl -Working collaborative -Collaborative communication -Accountability	-GOL training & practice -Competing at statewide GOL with other tech centers -Host planning, setting up for, training for spring tech center forestry competition	- Informal field pop quizzes -Rankings at statewide competitions