



Program Schedule

Session I – Clemson, SC (March 26 – April 6)

Date	Time	Topic	Speaker
3/26 Mon	1200-1245	Introductions, housekeeping, course objectives.	Brooks
Mon	1245-1315	SALHI “kickoff”.	Bolding, Brooks. Region 9
Mon	1315-1345	Logging safety.	O’Brien
Mon	1345-1400	Gate System – Sale Planning	Brooks
Mon	1400-1515	Overview of cable logging systems, terminology and components of the system, harvest planning.	O’Brien, Brooks
	1515-1530	Break	
Mon	1530-1645	Type of yarders & carriages, deflection.	O’Brien, Brooks
Mon	1645-1700	Discussion.	Brooks
3/27 Tue	0800-0815	Questions	Brooks
Tue	0815-0930	Guylines, anchors, wire rope, landings.	O’Brien, Brooks
	0930-0945	Break	
Tue	0945-1200	Landings, felling, corridor layout.	O’Brien, Brooks
	1200-1300	Lunch	
Tue	1300-1645	Field trip to ground-based logging operation using a Timbco feller-buncher on steep slopes (Joel Thrift Logging).	Bolding
Tue	1645-1700	Discussion	Brooks
3/28 Wed	0800-1700	Field trip to cable logging operation in Franklin, NC. Manual felling, Christy yarder setup, guying, forwarding operation. Profile exercise, field recon for cable setup.	Bolding, Brooks

3/29 Thurs	0800-0815	Questions.	Brooks
Thurs	0815-1000	Payload analysis techniques (computer lab).	Toupin
	1000-1030	Break	
Thurs	1030-1200	Profile analysis using collected field data.	Toupin
	1200-1300	Lunch	
Thurs	1300-1430	LoggerPC, yarder & carriage types, single & multi-span.	Toupin
	1430-1500	Break	
Thurs	1500-1600	Continue LoggerPC	Toupin
Thurs	1600-1645	Intro to MapTech program tool to assist in determining critical profiles	Remington
Thurs	1645-1700	Discussion.	Brooks
3/30 Fri	0800-1700	Field trip to EcoLogger cable logging operation in Franklin, NC.	Bolding, Brooks
4/2 Mon	0800-0815	Questions.	Brooks
Mon	0815-0930	Introduction to helicopter logging – helicopter video.	Toupin
Mon	0930-1000	Helicopter logging design factors. Include flight distance, elevation difference, season, obstructions, flight path requirements, canopy closure, wood availability, logs vs. tree length, landings and landing size, yarding slash and tops, crew size, landing equipment, hooking circle, prescription.	Toupin, Rheinberger
	1000-1030	Break	
Mon	1030-1115	Helicopter logging design factors continued.	Toupin, Rheinberger
Mon	1115-1200	Hooking circle demo and flight path demo. Outside.	Toupin, Rheinberger
	1200-1300	Lunch	
Mon	1300-1330	Introduction to coordinate maker for helicopter logging	Rheinberger
Mon	1330-1400	Paper planning methods	Rheinberger
Mon	1400-1500	Helicopter paper plan	Rheinberger, Toupin
	1500-1530	Break	
Mon	1530-1645	San Dimas T&D presentation, helicopter logging research	Horcher
Mon	1645-1700	Discussion.	Brooks

4/3 Tue	0800-0815	Questions.	Brooks
Tue	0815-0930	Helicopter paper plan presentations by groups and discussion.	Rheinberger, Toupin
	0930-0945	Break	
Tue	0945-1100	Discussion on log value for preparation of a helicopter sale.	Sherar
	1100-1200	Lunch	
Tue	1200-1700	Field trip to mill in Westminister, SC (Thrift Brothers Lumber Co.).	Bolding, Cox, Brooks
4/4 Wed	0800-1700	Field trip	Bolding, Brooks
4/5 Thurs	0800-0815	Questions	Brooks
		<i>Option 1</i>	
Thurs	0815-1700	Field trip to completed helicopter sale near Franklin, NC. Meet with sale administrator. Evaluate log and service landings used. Identify many landing options for the class to evaluate. Evaluate an non-harvested stand and a harvested stand for wood availability and crown canopy. Class to conduct wood availability exercise.	Rheinberger, Brooks, Toupin, O'Brien, Bolding
		<i>Option 2</i>	
Thurs	0815-1700	Field trip to school forest. Identify many landing options for the class to evaluate. Evaluate several stands for wood availability and crown canopy. Class to conduct wood availability exercise.	Rheinberger, Brooks, Toupin, O'Brien, Bolding
4/6 Fri	0800-0815	Questions.	Brooks
Fri	0815-1015	Log Cost (computer lab).	Rheinberger, Toupin
	1015-1030	Break	
Fri	1030-1130	Helicopter sale design, preparation, and appraisal.	Brooks, Toupin
Fri	1130-1200	Close Out of Session I, critique, review of session.	Brooks

**Session II - (May 7 – May 25)
Auburn, AL (Weeks 3-4) & Clemson, SC (Week 5)**

Meet at SRS Auburn, AL at 10:00-----Week 3

Week 3 Meet at SRS Auburn, AL at 10:00			
5/7 Mon	1300-1315	Welcome, housekeeping, revisit course objectives.	Gallagher
Mon	1315-1345	SALHI Session II “kickoff” and Region 8 update.	Williams
Mon	1345-1430	GPS – Types available and use in layout.	Sherar
	1430-1445	Break	
Mon	1445-1515	Use of GIS – Transportation planning exercise.	Brooks
Mon	1515-1645	Transportation planning tie to NEPA (RAP).	Salm, Brooks
Mon	1645-1700	Discussion.	Brooks
5/8 Tue	0800-0930	Turn radius; log truck capabilities, configurations, etc.	Brooks
	0930-0945	Break	
Tue	0945-1100	Road curves and field layout.	Sherar
Tue	1100-1145	Drainage; culvert sizing.	Sherar
	1145-1245	Lunch	
Tue	1245-1330	Culvert sizing exercisel.	Sherar
Tue	1330-1500	Forest road standards; design criteria, surfacing options.	Salm, Brooks
	1500-1515	Break	
Tue	1515-1700	Forest road construction, reconstruction, maintenance, cost.	Salm, Brooks
5/9 Wed	0800-0815	Questions.	Brooks
Wed	0815-0945	BMPs.	Sherar
	0945-1000	Break	
Wed	1000-1100	Temporary stream crossing options, geotextiles	Sherar
Wed	1100-1200	Closure/Obliteration.	Brooks
	1200-1300	Lunch	
Wed	1300-1400	Transportation plan (paper) location classroom exercise.	Brooks et al
Wed	1400-1700	Class work on final project area transportation plan	Brooks et al

5/10 Thurs	0800-0815	Drive to School Forest.	
Thurs	0815-0900	Field layout for curves.	Sherar
Thurs	0900-1530	Forest road location and layout field exercises, three exercises.	Auburn school forest
Thurs	1530-1600	Return to Dixon Center.	
Thurs	1600-1700	Group presentation of locations.	Class Groups
5/11 Fri	0800-1430	Field visit to shovel logging operation, FS timber sale – mech thinning, pulp mill visit, chipping operation, field lunch.	Gallagher
Fri	1500	Leave Andalusia and travel to Auburn, AL.	
Fri	1730	Arrive Auburn, AL.	
5/14 Mon	0800-0815	Questions.	Brooks
Mon	0815-0930	Introduction to ground-based logging systems.	Brooks
	0930-0945	Break	
Mon	0945-1030	Continued - ground-based systems	Brooks
Mon	1030-1230	Pre-harvest planning, logging system design.	Gallagher
	1230-1300	Lunch	
Mon	1300-1430	Harvest planning for ground-based systems.	Gallagher
Mon	1430-1730	Field visit to Caterpillar demo site. Road drainage and stream crossing examples.	Gallagher; Brooks
Mon	1800	Dinner and social at MOT Pavilion.	
5/15 Tue	0800-0815	Questions.	Brooks
Tue	0815-1000	Unit design and layout.	Gallagher
	1000-1030	Break	
Tue	1030-1200	Site impacts; BMPs.	Gallagher
	1200-1300	Lunch	
Tue	1300-1500	Production and costs.	Gallagher; Brooks
	1500-1515	Break	
Tue	1515-1700	Intro to Cut-to-length systems (CTL), Layout, contractual provisions, etc.	Brooks
5/16 Wed	0800-0815	Questions.	
Wed	0815-0915	Contracting options, marketing strategies.	Gallagher, Smidt

Wed	0915-1030	Stewardship contracting/FS options.	Andregg
	1030-1045	Break	
Wed	1045-1145	Animal logging systems.	Smidt
	1145-1245	Lunch	
Wed	1300-1700	SRS Office. Introduction to mechanized fuel reduction equipment. Forest engineering research overview (at FS lab).	Rummer
5/17			
Thurs	0800-1700	Field trip to CTL/animal/mech operations.	Gallagher
5/18 Fri			
	0800-0830	Drive to MOT.	
Fri	0830-1100	Layout for manual felling & skidder, mech felling & skidder, CTL landing/road/trails.	Instructors
	1100-1130	Field Lunch	
Fri	1130-1700	Drive to Clemson, SC.	
Class Project Work at Clemson.			
5/21 Mon			
	0800-0815	Questions.	Brooks
Mon	0815-1000	Timber sale planning and financial analysis tools.	Sherar
	1000-1015	Break	
Mon	1015-1200	Appraisal aspects.	Aubuchon
	1200-1300	Lunch	
Mon	1300-1700	Assignment of final project. Timber sale planning field exercise.	Brooks, Bolding
5/22 Tue			
	0800-1700	Timber sale planning field exercise.	
5/23 Wed			
	0800-1700	Timber sale planning field exercise.	
5/24 Thurs			
	0800-1700	Class room preparation for project presentation.	
5/25 Fri			
	0800-1100	Group - 30 min project presentation to panel.	Groups
Fri	1100-1200	Session/course wrapup/critique/depart.	Brooks