M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments Please note that the scheduled activities may change within the times allocated!!!

Day		Time & Location	Activity	Content	Teacher
Tue	25/3	9.00-10.30 (Björken)	Introduction	Course introduction Subject matter outline, Objectives & learning outcome course design, student responsibilities, activities, study group organization, schedule, literature, learning tools and grading, field trips.	Lenka Kuglerová & Järvi Järveoja (course leaders)
		<mark>10.30-12.00</mark> (Björken)	Survey + Lecture	M1: What is sustainable management? Sustainable management from multiple perspectives	Kuglerová Göran Hallsby
		РМ	Canvas	Introduction to A1 (group and topic arrangements)	
Wed	26/3	All day	Assignment	A1: literature searches, reading, group work	
Thurs	27/3	9.00-11.00 (online)	Lecture	Emerging policy and governance shifts in boreal forestry	Camilla Widmark
		PM	Assignment	A1: literature searches, reading, group work	
Fri	28/3	9.00-12.00 (Bokskogen)	Seminar	A1: The boreal forestry context, group presentations	Kuglerová
		PM	Assignment	A1b: individual written reflection on A1– (deadline by midnight)	
Sat	23/3				
Sun	24/3				
Mon	31/3	9.00-12.00 (Björken)	Lecture	M2: Module intro and assignment instructions – canvas + introductory reading and preparation for quiz on climate change drivers (A2a) Lecture: The role of wood-based products and bioenergy	Gustaf Egnell
		РМ	Reading M2		

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

Tue	1/4	8.00-12.00 (Canvas)	Quiz	Quiz: Climate change drivers and the importance of forests. Quiz opens at 8am and closes at midnight	
		13.00-15.00	Lecture	Report on boreal forestry	Lina Ceder
Wed	2/4	9.00-11.00 (Björken)	Lecture	Carbon balances across the managed forest landscape	Matthias Peichl
		РМ	Assignments	Work on A2 (group work)	
Thu	3/4	9.00-11.00 (Björken)	Lecture	Soil carbon in boreal forest – Impact of forest management	Michael Gundale
		PM	Assignments	Work on A2 (group work)	
Fri	4/4	9.00-12.00 (Björken)	Group discussion	Group debates A2, questions and discussion	Egnell, Gundale
		PM	Assignment	A2b – voluntary assignment (Sunday deadline)	
Sat	5/4				
Sun	6/4				
Mon	7/4	9.00-11.00 (Björken)	Lecture	M3 : From forest to product: Wood formation and how silviculture can affect wood properties	TBD
		PM	Reading		
Tue	8/4	9.00-11.00 (Björken)	Lecture	Wood quality and economical and environmental requirements along the wood supply chain	Carmen Critescu
		РМ	Assignment	Introduction of A3, signing up for pairs, reading, working on questions	
Wed	9/4	9.00-11.00 (Björken)	Lecture	Future development of sawmill production	TBD
		PM	Assignment	A3	
Thu	10/4	AM	Assignment	Preparation for presentations	
		13.00	Assignment	Deadline: Share report with reviewers on Canvas discussion page	
		PM	Assignment		

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

				Working on question	
_				preparation	
Fri	11/4	9.00-12.00 (Björken)	Presentations	Group presentations and discussions	Critescu
		PM	Assignment	A3: submit paired written	
		1 101	Assignment	assignment by Sunday midnight	
				assignment by sunday mangit	
Sat	12/4				
Sun	13/4				
Mon	14/4	9.00-11.00 (Björken)	Lecture	M4: Management and biodiversity	Albin Larsson Ekström
		13.00-15.00	Lecture	M4: More varied forestry A4: Read and work on survey questions for discussion on Friday	<i>Helena Dehlin,</i> Swedish Forest Agency
Tue	15/4	9.00-12.00 (Björken)	Lecture + discussion	Ecological restoration of forests for biodiversity	Albin Larsson Ekström
		РМ	reading	reading	
Wed	16/4	9.00-12.00 (Björken)	Lecture + discussion	Microclimate Case study on bark beetle and microclimate	Caroline Greiser
		PM	Survey	A4: Better than nature silviculture survey	
Thu	17/4	(Canvas)	Assignment (voluntary)	Open book exam (A4a voluntary): Forest management applications and biodiversity (submit by 16.00)	
Fri	18/4	Easter			
Sat	19/4	Easter			
Sun	20/4	Easter			
Mon	21/4	Easter			
Tue	22/4	9.00-9.30 (Björken)	Lecture	M5: Introductions to forest health module and SLU Forest Damage Center	Jonas Rönnberg
		9.30-11.00 (Björken)	Lecture	Root rot	Jonas Rönnberg
		11.00-12.00	Lecture		TBD

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

Image: Section of PM (Canvas) Assignment methods assignments with Jonas possible Assignment with Jonas possible Wed 23/4 9.00-11.00 (Björken) Lectures 7BD Wed 23/4 9.00-12.00 (Björken) Lectures A5 + reading for Wednesday 7BD Thu 24/4 9.00-12.00 (zoom) Lectures Preparation for presentations 7BD Fri 25/4 9.00-12.00 (zoom) Lectures Preparation for presentations Jonas Rönnberg (online) Sate 26/4 13.00-15.00 (zoom) Assignment Infographic presentations Jonas Rönnberg (online) Sate 26/4 1 1 1 1 1 Mon 28/4 9.00-12.00 Lecture M7: Intro to module Water in forested landscapes Kuglerová Tue 29/4 9.00-11.00 Lecture Peatlands and management Järveoja Tue 29/4 9.00-11.00 Lecture Ditching practices in forests, effects of ditching on waters, effects of ditching on waters, effects of ditching on signment Hiza Moher Hosselquist + Olivia Wed 30/4 All day Assignment Reading and preparation for group assignment Thu 1/5 9.00-11.00 Wen work Interparation for group assignment			13.00-15.00 (Björken)			
Wed 23/4 9.00-11.00 (Björken) Lectures Image: Constraint of the second se				Assignment		
Ved23/4 0 $0.00 \cdot 11.00$ (Björken) $+reading$ $-reading for WednesdayTBD-1000000000000000000000000000000000000$			PM (Canvas)		assignments with Jonas possible	
Wed 23/4 9.00-11.00 (Björken) Lectures A5 + reading for Wednesday TBD Thu 24/4 9.00-12.00 (zoom) Lectures A5 + reading for Wednesday TBD Thu 24/4 9.00-12.00 (zoom) Lectures Preparation for presentations TBD Fri 25/4 Assignment Preparation for presentations Jonas Rönnberg (online) Sat 26/4 Assignment Infographic presentations Jonas Rönnberg (online) Sat 27/4 Assignment Mrecoing Kuglerová Mon 28/4 9.00-11.00 Lecture Ditching practices in forests, Effects of ditching on water group assignment Eliza Moher Hizselquist + Olivia Wed 30/4 All day Assignment Reading and preparation for group assignment Eliza Moher Hizselquist + Olivia Thu 1/5 Public holidays Qwn work Infoc						
(Björken) PM Assignment A5 + reading for Wednesday Thu 24/4 0.00-12.00 (200m) Lectures Preparation for presentations TBD Fri 25/4 Assignment Preparation for presentations Jonas Rönnberg (online) Fri 25/4 Assignment Infographic presentations Jonas Rönnberg (online) Sat 26/4 Moneta Moneta Moneta V Moneta Assignment Infographic presentations Jonas Rönnberg (online) Sat 26/4 Moneta Moneta Moneta Jonas Rönnberg Moneta 26/4 Moneta Moneta Jonas Rönnberg Moneta 28/4 9.00-12.00 Lecture Moneta Moneta Moneta 28/4 9.00-11.00 Lecture Peatlands and management Jörveoja Tue 29/4 9.00-11.00 Lecture Reading and preparation for group assignment Fliza Moher Hasselquist + Divisi Thu 1/5 Nullicy Assignment </td <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>				-		
The The $24/4$ $20-12.00$ $(zoom)$ Lectures $Assignment$ TBDFri $25/4$ $Assignment$ Preparation for presentations TBD Fri $25/4$ $Assignment$ Infographic presentations $Jonas Rönnberg$ $(zoom)$ Sat $26/4$ $Assignment$ Infographic presentations $Jonas Rönnberg$ $(zonline)$ Sat $26/4$ $Assignment$ Infographic presentations $Jonas Rönnberg$ $(zonline)$ Sat $26/4$ $Assignment$ MT : Intro to module Water in forested landscapes $Kuglerová$ Mon $28/4$ $9.00-12.00$ LecturePeatlands and management $Järveoja$ Tue $29/4$ $9.00-11.00$ LecturePeatlands and management $Järveoja$ Tue $29/4$ $Assignment$ LectureDitching practices in forests, Effects of ditching on water quality, quantity and ecologyEliza Maher Hosselquist + OliviaWed $30/4$ All dayAssignmentReading and preparation for group assignmentEliza Maher Hosselquist + OliviaThu $1/5$ Public holidays $Assignment$ Reading and preparation for group assignmentEliza Maher Hosselquist + OliviaFri $2/5$ $9.00-11.00$ Own work $Assignment$ $Assignment$ $Assignment$	Wed	23/4		Lectures		TBD
Image:			PM	Assignment	A5 + reading for Wednesday	
Fri 25/4 Image: Amount of the section of the secti	Thu	24/4		Lectures		TBD
Sat26/4AssignmentInfographic presentationsJonas Rönnberg [online]Sut26/4Image Construction (online)Image Construction (online)Image Construction (online)Sut26/4Image Construction (online)Image Construction (online)Image Construction (online)Mon28/49.00-12.00LectureM7: Intro to module Water in forested landscapesKuglerováTue29/49.00-11.00LecturePeatlands and managementJärveojaTue29/49.00-11.00LectureDitching practices in forests, Effects of ditching on water quality, quantity and ecologyEliza Maher Hasselquist + OliviaWed30/4All dayAssignmentReading and preparation for group assignmentEliza Maher Hasselquist + OliviaThu1/5Public holidaysConstruction ConstructionImage Construction (online)Image Construction (online)Fri2/59.00-11.00Own workImage Construction (online)Image Construction (online)Image Construction (online)Fri3/5Image Construction (online)Image Construction (online)Image Construction (online)Image Construction (online)Sat3/5Image Construction (online)Image Construction (online)Image Construction (online)Sat3/5Image Construction (online)Image Construction (online)Image Construction (online)			PM	Assignment	Preparation for presentations	
Sat26/4Image: continue base of the sector of the se	Fri	25/4				
Sat26/4Image: continue base of the sector of the se			13 00-15 00	Assignment	Infographic presentations	lonas Rönnhera
Sun27/4Image: constraint of the section of the				Assignment		-
Mon28/49.00-12.00LectureM7: Intro to module Water in forested landscapesKuglerováTue29/49.00-11.00LecturePeatlands and managementJärveoja13.00 15.0013.00 15.00LectureDitching practices in forests, Effects of ditching on water quality, quantity and ecologyEliza Maher Hasselquist + OliviaWed30/4All dayAssignmentReading and preparation for group assignmentEliza Maher Hasselquist + OliviaThu1/5Public holidaysConstant ConstantConstant ConstantEliza Maher Hasselquist + OliviaFri2/59.00-11.00Own workConstant ConstantConstant ConstantConstant ConstantSat3/5Image StateImage StateImage StateImage State	-					
PMReadingforested landscapesImage: constraint of the section of the	Sun					
Tue29/49.00-11.00LecturePeatlands and managementJärveoja13.00 15.0013.00 15.00LectureDitching practices in forests, Effects of ditching on water quality, quantity and ecologyEliza Maher Hasselquist + OliviaWed30/4All dayAssignmentReading and preparation for group assignmentImage: Colored c	Mon	28/4	9.00-12.00	Lecture		Kuglerová
13.00 15.00LectureDitching practices in forests, Effects of ditching on water quality, quantity and ecologyEliza Maher Hasselquist + OliviaWed30/4All dayAssignmentReading and preparation for group assignmentEliza Maher Hasselquist + OliviaThu1/5Public holidaysSate 3/5Own workImage: Comparison of the section			PM	Reading		
15.00Effects of ditching on water quality, quantity and ecologyHasselquist + OliviaWed 30/4All dayAssignmentReading and preparation for group assignmentImage: Coloration for group assignmentThu1/5Public holidaysImage: Coloration for group assignmentImage: Coloration for group assignmentFri2/59.00-11.00Own workImage: Coloration for group assignmentImage: Coloration for group assignmentSat3/5Image: Coloration for stateImage: Coloration for group assignmentImage: Coloration for group assignment	Tue	29/4	9.00-11.00	Lecture	Peatlands and management	Järveoja
Thu1/5Public holidaysImage: Second seco			_	Lecture	Effects of ditching on water	Hasselquist +
holidaysholidaysFri2/59.00-11.00Own workSat3/5II	Wed	30/4	All day	Assignment	- · ·	
Sat 3/5 Image: Market State Image: Market State<	Thu	1/5				
	Fri	2/5	9.00-11.00	Own work		
	1					
	Sat	3/5				

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

Mon	5/5	9.00-11.00	Lecture + discussion	Rewetting	Skogsstyrelsen
		13.00-16.00	Lecture and discussions	Effects of forestry operations on water quality, quantity and ecology Forest management around water	Kuglerová
Tue	6/5	All day	Assignments	A7: Working on debate statements. Voluntary assignment	
Wed	7/5	9.00-10.30 (Björken)	Lecture	Climate change, water and forestry	Hjalmar Laudon
		PM	Assignment	A7: Working on debate statement	
Thu	8/5	All day	Assignment	A7: Working on debate statement	
				A7b individual voluntary assignment (deadline Friday midnight)	
Fri	9/5	9.00-12.00 (Björken)	Debate	Stakeholder debate A6, + concluding discussion	Kuglerová, Hasselquist, Järveoja
		PM	Assignment	A7b individual voluntary assignment (deadline Friday midnight)	Surveoju
Sat	10/5				
Sun	10/5				
Mon	12/5	9.00-11.00	Lecture	M8 Stakeholder interactions	Elisabet Andersson
		РМ	Assignment	A8a: Working on a map and metrics for group assignment	
Tue	13/5	AM	Assignment	A8a: Working on a map and metrics for group assignment	
		13.00-16.00 (Zoom)	Lecture and discussion	Decision support for sustainable forest management – tools and examples	Johanna Lundström

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments Please note that the scheduled activities may change within the times allocated!!!

Wed	14/5	9.00-11.00	Lecture and exercise	Multi-criteria decision analysis	Eva-Maria
		(Björken)		(MCDA) as a tool for participatory forest planning	Nordström
		PM	Assignment	A8a: Working on a map and	
				metrics for group assignment	
Thu	15/5	9.00-11.00	Lecture and discussion	Forestry and conservation in the	Johan Svensson
		(Björken)		coniferous forests of NW Sweden	
		PM	Assignment	A8a: Working on a map and metrics for group assignment	
Fri	16/5	PM	Assignment	A8a: FINAL group report	
				(deadline for submission <u>on</u> <u>Canvas</u> by midnight)	
			Assignment	Voluntary A8b: (deadline on	
				Sunday midnight)	
Sat	17/5				
Sun	18/5				
Mon	19/5	8.00 -	Field trip	M9:	Emelie Westin
		departure from Umeå			(SCA), (Jämtland County
		ironi onica			Board),
		14.00-17.00		Green infrastructure and	Järvi Järveoja
				landscape planning	
Tue	20/5	8.00-17.00	Field trip	Clear-cut free forestry	Henrik Wikström
		(Hallåsen)			Järvi Järveoja
Wed	21/5	8.00-17.00	Field trip	Nature values, biodiversity,	Göran Hallsby,
		(Fagerdal)		regeneration, fire,	Lenka Kuglerová
Thu	22/5	8.00-17.00	Field trip	Preparation for A10:desirable	Kuglerová Halloby
		(Fagerdal)		futures Water, social values	Hallsby
Fri	23/5	8.00-13.00	Field trip	SWOT analyses,	Kuglerová
		(Fagerdal)			Hallsby
		14.00 -			
		departure to Umeå			
Sat	24/5				
Sun	25/5				
Mon	26/5	AM		M6 Forest and Human health	
				- Reading and watching pre-	
				recorded lectures	
		13.00-15.00	Lecture	Forest and Human health	

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

		(Björken)		- A6: Forest for Recovery-	Elisabet Bohlin
Tue	27/5	All day		A6: Individual forest excursion or reading	
Wed	28/5	9.00-11.00 (Björken)	Seminar	Discussion and questions on recorded lectures and follow up on A6	Elisabet Bohlin
Thu	29/5	Public holidays			
Fri	30/5	All day	Assignment	A10 – desirable future	
Sat	31/5	9.00-11.00 (zoom)			
Sun	1/5				
Mon	2/6	9.00-11.00 (online)	Lecture	Opportunities for enhanced returns in timberland investments through carbon- and biodiversity credits	Aleksandra Holmlund
		PM	Assignment	A10 – desirable future	
Tue	3/6	9.00-11.00 (zoom)	Lecture	Governmental incentives	Stefan Karlsson (Skogsstyrelsen)
		PM	Assignment	A10 – desirable future	
Wed	4/6	AM	Reading for afternoon discussion	A10b – climate adaptation of forest management	
		13.00-15.00 (Björken)		A10b – climate adaptation of forest management	
Thu	5/6	9.00-12.00 (Vita Havet)	Discussion Evaluation	A10b – climate adaptation of forest management Fill out course evaluation in Evald	Kuglerová
Fri	6/6	Public holidays			

M=module, A=assignment, L=lecture

Red text = attendance is mandatory, Green text = deadlines, Purple text = voluntary assignments

Sat	7/6		
Sun	8/6		