

**SG0245 Sustainable management of boreal forests. A=Attendance crucial M=Mandatory participation**

2021-03-24 - 2021-06-06 Draft Schedule updated 21-03-10.

Please be prepared for upcoming adjustments

Day	Time & location	Activity	Content	Teachers
Wed 24/3	9:15-11.00 Zoom  PM Canvas	Course introduction Subject matter outline Student interaction and anticipations  Assignment 1 Submit individual essay on Canvas 16:00.  M2 introductory reading and group arrangement	Objectives & learning outcome course design, student expectations and responsibilities, activities, study group organization, schedule, literature, learning tools and grading.  <b>Assignment 1 (A1); Your perspective</b>  Overview M2, own searches	G.H.
Thu 25/3	9:15-10:00 Zoom  10:15-12 Video  PM	Introduction M2  Russia and Canada <b>A</b>  Literature studies	<b>M2: The boreal forestry context.</b> + Workshop for co-generation of knowledge + The annotated bibliography  6 video clips on Canvas <i>Natalia Lukina, Peter Duinker, Laird Van Damme, Margret Wanlin, Stephen Hart, Peter Duinker</i>  Overview M2, own searches and reading assigned on Canvas	G.H.
Fri 26/3	8:15-10 Videos and Canvas discussion  10-17 Canvas groups	Lecture <b>A</b>  Regional studies and Inter regional seminars with group upload to Canvas	Emerging policy and governance shifts in boreal forestry <i>Camilla Widmark</i>  Topic 1: History of boreal forest exploitation and management Topic 2: Land ownership and tenure	C.W.  G.H.
Sa 27/3				
Su 28/3				
Mo 29/3	9-17 Canvas groups	Regional studies and Inter regional seminars with group upload to Canvas	Topic 3: Productivity, products (goods and services) and trade Topic 4: Bioeconomy and governance	G.H.
Tue 30/3	9-17 Canvas groups	Regional studies and Inter regional seminars with group upload to Canvas	Topic 5: Development of SFM standards and guidelines, including criteria and indicators within forest certification	G.H.
Wed 31/3	9-11 Zoom	Supervision Seminar group preparations	Open discussion (Canvas)	G.H.
Thu 1/4	9-11 Zoom  12-13 Video	Concluding seminar <b>M</b>  Guest lecture <b>A</b> provided on Canvas	<b>M2: The boreal forestry context</b>  Introducing circumboreal forestry and climate change. <i>Prof. Dan Binkley.</i>	G.H.  G.H.

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	13-16 Canvas	M3 introductory reading and group arrangements	Key questions and Text book chapter 8	
Fri 2/4		Easter		
Sa 3/4		Easter		
Su 4/4		Easter		
Mon 5/4		Easter		
Tue 6/4	8:30-9:00  9-11 Zoom  15-16 Zoom	M3 Assignment instructions Lecture <b>A</b>  Assigned reading  Supervision	<b>M3: Boreal forestry and climate change</b>  Climate change drivers and the importance of forests. <i>Mats B. Nilsson</i>  Follow up on lecture and assigned reading	G.H M.N.   M.N.
Wed 7/4	9-11 Zoom  15-16 Zoom	Lecture <b>A</b>  Assigned reading  Supervision	Carbon balances across the managed forest landscape. <i>Mattias Peichl</i>  Follow up on lecture and assigned reading	M.P.   M.P.
Thu 8/4	9-11 Zoom  15-16 Zoom	Lecture <b>A</b>  Assigned reading  Supervision	The role of wood based products and bioenergy. <i>Gustaf Egnell</i>  Follow up on lecture and assigned reading	G.E.   G.E.
Fri 9/4	8-11 Canvas groups  PM	Preparations for panel discussion <b>A</b>  Update personal summary report	Group assignments. Compile questions and prepare statement to submit on Canvas.	
Sa 10/4				
Su 11/4				
Mo 12/4	9-12 Zoom  12-17 Canvas	Panel discussion <b>M</b>  M4 Introductory reading and group arrangements	<b>M3: Boreal forestry and climate change</b> Moderator: <i>Gustav Stål</i>	M.N., M.P., G.E., G.S.
Tue 13/4	9-9:20 Zoom  AM Videos  PM	M4 Assignment instructions  Lecture <b>A</b>  Group assignment	<b>M4: Wood processing technology and the wood value chain.</b>  Implications for forest management strategies. Wood raw material traits from log to landscape. <i>Tommy Mörling</i>  5 Supervision time slots in Zoom (to be announced)	TM   TM
Wed 14/4		Group assignment		
Thu 15/4	9-11 Zoom	Web Lecture <b>A</b>	Wood processing and log analyses – challenges and opportunities ( <i>Johan Oja</i> )	

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	PM	Group assignment	A4: presentation upload due 15:00.	
Fri 16/4	9-12 Zoom	Group presentations and discussion <b>M</b>	<b>M5: Forest management and biodiversity.</b>	T.M.
	12:30-13 Zoom	M5 Assignment instructions		G.H.
	PM Canvas	M5 Introductory reading and group arrangement		
Sa 17/4				
Su 18/4				
Mo 19/4	9-11 Zoom	Lecture <b>A</b> and discussion	What is natural? ( <i>Jimmy Jönsson</i> )	J.J.
	12-13 Zoom	Lecture <b>A</b>	Disturbance processes, forest management and biodiversity ( <i>Joakim Hjältén</i> ).	J.H.
	PM Canvas	Assigned reading and group discussions		
Tue 20/4	9-10 Zoom	Lecture <b>A</b>	Management methods and biodiversity ( <i>Emelie Fredriksson</i> ).	E.F.
	Canvas	Assigned reading and group discussions		
	14-16 Zoom	Supervision, lectures and reading		E.F. / J.H.
Wed 21/4	9-10 Zoom	Lecture <b>A</b>	Ecological restoration, climate adaptation and biodiversity. ( <i>Joakim Hjältén</i> )	
	Canvas	Assigned reading and group discussions		
Thu 22/4	9-10 Zoom	Supervision lectures and reading	Preparations for open book exam	J.H. /E.F.
	PM	Assigned reading		
Fri 23/4	9-12 Canvas	Open book exam <b>M</b> ,	Forest management applications and biodiversity	
	PM Canvas	M6 Introductory reading and group arrangements		
Sa 24/4				
Su 25/4				
Mo 26/4	9-10 Zoom	M6 Lecture and Assignment instructions	<b>M6: Management strategies and guidelines to handle abiotic and biotic damaging agents.</b>	G.H.
	10-12	Web lecture/seminar <b>A</b>		

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	Canvas and Zoom PM Canvas	narrated slide show and discussion  Reading and group Assignments	Responses of global insect pests to climate warming. <i>Christer Björkman</i>  "Three mindmaps"	
Tue 27/4	9-13 Zoom  PM Canvas	Lecture+break out room exercise <b>A</b>  Reading and group Assignment	Management strategies and decision support to handle forest pathogenes. Demonstration and discussion. <i>Teacher: to be determined</i>  "Three mindmaps"	
Wed 28/4	9-11 Zoom  PM Canvas	Lecture <b>A</b>  Reading and group assignment	Climate adaptation in Swedish forestry – analysis and strategies at the Swedish Forest Agency <i>Hillevi Eriksson</i>  "Three mindmaps" Submit A6:1	
Thu 29/4	Zoom 9-12	Concluding Seminar <b>M</b>	Group presentations  Submit individual memo A6:2	
Fri 30/4			VALBORG	
Sa 1/5				
Su 2/5				
Mon 3/5	9:00-09:30 Zoom 09:30-10:30  PM	Overview M7  Introduction A7:1 and A7:2 <b>A</b>  Assignments and reading	<b>M7 Management strategies in a long term landscape perspective</b> Forest and health (A7:1, individual exercise), Municipal planning (A7:2, group assignment)	GH  AD, EB
Tue 4/5	AM  Zoom 15:00-16:00	Assignments and reading  Discussion with teachers	Submit A7:1  Follow up A7:1	AD, EB
Wed 5/5	AM  10:00-12:00 Zoom  PM	Reading and group work  Lecture and discussion <b>A</b>  Reading and group work	The forest in a landscape context – Green infrastructure <i>Bengt Gunnar Jonsson</i>	
Thu 6/5	AM  Zoom 12:00-14:00  PM	Reading and group work  Lecture and discussion <b>A</b>  Reading and group work	Forestry and conservation in the coniferous forests of NW Sweden <i>Johan Svensson</i>	
Fri 7/5	8:00-11 Zoom	Lecture and discussion <b>A</b>	Dialogues and other stakeholder interactions - experiences of a professional <i>Elisabet Andersson, SFA.</i>	E.A.

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	12:00-14:00 Zoom  PM	Lecture and Workshop <b>A</b>  Reading and group work	Heureka Plan-wise applications for green infrastructure planning <i>Jeanette Eggers</i>	J.E.
Sa 8/5				
Su 9/5				
Mo 10/5	AM  12-14 Zoom	Reading and group work  Demonstration and discussion <b>A</b>	Alternative forest futures. Simulation and decision support from Planwise	GH  J.E.
Tue 11/5	Zoom 9:00-12:00  PM	Lecture and exercise <b>A</b>  Reading	Participatory planning experiences <i>Ida Wallin</i>	I.W.
Wed 12/5		Individual summary and reflection on M7	Draft report	
Thu 13/5		Ascension day		
Fri 14/5				
Sa 15/5				
Su 16/5				
Mo 17/5	Zoom 9-10:30	Presentation of report drafts <b>M</b>	Peer review in break-out rooms	
Tue 18/5	Zoom 9:00-10:30 11:00-11:30  PM	Lecture <b>A</b> Assignment  Reading and assignment work	<b>M8 Water in forested landscapes</b> Water in forested landscapes Introduction and instructions	LK LK
Wed 19/5	Zoom 9:00-10:30  PM	Lecture <b>A</b>  Group work on assignment	Ditching practices in forests, Effects of ditching on water quality, quantity and ecology	EMH
Thu 20/5	Zoom 9:00-10:00  10:15-11:30  PM	Lecture <b>A</b>  Lecture + exercise  Group work on assignment	Effects of forestry operations on water quality, quantity and ecology  Forest management around water	LK  LK+EMH
Fri 21/5	Zoom 9:00-11:00  11:15-12:00  PM	Stakeholder debate <b>M</b> in breakout rooms  Concluding discussion  Work on individual assignments	Group 1 (LK), Group 2 (EMH)    Submission deadline Sunday 23 /5 23:59	LK, EMH  LK+EMH
Sa 22/5				
Su 23/5				
Mon 24/5	08:15 SLU	Depart field trip <b>M</b>	<b>M9 Alternatives to clearfelling, unconventional operations and emerging</b>	

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			management objectives, according to separate schedule	
Tue	25/5			
Wed	26/5			
Thu	27/5			
Fri	28/5			
Sa	29/5			
Su	30/5			
Mon	31/5		Conference session work	<b>M10 Desirable futures in boreal forests</b>
Tue	1/6		Conference session work	
Wed	2/6		Conference session work	
Thu	3/6		Conference session work	Submit Conference session
Fri	4/6	AM          12:00-14 Zoom	Peer review Conference contributions <b>M</b>  Revise A1:1 (individually)  Fill out course evaluation in Evald.  Course conclusion and evaluation	Watch and review two other sessions
Sa	5/6			
Su	6/6			