

SG0245 Sustainable management of boreal forests. 2022-03-24 - 2022-06-05

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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
Thur 24/3	9:00-10.30 Björken	Lecture	M1: 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)
	10.30-11.00 Björken PM	Assignment A1: Submit individual essay on Canvas 16:00	A1: Introduction – Your perspective A1+Reading	Kuglerová
Fri 25/3	9:00-10.00 Aspen	Lecture	M2: The boreal forestry context. + introduction to A2	Kuglerová + Lina Ceder
	10:15-12.00 PM	Recorded lectures Assignment+video lectures (C. Widmark)	Watch video clips on Canvas <i>Natalia Lukina, Peter Duinker, Laird Van Damme, Margret Wanlin, Stephen Hart, Peter Duinker, Leskinen</i> A2: Group arrangement for A2 (canvas), own literature searches, reading, watching lectures online	
Sa 26/3				
Su 27/3				
Mo 28/3	9.00-11.00 (Björken)	Lecture	Emerging policy and governance shifts in boreal forestry	Camilla Widmark
	11.00-17.00 (group rooms - library)	Assignment	A2: Regional studies and Inter regional groups: Topic 1: History of boreal forest exploitation and management Topic 2: Land ownership and tenure	
Tue 29/3	9.00-11.00 (Bokskogen)	Lecture	Recent report on boreal forestry	Ceder
	11.00-17.00 (group rooms - library)	Assignment	A2: Topic 3: Forest operations, productivity and products Topic 4: Forest industry structure, markets and share of global trade	

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Wed 30/3	9-12 (group rooms - library) PM	Assignment Assignment	A2: Topic 5: Bioeconomy, governance and forest certification A2: Preparing presentations for seminar	
Thur 31/3	9-11 12.00 13.00-16.00 (Björken)	Assignment Deadline for stipend (field trip) Concluding seminar	A2: Troubleshooting Submitting Tor Jonsson stipend application by lunch! (stipend for field trip M9) M2: The boreal forestry context, group presentations	Kuglerová + Ceder (assisting online) Kuglerová + Ceder
Fri 1/4	9:00-11:00 (Björken) PM	Lecture Guest Lecture (online) Reading	M3: Module intro and assignment instructions Introducing circumboreal forestry and climate change. M3 introductory reading and preparation for quiz on climate change drivers (A3a)	Gustaf Egnell Dan Binkley
Sa 2/4				
Su 3/4				
Mon 4/4	8.00-12.00 PM	Assignment Assignments	A3a: Reading + Quiz : Climate change drivers and the importance of forests. Quiz opens at 8:00 Work on A3b and c (individual and group work)	
Tue 5/4	9:00-11:00 (Björken) PM	Lecture Assignments	Carbon balances across the managed forest landscape. Work on A3b and c (individual and group work)	Mattias Peichl
Wed 6/4	9:00-11.00 (Björken) PM	Lecture Assignments	Soil carbon in boreal forest – Impact of forest management Work on A3b and c (individual and group work)	Michael Gundale
Thu 7/4	9:00-11.00 (Aspen) PM	Lecture Assignments	The role of wood based products and bioenergy. Work on A3b and c (individual and group work)	Gustaf Egnell

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Fri 8/4	9:00-12:00 (Björken) PM	Group discussion Assignment (deadline)	Group presentations A3b, questions, and discussion Finish personal summaries: deadline for A3c by Sunday midnight	Tomas Lundmark
Sa 9/4				
Su 10/4				
Mo 11/4	9:00-11 (Björken) PM	Lecture Assignment	M4: Introduction to wood processing technology and the wood chain value +introduction to assignment Watching recorded lectures by <i>Tommy Mörling</i> A4: Reading and group arrangement	Mats Warensjö
Tue 12/4	9:00-11 (Björken) PM	Lecture Assignment	Wood processing and log analyses – challenges and opportunities A4: group work	Johan Oja
Wed 13/4	9-17	Assignment	A4: group work	Supervised by Mats Warensjö (online)
Thu 14/4	9:00-12 (Björken)	Presentations	Group presentations and discussions	Mats Warensjö + Tommy Mörling
Fri 15/4	Easter			
Sa 16/4	Easter			
Su 17/4	Easter			
Mo 18/4	Easter			
Tue 19/4	9:00-11 (online) 13.00-15.00 (Björken) PM	Lecture Lecture Reading	M5: Key habitats and retention approaches (biodiversity conservation). Reading for M5	<i>Lena Gustafsson</i> <i>TBD</i>
Wed 20/4	9:00-11 (Björken) PM	Lecture Assignment	More varied forestry (the Swedish Forest Agency) A5a: Read and work on survey questions for discussion on Friday afternoon	<i>Helena Dehlin</i>
Thu 21/4	9:00-12 (Björken)	Lecture + discussion Reading	Ecological restoration of forests for biodiversity	<i>Albin Larsson</i> <i>Ekström</i>

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	PM		Preparations for open book exam	
Fri 22/4	8-12 (canvas)	Open book exam (A5b)	Forest management applications and biodiversity (submit by 12.00)	
	13.00	Assignment	A5a: deadline for survey	
	14:00-16:00 (Aspen)	Discussion (A5a)	Better than nature silviculture (A5a)	Kuglerová
Sa 23/4				
Su 24/4				

Mo 25/4	9:00-12 (Björken)	Lecture	M6: Introductions to forest health module, root rot and Heterobasidion	Jonas Rönnerberg
	13.00-17.00	Assignment	A6a: Watching recorded lectures + individual reflections (recommended submission by midnight) Open consultation on assignments with Jonas possible	
Tue 26/4	9:00-12.00 (Björken)	Lectures and discussion	Abiotic disturbances (fire, storms)	TBD
	PM	Assignment	A6b: Working on group assignments	
Wed 27/4	9:00-11.00 (Björken)	Lecture	Insect pests	TBD
	PM	Assignment	A6b: Working on group assignments	
Thu 28/4	9:00-12.00 (Björken)	Lectures	Trade risks and biotechnology	TBD
	13.00-16.00	Assignment	A6b: Working on group assignments	
Fri 29/4	9:00-12.00 (Björken)	Lectures	Integrated pest management	TBD
	13.00-15.00	Group presentations	Presentations of groups work	Rönnerberg, Kuglerová
	PM	Assignment	A6a: Finish individual assignments if needed (deadline at midnight)	
Sa 30/4				
Su 1/5				
Mon 2/5	9:00-11.00 (Björken)	Lecture	M7: Intro to module Water in forested landscapes	Kuglerová

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	13.00-15.00 (Aspen) PM	Lecture Assignment	Climate change, water and forestry A7a: groups created, Reading literature for debate	Hjalmar Laudon
Tue 3/5	9-10.30 (Bokskogen) PM	Lecture Assignment	Ditching practices in forests, Effects of ditching on water quality, quantity and ecology A7a: Reading literature and working on debate statements (groups)	Eliza Hasselquist
Wed 4/5	9:00-10:00 (Björken) 10:15-12:00 (Björken) PM	Lecture and discussion Lecture + exercise Assignment	Effects of forestry operations on water quality, quantity and ecology Forest management around water Fill A7b individual assignment (deadline Friday midnight)	Lenka Kuglerová Kuglerová+Hasselquist
Thu 5/5	All day	Assignment A7a	Working on debate statements	
Fri 6/5	9:00-11 (Aspen, vita havet, enbäret) 11:15-12:00 (Aspen) PM	Debate Concluding discussion Assignment	Stakeholder debate, group 1 (LK), group 2 (EMH), group 3 (HL, if needed) Concluding discussion Submit A7b by midnight	Kuglerová, Hasselquist, (Laudon) Kuglerová, Hasselquist,
Sa 7/5				
Su 8/5				
Mo 9/5	9-11 (Björken) 11.00-12.00 (Björken) PM	Lecture Assignment Assignment	M8 introduction: Management strategies in a long term landscape perspective Introduction of Forest and health Watching youtube clips for A8a A8a: Individual forest excursion or reading	Kuglerová Elisabet Bohlin
Tue 10/5	AM 15.00-16.00 (Björken)	Assignment Discussion	A8a: Individual forest excursion or reading Discussion and follow up on A8a with teachers	Bohlin

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Wed	11/5	9.00-11.00 (Aspen) PM	Lecture and discussion Assignment	The forest in a landscape context – Green infrastructure Introduction of A8b – Canvas instructions and data collection	Bengt Gunnar Jonsson
Thu	12/5	AM 12:00-14:00 (Aspen)	Assignment Lecture and discussion	A8b: Working on a map and metrics for group assignment Forestry and conservation in the coniferous forests of NW Sweden	Johan Svensson
Fri	13/5	9:00-12 (Björken) 13:00-15:00 (online)	Lecture and discussion Lecture and discussion	Dialogues and other stakeholder interactions - experiences of a professional Heureka Plan-wise applications for green infrastructure planning – introduction	<i>Elisabet Andersson, SFA</i> <i>Jeanette Eggers</i>
Sa	14/5				
Su	15/5				
Mo	16/5	9.00-11.00 (online) PM	Lecture and discussion Assignment	Alternative forest futures. Examples of simulation and decision support from Planwise A8b: Working on a map and metrics for group assignment (deadline for submission by midnight)	<i>Jeanette Eggers</i>
Tue	17/5	9:00-12:00 (online) PM	Lecture and exercise Assignment	Participatory planning experiences A8c – individual summary of planning for different values	<i>Ida Wallin</i>
Wed	18/5	All day	Assignment Voluntary assignment	A8c individual summary of planning for different values , voluntary: share draft report (submit to your A8d group by 14.00)	Supervised by Kuglerová
Thu	19/5	9:00-10:30 (online) PM	Voluntary assignment Assignment A8c	Peer review in break-out rooms, voluntary work, submit peer review comments by 12.00 A8c: Submit individual planning for different forest values by midnight	Supervised by Järveoja
Fri	20/5		No work	Off as a compensation for 26/5	
Sa	21/5				
Su	22/5				
Mon	23/5	8.00 – departure	Field trip	M9 Green infrastructure	Malin Fuchs

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	from Umeå to Östersund			
Tue 24/5	8-17 (Jämtland)	Field trip	Alternatives to clearfelling	Henrik Wikström
Wed 25/5	8-17 (Fagerdal)	Field trip	Thinning approaches, deadwood	Göran Hallsby
Thu 26/5	8-17 (Fagerdal)	Field trip	Prescribed burning, ditches and streams	Göran Hallsby and Lenka Kuglerová
Fri 27/5	8-14 (Fagerdal) 15.00 – departure to Umeå	Field trip	Riparian thinning project	Kuglerová
Sa 28/5				
Su 29/5				
Mon 30/5	All day	Lecture + Conference session work	M10 Desirable futures in boreal forests + intro to assignment	Järveoja
Tue 31/5	All day	Assignment	A10a: Conference session work	
Wed 1/6	All day	Assignment	A10a: Conference session work	
Thu 2/6	9-14.00 (Björken) PM	Conference Assignment	Conference sessions (3 parallel) and students viewing A10b: Peer review Conference contributions	Järveoja + Kuglerová
Fri 3/6	9.00-10.00 (Björken) 10.00-12.00 PM	Assignment Evaluation Voluntary assignment	A1b: Revise A1 (individually) Bring notes to the final meeting Course conclusion and evaluation Fill out course evaluation in Evald. Submit A0: Annotated bibliography	Järveoja
Sa 4/6				
Su 5/6				