

Soil biology and biogeochemical cycles, 15 credits VT2021, BI1322

Course coordinators:

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* Activities marked with a star are mandatory.

Time slots in blue italics are suggested activities for these times. Meetings with project group members and supervisors will be planned within these blue time slots and/or after agreement. Please note that this schedule may be subject to changes before and during the course. Remember to check for schedule changes regularly on the course websites SLUNIK and Canvas

Week #	Date	Time	Room	Type	Subject	Book	Teacher
3							
Mon	18-jan	<i>9.15-10.30</i>			<i>self study</i>		
		10.30- 12.30	Zoom	Lecture	Introduction to the course		EK + KC
		<i>12.30-14.15</i>			<i>project work / self study</i>		
		14.15-17.00	Zoom	Lecture	Biogeochemical element cycles	<i>S11,12,13</i>	JPG
Tue	19-jan	9.15-11.00	Zoom	Seminar	Introduction project work		EK
		<i>11.00-13.15</i>			<i>project work / self study</i>		
		13.15-15.00	Zoom	Seminar	Introduction lab practicals		KC
		<i>15.00-17.00</i>			<i>project work / self study</i>		
Wed	20-jan	<i>9.00-17.00</i>			<i>project work / self study/academic writing 1</i>		
Thu	21-jan	9.15- 11.45	Zoom	Lecture	Isotopes in biogeochemistry	<i>S11,12,13</i>	JPG
		13.15-16.00	Böl	Practical	Practical work sample preparation*		KC + EK
Fri	22-jan	9.15-11.00	Zoom	Lecture	Greenhouse gasses and climate change	<i>S11,12,13</i>	KM
		<i>11.00-13.15</i>			<i>project work / self study</i>		
		13.15-15.15	Zoom	Lecture	Soil architecture and structure formation	<i>P2</i>	TKe
		<i>15.15-17.00</i>			<i>project work / self study</i>		
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Mon	25-jan	9.15-11.00	Zoom	Lecture	SOM stabilization	<i>P12,13</i>	KM
		11.15-12.00	Online/Zoom	Exercise	Pools and processes introduction	<i>S11,12,13</i>	JPG
		<i>12.00-17.00</i>			<i>project work / self study</i>		
Tue	26-jan	<i>9.00 -13.15</i>			<i>project work / self study</i>		
		13.15-17.00	Online/Zoom	Exercise	Pools and processes C/N	<i>S11,12</i>	JPG
Wed	27-jan	9.15-13.00	Böl	Practical	Practical work greenhouse gasses*		LH + FH
		<i>14.00-17.00</i>			<i>project work / self study</i>		
		17.00			<u><i>Deadline project working plan*</i></u>		

Thu	28-jan	9.00-13.15 13.15-17.00	Online/Zoom	Exercise	<i>Pools and processes S/P /self study</i>		
Fri	29-jan	9.15-12.30 12.30-17.00	Böl	Practical	<i>Pools and processes S/P</i> <i>Practical work greenhouse gasses*</i> <i>project work / self study</i>	S12,13	JPG LH + FH

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Mon	01-feb	9.00-10.15 10.15-12.00 13.15-15.00 15.00-17.00 17.00	Zoom Online/Zoom	Lecture Exercise	<i>project work / self study</i> Metabolism Metabolism exercise <i>project work / self study</i> <u><i>Deadline peer review project working plan*</i></u>	P9	CJ CJ
Tue	02-feb	9.15-13.00 13.00 - 17.00	Online/Zoom	Practical	Data analyses greenhouse gasses* <i>project work / self study</i>		LH + FH
Wed	03-feb	9.15-12.00 12.00-17.00 17.00	Zoom	Lecture	The Bacteria and Archea <i>project work / self study</i> <u><i>Deadline revised working plan*</i></u>	P3	SH
Thu	04-feb	9.15-12.00 12.00-17.00	Zoom	Lecture	The Fungi <i>project work / self study</i>	P4	BL
Fri	05-feb	9.15-11.00 11.00-17.00	Zoom	Lecture	Fungal ecology <i>project work / self study</i>	P4	BL

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Mon	08-feb	9.15-12.00 12.00-14.00 14.00-17.30 17.30	Zoom Böl	Lecture Practical	Molecular community analyses <i>project work / self study</i> Practical work molecular methods* <u><i>Deadline lab report 1*</i></u>	P6,7	KC YB + LM
Tue	09-feb	9.15-17.00	Böl	Practical	Practical work molecular methods*		YB + LM
Wed	10-feb	9.15-12.30 12.30-17.00	Online/Zoom	Practical	Data analyses molecular methods* <i>project work / self study</i>		YB + LM
Thu	11-feb	9.00-17.00			<i>project work / self study</i>		
Fri	12-feb	9.00-10.15 10.15-12.00 13.15-15.00 15.00-17.00	Zoom Online/Zoom	Lecture Exercise	<i>project work / self study</i> Ecological concepts Ecological concepts assignment <i>project work / self study/ academic writing 2</i>	P10	KC KC

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Mon	15-feb	9.15-12.00 12.00-17.00 17.00	Zoom	Lecture	The soil fauna <i>project work / self study</i> <u><i>Deadline lab report 2*</i></u>	P5	MV
Tue	16-feb	9.00- 17.00			<i>questions project work/self study</i>		<i>project supervisors</i>

Wed	17-feb	9.15-12.00 <i>12.00-17.00</i>	Zoom	Lecture	Trophic interactions <i>project work / self study</i>	<i>P10,B2</i>	EK
Thu	18-feb	9.15-12.00 <i>12.00-17.00</i>	Zoom	Lecture	Decomposition <i>project work / self study</i>	<i>P12,13</i>	BL
Fri	19-feb	9.15-11.00 <i>11.00-17.00</i>	Zoom	Lecture	Mycorrhiza <i>project work / self study/ academic writing 3</i>	<i>P11</i>	BL

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Mon	22-feb	<i>9.00-10.15</i> 10.15-12.00 <i>12.00-17.00</i>	Zoom	Lecture	<i>project work / self study</i> Rhizosphere biology <i>project work / self study</i>	<i>P11</i>	AS
Tue	23-feb	9.15-11.00 <i>11.00 -17.00</i>	Zoom	Practical	Microscopy mycorrhiza <i>project work / self study</i>		LM + TN
Wed	24-feb	9.15-12.00 <i>12.00-17.00</i>	Zoom	Exercise	Group assignment discussing human impacts <i>project work / self study</i>	<i>P18</i>	EK
Thu	25-feb	<i>9.00-12.00</i> <i>12.00-17.00</i>			<i>Supervisor feedback on oral presentation/project work</i> <i>project work / self study</i>		<i>EK+ proj. supervisors</i>
Fri	26-feb	9.15-15.00 <i>15.00-17.00</i>	Zoom	Presentation	Oral presentations project work* <i>project work / self study</i>		EK+ proj. supervisors

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Mon	01-mar	<i>9.00-13.15</i> 13.15-16.00 <i>16.00-17.00</i>	Zoom	Lecture	<i>project work / self study</i> Mineralization <i>project work / self study</i>	<i>P13,14</i>	BL
Tue	02-mar	9.15-17.00	Böl	Practicals	Practicals C and N cycling*		KJ
Wed	03-mar	9.15-12.00 <i>12.00-17.00</i>	Böl	Practicals	Practicals C and N cycling* <i>project work / self study</i>		KJ
Thu	04-mar	9.15 - 12.00 <i>12.00-17.00</i>	Online/Zoom	Practicals	Data analysis C and N cycling* <i>project work / self study</i>		KJ
Fri	05-mar	9.15-12.00 <i>12.00-17.00</i>	Zoom	Lecture	Nitrogen Transformations <i>project work / self study</i>	<i>P14,15</i>	SH

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Mon	08-mar	9.15-12.00 <i>12.00-17.00</i> 17.00	Online/Zoom	Exercise	N-cycling exercise <i>project work / self study</i> <u><i>Deadline lab data compilation*</i></u>		CJ
Tue	09-mar	<i>9.00-17.00</i> 17.00			<i>project work / self study</i> <u><i>Deadline lab report 3*</i></u>		
Wed	10-mar	<i>9.00-17.00</i> 17.00			<i>project work / self study</i> <u><i>Deadline project report*</i></u>		

Thu	11-mar	9.15-14.00 <i>14.00-17.00</i>	Zoom	Practicals	Data compiling day, analysis and discussion* <i>project work / self study</i>		KC
Fri	12-mar	9.15 - 12.00 <i>12.00-17.00</i>	Online/Zoom	Exercise	Group assignment discussing human impacts <i>project work / self study</i>	<i>P18</i>	KM
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Mon	15-mar	9.15-12.00 <i>12.00-14.00</i> 14.00-15.00 <i>15.00-17.00</i> 17.00	Zoom	Lecture	C/N and modeling in agriculture <i>project work / self study</i>	<i>P18</i>	TKä
			Zoom	Evaluation	Course evaluation <i>project work / self study</i> <u><i>Deadline peer review project report*</i></u>		EK
Tue	16-mar	<i>9.00-17.00</i>			<i>project work / self study</i>		
Wed	17-mar	<i>9.00-17.00</i> 17.00			<i>project work / self study</i> <u><i>Deadline revised project report*</i></u>		
Thu	18-mar	<i>9.00-13.15</i> 13.15-16.00 <i>16.00-17.00</i>	Canvas	Questions	Questions exam <i>self study</i>		all teachers (0)
Fri	19-mar	<i>9.00-17.00</i>			<i>self study</i>		
12							
Mon	22-mar	<i>9.00-17.00</i>			<i>self study</i>		
Tue	23-mar	<i>9.00-13.00</i> 13.00-18.00	Zoom	Exam	<i>self study</i> Exam*		NN

Planned examinations

The following written examinations are planned for the course:

1. Regular written examination during the course: *Tuesday the 23rd of March 2021, 13.00-18.00, location:*
2. First re-examination in connection with the course: *Wednesday the 5th of May 2021, 13.00-18.00*
3. Additional re-examination: *Wednesday the 25th of August 2021*

If you plan to attend a written examination, you must register at the latest 10 weekdays (usually two weeks) beforehand. Registration is made via the Student Web; see under 'Ladok'. For a regular examination, registration can be done from the start of the course; for re-examination, it opens about four weeks before the examination. Information on time and location for re-examinations will become available when the time approaches. Examination dates from the spring 2020 are preliminary.

For access to extended time, separate location or computer for examination, you must inform our course secretary at mark-kurssektariat@slu.se; this requires a special decision from the disabled-student office (see <https://www.slu.se/en/education/contact-and-support/disabilities/>).

Teachers

Teaching assistants practicals

Literature project supervisors

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