

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-9:00					
09:00-10:00					
10:00-11:00					
11:00-12:00					
12:00-13:00					
13:00-14:00					
14:00-15:00					
15:00-16:00					
16:00-17:00					

Obligatory

Lectures/trips

Teachers

Lecture rooms:

Confirmed
TBC

**Field trips**

Obligatory

- \* Introduction MB, JB
- \* Term paper introduction and group work MB
- \* Field measurements MB, LH
- \* Literature discussions MB
- \* Field trip MB, LH
- \* Term paper presentations MB
- \* Exam MB, JB
- \* Course evaluation MB

Lectures

- Load apportionment models FD
- Sources and pathways N MB
- Water Framework Directive MB
- Mitigation - theory MB
- Agricultural water management JB
- Sources and pathways P FD
- Mitigation - practice FD, PG, HA
- Stream restoration BM
- Multiple stressors MK-Q
- Modelling water quality MF
- Water challenges in developing countries JB
- Stakeholder's perspective
- Nutrient recycling JS
- Questions and answers MB
- Limnology HM
- Hydrology KB
- Ecosystem impacts AB
- Water quality monitoring MB
- Swedish monitoring JF

- TP1 Term paper first draft
- TP2 Term paper second draft
- TP3 Term paper final version

Teachers:

- Magdalena Bieroza MB (course leader)
- Jennie Barron JB
- Kevin Bishop KB
- Hampus Markensten HM
- Andreas Bryhn AB
- Faruk Djodjic FD
- Helena Aronsson HA
- Jens Fölster JF
- Martyn Futter MF
- Pia Geranmayeh PG
- Brendan McKie BM
- Jenna Senecal JS
- Mary Kelly-Quinn MK-Q
- Lukas Hallberg LH

	1st Nov	2nd Nov	3rd Nov	4th Nov	5th Nov
<b>BASIC CONCEPTS, SOURCES AND IMPACTS</b>					

8:00-9:00					
09:00-10:00		Introduction	Limnology	Hydrology	Water quality monitoring
10:00-11:00		Introduction	Limnology	Hydrology	Water quality monitoring
11:00-12:00		Term paper - introduction	Limnology	Hydrology	Water quality monitoring
12:00-13:00		Lunch	Limnology	Lunch	Lunch
13:00-14:00		Term paper - group work	Lunch	Ecosystem impacts	Own work
14:00-15:00		Term paper - group work	Limnology	Ecosystem impacts	Own work
15:00-16:00		Own work	Limnology	Ecosystem impacts	Own work
16:00-17:00		Own work	Own work	Own work	Own work

<b>LEGISLATION, MONITORING AND MODELLING</b>					
	8th Nov	9th Nov	10th Nov	11th Nov	12th Nov

8:00-9:00					
09:00-10:00	Field measurements	Sources and pathways P	Sources and pathways N	Mitigation - theory	Literature discussion 1
10:00-11:00	Field measurements	Sources and pathways P	Sources and pathways N	Mitigation - theory	Own work
11:00-12:00	Field measurements	Sources and pathways P	Sources and pathways N	Mitigation - theory	Own work
12:00-13:00	Field measurements	Lunch	Lunch	Lunch	Lunch
13:00-14:00	Field measurements	Load apportionment models	Water Framework Directive	Modelling water quality	
14:00-15:00	Field measurements	Load apportionment models	Water Framework Directive	Modelling water quality	Own work
15:00-16:00	Field measurements	Own work	Own work	Modelling case study	Own work
16:00-17:00	Own work	Own work	Own work	Own work	Own work

<b>INTERNATIONAL OUTLOOK AND MITIGATION</b>					
	15th Nov	16th Nov	17th Nov	18th Nov	19th Nov

8:00-9:00					
09:00-10:00	Agricultural water management	Own work	Stream restoration	Mitigation - practice	Literature discussion 2
10:00-11:00	Agricultural water management	Multiple stressors	Stream restoration	Mitigation - practice	Literature discussion 3
11:00-12:00	Own work	Multiple stressors	Stream restoration	Mitigation - practice	Own work
12:00-13:00	Lunch	Multiple stressors	Lunch	Lunch	Lunch
13:00-14:00	Swedish monitoring	Lunch	Mitigation - practice	Mitigation - practice	Own work
14:00-15:00	Swedish monitoring	Water challenges in developing c	Mitigation - practice	Own work	Own work
15:00-16:00	Own work	Water challenges in developing c	Own work	Own work	Own work
16:00-17:00	TP1	Own work	Own work	Own work	Own work

<b>APPLICATIONS</b>					
	22nd Nov	23rd Nov	24th Nov	25th Nov	26th Nov

8:00-9:00					
09:00-10:00	Own work	Stakeholder's perspective - Markus Hoffman/Otto von Arnold	Nutrient recycling	Field trip	Term paper presentations
10:00-11:00	Own work		Nutrient recycling	Field trip	Term paper presentations
11:00-12:00	Own work		Nutrient recycling	Field trip	Term paper presentations
12:00-13:00	Lunch	Lunch	Lunch	Field trip	Term paper presentations
13:00-14:00	Own work	Stakeholder's perspective	Literature discussion 4	Field trip	
14:00-15:00	Own work	Stakeholder's perspective	Own work	Field trip	
15:00-16:00	Own work	Stakeholder's perspective	Own work	Field trip	
16:00-17:00	TP2	Own work	Own work	Field trip	

<b>EXAM</b>					
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29th Nov

30th Nov

1st Dec

2nd Dec

3rd Dec

8:00-9:00					
09:00-10:00	Questions and answers	Own work		Exam	
10:00-11:00	Questions and answers	Own work		Exam	
11:00-12:00	Own work	Own work		Exam	
12:00-13:00	Lunch	Lunch		Exam	
13:00-14:00	Own work	Own work			
14:00-15:00	Own work	Own work			
15:00-16:00	Own work	Own work			
16:00-17:00	Own work	Own work			

TP3

Re-examination

7th of January 8-13