

Water Management, BIOR 66, 25 March - 7 June, 2019

Dept. of Biology, <http://www.biology.lu.se/education>

Welcome to the course in Water Management! This course integrates theoretical knowledge within aquatic ecology and hydrology with practical water management. It is therefore a course with a very applied perspective! Using a combination of lectures in the beginning of the course, many study visits, field trips, practical training, seminars and a large final practical group project, you will obtain a thorough knowledge of the areas that you are supposed to master when working within water management. You will also get a good insight into the work of authorities and consulting companies engaged in water management in Sweden. The teaching will be put in the perspective of Swedish and international water management policies.

Course leader: Per Carlsson, 046-2228435, 076-0242443, per.carlsson@biol.lu.se

Other Teachers: Per Nyström, Marika Stenberg, Pia Hertonsso, Linda Parkefeldt, Anders Nilsson, Karin Jönsson, Anders Persson, Olof Berglund + representatives from the county Administration Board and several municipalities.

Location: see web schedule at L@L

Teaching activities: L (lecture), Sem (seminar), G (group exercise), Lab, Proj (Project), Ind (Individual work)

Compulsory activities on this course are marked with "C". If you are absent from a compulsory activity without a valid reason you are not guaranteed to complete this part until the next time the course is offered. A valid reason can be e.g. that you are ill, but not that you are on a trip!

Literature: scientific articles and other handouts during the course

Before the start of the course you must read the documents "General information" and Plagiarism and Cheating

[General information](#)

[Plagiarism and Cheating](#)

Additional information for students can be found at

[Current student at LU](#)

[Current student at Dept. of Biol.](#)

[Students rights and guidelines](#)

Learning platform: L@L

Date	Time	Activity	Compulsory	Description	Teacher
Mo. 25 March	09.15-10.00	Intro	C	Introduction, Compulsory!	PC
Mo. 25 March	10.30-12.00	L	C	EU Water Framework Directive (WFD)	PC
Mo. 25 March	13.00-16.00	G	C	Reading WFD articles + preparing presentations	PC
Tu. 26 March	09.15-12.00	G	C	Reading WFD articles + preparing presentations	PC
Tu. 26 March	13.00-16.00	Sem	C	Presentations of WFD-articles + distribution of articles for next literature seminar	PC
We. 27 March	09.15-12.00	L		Water cycle and management outside WFD	LP
We. 27 March	13.00-16.00	L		Wetlands: construction, nutrient retention and biodiversity	PN
Th. 28 March	09.15-12.00	L		Acidification: freshwater and marine	PC
Fr. 29 March	08.00-13.00	G	C	Reading articles wetlands, acidification, lake and coastal restoration etc	
Mo. 1 April	09.15-12.00	L		Lake and coastal restoration	PN/PC
Mo. 1 April	13.00-16.00	G	C	Management of invasive crayfish (+ computer exercise)	PN
Tu. 2 April	09.15-12.00	L	C	Fish management	AP
Tu. 2 April	13.00-16.00	G	C	Reading articles wetlands, acidification, lake and coastal restoration etc	
We. 3 April	09.15-13.00	Exc	C	Water management in practice: Skåne County Adm Board Malmö	PC
Th. 4 April	09.15-12.00	G	C	Preparing presentations of articles	PC
Fr. 5 April	09.15-15.00	Sem	C	Presentations of articles	PC/PN
Mo. 8 April	09.15-09.30	L	C	Introduction to individual project	PC
Mo. 8 April	09.15-12.00	L		Water and sewage treatment	KJ
Mo. 8 April	13.00-16.00	L		Organic pollutants	OB
Tu. 9 April	09.15-12.00	L	C	Ecosystem services and Water Framework Directive + exercise	PN
Tu. 9 April	13.00-16.00	L		How to become better at oral presentations	AN
We. 10 April	09.15-12.00	Sem	C	Workshop: water cycle and water quality + water quiz	LP/PC
We. 10 April	13.00-16.00	Ind	C	Individual project	
Th. 11 April	08.00-12.00	Exc	C	Waste water treatment plant	PC
Fr. 12 April	09.15-16.00		C	River restoration and status classification + deadline title individual project	MS/PH

Mo. 15 April	09.15-16.00		C	Individual project	
Tu. 16 April	09.15-16.00		C	Individual project	
We. 17 April	09.15-16.00		C	Individual project	
Th. 18 April				Easter holiday	
Fr. 19 April				Easter holiday	
Mo. 22 April				Easter holiday	
Tu. 23 April	09.15-16.00			Individual project - student feed-back in groups	
We. 24 April	08.15-17.00			Excursion Trelleborg Municipality	PC et al.
Th. 25 April	09.15-16.00			Ind proj Presentations with feed-back	PC
Fr. 26 April	09.15-12.00			Ind proj Presentations with feed-back	PC
Mo. 29 April				No activity	
Tu. 30 April				No scheduled classes, Valborg	
We. 1 May				Holiday, May 1'st	
Th. 2 May				No activity	
Fr. 3 May	09.15-11.00	L	C	Intro to GIS (not compulsory if you have taken GIS-classes before)	MS/PH
Fr. 3 May	11.00-16.00	L	C	Habitat mapping and stream restoration + exercise	MS/PH
Mo. 6 May	08.00-16.00	L	C	Excursion Höör/Hörby Municipalities	PC/LP/PN et al.
Tu. 7 May	08.00-18.00	Exc	C	Habitat mapping and stream restoration - excursion	MS/PH
We. 8 May	09.15-16.00	Proj	C	Habitat mapping and stream restoration - group exercise	MS/PH
Th. 9 May	09.15-12.00	Proj	C	Habitat mapping and stream restoration - group exercise	MS/PH
Fr. 10 May	09.15-16.00	Proj	C	Habitat mapping and stream restoration - group exercise	MS/PH
Mo. 13 May	09.15-12.00	Proj	C	Deadline delivery written report 12.00. Report back with comments 16.00	
Tu. 14 May	09.15-16.00	Proj	C	Reworking report and preparing presentations	
We. 15 May	09.15-16.00	Sem	C	Habitat mapping and stream restoration - presentations	MS/PH
Th. 16 May	09.15-12.00	Ind		Preparing for home exam	
Fr. 17 May	09.15-16.00	Exam	C	Home exam	
Mo. 20 May	09.15-16.00	Proj	C	Introduction to final group projects + starting!	MS/PH/PN/PC
Tu. 21 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
We. 22 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
Th. 23 May	09.15-12.00	Proj	C	Group Projects	MS/PH/PN/PC
Fr. 24 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
Mo. 27 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
Tu. 28 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
We. 29 May	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
Th. 30 May				Holiday, Ascension Day	
Fr. 31 May				Holiday, Ascension Day	
Mo. 3 June	09.15-16.00	Proj	C	Group Projects	MS/PH/PN/PC
Tu. 4 June	09.15-16.00	Proj	C	Group Project deadline of report delivery 12.00. Report back with comments	MS/PH/PN/PC
We. 5 June	09.15-16.00	Proj	C	Group Projects - revision of reports and preparing presentations	MS/PH/PN/PC
Th. 6 June	13.00-17.00			Sweden's National Day	
Fr. 7 June	09.15-16.00	Sem	C	Group Projects - presentations	MS/PH/PN/PC