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Limnology, BIOR17/TEK035, 2 Sept. - 1 Nov., 2019

Department of Biology, Lund University

This course teaches the basic principles of limnology and provide hands-on experience in testing those principles by sampling, analysing and interpreting data from field sampling during excursions to streams and lakes in southern Sweden.

Literature: The Biology of Lakes and Ponds. 3rd edition. Brönmark & Hansson

Course leader: Anders Persson, anders.persson@biol.lu.se, 0730-491964

Other Teachers: MS (Martin Skerlep), JS (Johanna Sjöstedt), Karin Rengefors (KR), CaB (Caroline Björnerås), SG (Susanne Gustafsson), EJ (Emma Johansson), ChB (Christer Brönmark), RG (Raphael Gollnisch, JV (Jerker Vinterstare), TT (Torbjörn Tyler), T-team: AP, JS, MS, RG, JV

Location: see web schedule at L@L

[Learning platform: L@L](#)

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

Compulsory activities 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 is e.g. that you are ill, but not that you are travelling!

Before the start of the course please read the 3 documents at current student, Biology Department:

[Localities: access and regulations](#) [Safety regulations](#) [Plagiarism and cheating policy](#)

Additional information for students can be found at

[Current student at LU](#)

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

[Students rights and guidelines](#)

Date	Time	Activity	Compulsory (mark w. C!)	Description	Teacher
Mo. 2 Sept.	9.15–12.00	L	C	Introduction, Compulsory	AP
Tu. 3 Sept.	9.15–12.00	L		Physical limnology, light and heat	AP
We. 4 Sept.	9.15–12.00	L		Chemical limnology, inorganic carbon and salinity	JS
Th. 5 Sept.	9.15–12.00	L		Nitrogen & phosphorus cycling	JS
	13.00-13.50		C, for all new students at Dept. of Biol.	General information, compulsory for all new students	
	14.00-15.30		C, for new Master's students at Dept. of Biol.	Meet your programme coordinator, compulsory for all new Master's students	
Fr. 6 Sept.	9.15–12.00	L		Competition	AP
	13.15–16.00	Lab	C	Zooplankton, species identification	SG/AP
Mo. 9 Sept.	8.15-12.00	Lab/G	C	Water chemistry lab/Lake data exercise	EJ&RG/JS
	13.15-17.00	Lab/G	C	Water chemistry lab/Lake data exercise	EJ&RG/JS
Tu. 10 Sept.	8.15-12.00	Lab/G	C	Water chemistry lab/Lake data exercise	EJ&RG/JS
	13.15-17.00	Lab/G	C	Water chemistry lab/Lake data exercise	EJ&RG/JS
We. 11 Sept.	9.15–12.00	L		Phytoplankton ecology	KR
	13.15–16.00	Lab	C	Phytoplankton, species identification I	SG, EJ
Th. 12 Sept.	9.15–12.00	L		Eutrophication	KR
	13.00-15.00		C, for all new students at Dept. of Biol.	Lecture: Scientific Writing	Emma Kritzberg
	15.15-16.00		C, for all new students at Dept. Of Biol.	Lecture - Safety, Cheating and Plagiarism	Jep Agrell
Fr. 13 Sept.	9.15–12.00	Sem	C	Water chemistry seminar	JS, AP



	13.15–16.00	Lab	C	Phytoplankton, species identification II	SG, EJ
Mo. 16 Sept.	9.15–12.00	Quiz	C	Water chemistry quiz	AP
Tu. 17 Sept.	9.15–12.00	L		Interactions in benthic habitats	ChB
We. 18 Sept.	9.15–12.00	L		River ecology	ChB
	13.15–16.00	Lab	C	Fish, species identification	AP
Th. 19 Sept.	9.15–12.00	L		Predation	AP
	13.00-15.00		C, for all new students at Dept. of Biol.	Lecture: Library information: Searching and handling sources	Frida Rosengren
Fr. 20 Sept.	9.15–12.00	Lab	C	Macrophytes I	TT
	13.15–16.00	Lab	C	Macrophytes II	TT
Mo. 23 Sept.	9.15–12.00	L		Aneboda & Project introduction	AP
	13.15–16.00	Ind		Project: Gathering literature and data base data	T-team
Tu. 24 Sept.	9.15–16.00	Field	C	Macroinvertebrates	CB, JV
We. 25 Sept.	9.15–16.00	Lab	C	Macroinvertebrates	CB, JV
Th. 26 Sept.	9.15–12.00	L		Size-structured interactions and alternative stable	AP
	13.00-14.30			Information: Exchange studies (in Swedish)	Tina Ledje
Fr. 27 Sept.	9.15–16.00	Ind		Project preparations, literature and data base data	T-team
Mo. 30 Sept.	9.15–12.00	L		Microbial ecology	JS
	13.15–16.00	Ind		Project preparations	T-team
Tu. 1 Oct.	9.15–16.00	Ind		Project preparations	T-team
We. 2 Oct.	9.15–16.00	Ind		Project preparations	T-team
Th. 3 Oct.	9.15–12.00	Sem	C	Field project presentations	T-team
	12.10-13.00			Information: Exchange studies (in English). Bring your lunch...	Tina Ledje
	13.00-14.30		C, for new Master's students at Dept. of Biol.	Applying for spring 2020 courses and alternative courses such as Research projects and Applied work, Compulsory for new Master's students at the Biology dept.	Tina Ledje, Lotta Persmark
Fr. 4 Oct.	9.15–10.00	L		Distribution of plans and manuals	T-team
	10.00–12.00	Ind		Packing equipment	T-team
Mo. 7 Oct.	All day	Proj	C	Aneboda Limnology Excursion	AP, MS
Tu. 8 Oct.	All day	Proj	C	Aneboda Limnology Excursion	AP, MS
We. 9 Oct.	All day	Proj	C	Aneboda Limnology Excursion	AP, MS
Th. 10 Oct.	All day	Proj	C	Aneboda Limnology Excursion	AP, MS
Fr. 11 Oct.	All day	Proj	C	Aneboda Limnology Excursion	AP, MS
Mo. 14 Oct.	9.15–16.00	Proj		Project work, analysing samples	T-team
Tu. 15 Oct.	9.15–16.00	Proj		Project work, analysing samples	T-team
We. 16 Oct.	9.15–16.00	Proj		Project work, writing report	T-team
Th. 17 Oct.	9.15–12.00	Proj		Project work, writing report	T-team
	13.00-17.00			No classes	
Fr. 18 Oct.	9.15–16.00	Proj		Project work, writing report	T-team
Mo. 21 Oct.	9.15–16.00	Proj	C	Project work, Handing in first draft 12.00	T-team
Tu. 22 Oct.	9.15–16.00	Proj		Project work, writing report	T-team
We. 23 Oct.	9.15–16.00	Proj		Project work, writing report	T-team
Th. 24 Oct.	9.15–12.00	Proj	C	Handing in final report 12.00	T-team
	13.00-17.00			No classes	
Fr. 25 Oct.	9.15–14.00	Sem	C	Seminar Field projects	T-team
Mo. 28 Oct.		Ind		Prepare for written exam	
Tu. 29 Oct.		Ind		Prepare for written exam	
We. 30 Oct.		Ind		Prepare for written exam	



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Th. 31 Oct.		Ind		Prepare for written exam	
Fr. 1 Nov.	9.15–13.00			Final exam	
Mo. 4 Nov.				Do the course evaluation, Please!!	