

## **Aquatic Ecology, BIOR68, 15hp, Spring 2012**

### **Course coordinator:**

Emma Kritzberg, 046-2224079, emma.kritzberg@biol.lu.se

**Lectures will be held in the “Meadow” (Ängen) in the Ecology Building. The course introduction is mandatory and will take place in the “Meadow” (Ängen). All teaching activities (group work, exercises, seminars etc.) except for lectures are mandatory.**

**There is no course book. Instead you will use literature that we hand out.**

### **Modules:**

Scientific Methodology  
 Experimental Design  
 Climate Change in Aquatic Ecosystems  
 Induced Defense  
 Environmental Change and Plankton Metabolism  
 Management of the Baltic Sea  
 Individual Literature Project

### **Teachers:**

Coordinator	EK	Emma Kritzberg
Scientific methodology	EK	
Experimental Design	JH	Johan Hollander
Climate Change in Aquatic Ecosystems	EK	
Literature Search	KA	Kristina Arnebrant
Induced Defense	JA	Johan Ahlgren
Environmental Change and Plankton Metabolism	PC	Per Carlsson
Managing the Baltic Sea	EK	
	CB	Christer Brönmark
Individual Literature Project	EK	
	CB	

From 6 – 10/2 you are working independently with individual literature projects. However, during that week there is a PhD course about Climate Change in Aquatic Ecosystems in the department. All the lectures will be open for you and will be presented in a separate schedule. The lectures are given by international top scientists within their respective discipline, and you are a strongly recommended to attend.

<b>Day</b>	<b>Date</b>	<b>Hour</b>	<b>Subject</b>	<b>Activity</b>	<b>Teacher</b>
Mon	16/1	9.15-10.00	Introduction	<b>MANDATORY</b>	EK
		10.30-16.00	Scientific methodology	Discussion and reading	EK, CB
Tues	17/1	09.15-12.00	Scientific methodology	Discussion and exercise	EK, CB
		13.00-16.00	Scientific methodology	Read and analyze	EK, CB
Wed	18/1	09.15-12.00	Scientific methodology	Present/Discuss	EK, CB
		13.00-16.00	Experimental Design (ED)	Lecture	JH
Thu	19/1	09.15-12.00	ED	Exercise	JH
Fri	20/1	09.15-16.00	ED	Experiment	JH
Mon	23/1	09.15-16.00	ED	Data analysis	JH
Tue	24/1	09.15-12.00	ED: prepare presentations	Group work	
		13.00-14.30	ED	Presentations	JH, EK
		15.00-16.00	Presentation technique	Lecture	EK
Wed	25/1	09.15-10.00	Induced defence (ID)	Lecture	JA
		10.00-16.00	ID: Experimental set-up	Group work	JA
Thu	26/1	09.15-12.00	Literature search	Demonstration	KA
		13.00-15.00	<i>Master thesis info</i>		
Fri	27/1	09.15-10.00	Climate Change in Aquatic Ecosystems (CCAS) Brainstorm	Group work	EK
		10.00-16.00	CCAS	Group work	
Mon	30/1	09.15-16.00	CCAS	Group work	
Tue	31/1	09.15-16.00	CCAS	Group work	
Wed	1/2	09.15-16.00	CCAS	Group work	
Thu	2/2	09.15-12.00	CCAS	Presentations	EK
		13.00-15.00	<i>Information about Master thesis projects</i>		
Fri	3/2	09.15-11.00	Individual Literature Project (IPL)	Lecture/Introduction	EK
Mon	6/2	09.15-16.00	ILP		
Tue	7/2	09.15-16.00	ILP	Deadline 13.00!	EK
Wed	8/2	09.15-16.00	ILP	Feedback on choice of ILP	
Thu	9/2	09.15-12.00	ILP		
		13.00-14.30	<i>Information about studies abroad</i>		
Fri	10/2	09.15-16.00	ILP		
		12.00-16.00	Support in literature search		KA
Mon	13/2	09.15-16.00	ILP		
Tue	14/2	09.15-16.00	ID	Group work	JA
Wed	15/2	09.15-16.00	ID	Group work	JA
Thu	16/2	09.15-12.00	ID	Group work	JA
Fri	17/2	09.15-12.00	ID	Group work	
		13.00-16.00	ID	Presentations	JA, EK

Mon	20/2	09.15-12.00 13.00-16.00	ILP ILP: help to find more information		KA
Tue	21/2	09.15-16.00	ILP		
Wed	22/2	09.15-16.00	ILP		
Thu	23/2	09.15-12.00	ILP		
Fri	24/2	09.15-12.00 13.00-16.00	ILP ILP		
Mon	27/2	09.15-12.00 13.00-16.00	ILP Deadline final report 12.00 Prepare presentation/read reports		EK
Tue	28/2	09.15-16.00	Environmental Change and Plankton Metabolism (ECPM)	Lecture, experimental set-up	EK, PC,
Wed	29/2	09.15-16.00	ECPM	Group work	EK, PC
Thu	1/3	09.15-12.00	ECPM	Group work	
Fri	2/3	09.15-16.00	ECPM	Group work, seminar	EK, PC
Mon	5/3	09.00-16.00	ECPM	Group work	EK, PC
Tue	6/3	09.00-16.00	ECPM	Group work	EK, PC
Wed	7/3	09.15-16.00	<i>Arbetsmarknadsdag</i>	NO TEACHING	
Thu	8/3	09.15-12.00	ECPM	Group work	EK, PC
Fri	9/3	09.15-11.00 11.00-16.00	ECPM ILP, prepare presentations/read	Seminar	EK, PC
Mon	12/3	09.15-16.00	ILP Presentations	Seminar	EK, CB
Tue	13/3	09.15-16.00	Management of the Baltic Sea (MBS)		EK, CB
Wed	14/3	09.15-16.00	MBS		
Thu	15/3	09.15-12.00	MBS		
Fri	16/3	09.15-16.00	MBS		
Mon	19/3	11.00	Deadline for debate article		
		11.00-15.00	Post response to debate articles		
Tue	20/3		Feedback on ILP and MBS		EK, CB