



## Conservation Biology BIOR83, 21 Jan. - 22 March, 2019

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

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**Location:** see web schedule at L@L

**ching activities:** Lectures, Seminars, Exercises, Excursion, Group work and Project. Note! Seminars, exercises, excursions and the project are mandatory

**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:** Will be provided.

**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	Teachers
Mo. 21 Jan.	09.30-10.00	Compulsory, I	C	Welcome and introduction (Compulsory)!	Ola Olsson, Maria Blasi
	10.30-12.00	Lecture		What is Conservation Biology? Patterns of biodiversity	Ola Olsson
	13.00-15.00	Exercise	C	What is conservation Biology?	Ola Olsson
Tu. 22 Jan.	09.00-11.00	Lecture		Some concepts and ideas in conservation biology	Ola Olsson
	11.00-12.00	Exercise	C	Conservation values, introduction to assignment	Ola Olsson
We. 23 Jan.	09-00-16.30	Group work		Conservation values (upload reports before 16.30)	Ola Olsson
Th. 24 Jan.	09.00-10.30	Seminar	C	Presentation and discussion, group 1 and 2	Ola Olsson
	10.30-12.00	Seminar	C	Presentation and discussion, group 3 and 4	Ola Olsson
	13.00-14.30			Information om utbytesstudier (in Swedish)	Tina Ledje
Fr. 25 Jan.	09.00-10.15	Seminar	C	Threats to biodiversity	Ola Olsson, Maria Blasi
	10.30-12.00	Lecture		Evidence based conservation	Henrik Smith
Mo. 28 Jan.	09-00-10.30	Lecture		Demography	Jörgen Ripa
	10.30-16.00	Exercise	C	Demography	Jörgen Ripa, Per Lundberg
	Tu. 29 Jan.	09-00-10.30	Lecture	Population dynamics	Jörgen Ripa
	10.30-16.00	Exercise	C	Population dynamics	Jörgen Ripa, Per Lundberg
	We. 30 Jan.	09.00-12.00	Lecture/Exerc	Parameter estimation	Jörgen Ripa, Per Lundberg
	13.00-16.00	Lecture/Exerc	C	PVA	Jörgen Ripa, Per Lundberg
	Th. 31 Jan.	09.00-10.00	Lecture	Sustainable Use	Jörgen Ripa
	10.15-12.00	Exercise	C	Sustainable Use	Jörgen Ripa, Per Lundberg
	Fr. 1 Feb.	09.00-12.00	Exercise	C	Population trend analysis
Mon. 4 Feb.	09.00-10.30	Lecture		Genetic variation and its importance (basic)	Nils Cronberg
	10.30-12.00	Seminar	C	Measures of genetic variation (basic)	Nils Cronberg, Stefan Andersson
	13.00-15.00	Lecture		Marker genes as tools in conservation genetics	Max Lundberg
Tue. 5 Feb.	09.00-12.00	Lecture		Genetic variation and conservation	Stefan Andersson
	13.00-15.00	Lecture		Quantitative genetics in conservation biology	Stefan Andersson
We. 6 Feb.	09.00-10.15	Lecture		Genetic variation and conservation (cont'd)	Stefan Andersson
	10.30-12.00	Lecture		Units of conservation: from genes to species	Stefan Andersson
	13.00-15.00	Lecture		Conservation units and the conservation of polyploid complexes	Mikael Hedrén
Th. 7 Feb.	09.00-12.00	Seminar	C	Conservation genetics	Stefan Andersson



	13.00-15.00		Comp.	Information about Master's degree projects, compulsory for Master's students in Biology	J-Å Nilsson
	13.00-15.00		Comp.	Information about Master's degree projects, compulsory for Master's students in Molecular Biology	Klas Flårdh
Fr. 8 Feb.				study	
Mon. 11 Feb.	9:00-12:00		EXAM 1		Maria Blasi
Tu. 12 Feb.	9:00-12:00	Lecture		Heterogeneous landscapes	Henrik Smith
	13:00-14:00	Lecture		Urban biodiversity	Anna Persson
	14:30-16:00	Exercise	C	Function of Biodiversity	Maria Blasi, Anna Persson
We. 13 Feb.	9:00-9:15	Information	C	How to prepare seminars	Maria Blasi
	9:15-12:00	Exercise	C	Metapopulations	Maria Blasi, Dafne Ram
	13:00-16:00	Exercise	C	Metapopulations	Maria Blasi, Dafne Ram
Th. 14 Feb.	9:00-10:00	Exercise	C	Metapopulations (discussion)	Maria Blasi, Dafne Ram
	10:30-12:00	Exercise	C	Source-sink models	Maria Blasi, Dafne Ram
Fr. 15 Feb.	9:00-12:00	Exercise	C	Source-sink models	Maria Blasi, Dafne Ram
	13:00-15:00	Exercise	C	Source-sink models (discussion)	Maria Blasi, Dafne Ram
Mo. 18 Feb.	9:00-10:45	Seminar	C	Metapopulations and Source-sink dynamics	Maria Blasi, Dafne Ram
	11:00-12:00	Lecture		Spatial aspects of conservation planning	Ola Olsson
	13:00-16:00	Exercise	C	Spatial conservation planning	Ola Olsson, Johanna Yourstone
Tu. 19 Feb.	9:00-11:00	Lecture		Multifunctionality	Henrik Smith
	11:15-12:00	Lecture		Behavioural based models and tools in conservation I	Ola Olsson
	13:00-14:30	Lecture		Behavioural based models and tools in conservation II	Ola Olsson
We. 20 Feb.	9:00-10:00	Seminar	C	Behavioral tools	Ola Olsson, Maria von Post
	10:30-12:00	Lecture		Species distribution models	Ola Olsson
	13:00-16:00	Exercise	C	Species distribution models	Ola Olsson, Carsten Kost
	16:00-17:30			Biologer i utbildning och arbetsliv. Information om akademiska karriärvägar och masterprogram (in Swedish)	Jep Agrell Fredrik Johansson
Th. 21 Feb.	9:00-10:30	Lecture		Seminar natural grasslands	Lars Pettersson
Fr. 22 Feb.	9:00-10:15	Seminar	C	Conservation problems in a changing climate	Johanna Yourstone, Carsten Kost
	10:30-12:00	Lecture		Conservation problems in a changing climate	Henrik Smith
Mo. 25 Feb.	9:00-10:30	Lecture		Conservation problems in marine ecosystems	Johan Hollander
	11:15-12:15	Lecture		Invasive species	Ullrika Sahlin
	13:00-14:30	Exercise	C	Invasive species	Ullrika Sahlin
Tu. 26 Feb.	9:00-10:15	Seminar	C	Corridors and connectivity	Ola Olsson
	10:30-12:00	Lecture		European directives	Maria von Post
	13:00-15:30	Exercise	C	Biodiversity calculations I	Ola Olsson
We. 27 Feb.	9:00-10:30	Seminar	C	Extinction debts	Johan Ekroos
	10:45-12:00	Lecture		Trophic interactions	Ola Olsson
	13:00-15:30	Exercise	C	Biodiversity calculations II	Ola Olsson
Th. 28 Feb.	10:00-11:00	Lecture	C	International Conventions in Biodiversity	Maria Blasi
	11:00-12:00	Exercise	C	European directives and International Conventions in Biodiversity	Maria Blasi, Maria von Post
	13:00-18:00			Re-exam, courses autumn period 2	
Fr. 1 Mar.	9:00-11:00	Lecture		Landsharing/ Landsparing	Johan Ekroos
	11:00-12:00	Lecture		Agroenvironmental Schemes	Yann Clough
	13:00-14:00	Exercise	C	Landsharing/ Landsparing	Johan Ekroos, Yann Clough
Mo. 4 Mar.	9:00-10:30	Seminar	C	Consequences of extinctions, and rewilding	Ola Olsson, Maria Blasi
	10:45-12:00	Lecture		Ecological consequences of bushmeat hunting	Ola Olsson
	13:00-14:30	Lecture		TBA?	
Tu. 5 Mar.	9:00-10:30	Lecture		Reintroduction	Ola Olsson
	10:45-12:00	Seminar	C	Introduction to the project	Ola Olsson, Stefan Andersson, Ma
	13:00-14:00	Seminar	C	Preparation for excursion	Ola Olsson
We. 6 Mar.	9:00-16:30	Excursion	C	Excursion to Eriksberg	Ola Olsson
Th. 7 Mar.				study	
Fr. 8 Mar.				study	
Mo. 11 Mar.	9:00-12:00		EXAM 2		
Tu. 12 Mar.				PROJECT work	
We. 13 Mar.				PROJECT work	
Th. 14 Mar.				PROJECT work	
Fr. 15 Mar.				PROJECT work	
Mo. 18 Mar.				PROJECT work	
Tu. 19 Mar.				PROJECT work	



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We. 20 Mar.				PROJECT work	
Th. 21 Mar.				Upload project reports (deadline: 1pm!)	
Fr. 22 Mar.	9:00-15:00	Seminar	C	Project presentations	Ola Olsson, Stefan Andersson, Ma
Th. 28 Mar.				Do the course evaluation, Please!!	
Th. 25 Apr.	13.00-18.00			Re-exam for this course!	