

2022 Course Schedule for: BI1320 (2 May – 1 June)

# Bees, Apiculture and Pollination

## **Course Leader:**

Barbara Locke [barbara.locke@slu.se](mailto:barbara.locke@slu.se) at the Department of Ecology, SLU.

## **Course Administrator:**

Maria Viketoft [Maria.viketoft@slu.se](mailto:Maria.viketoft@slu.se) at the Department of Ecology, SLU

## **Zoom and Canvas:**

Lectures will be delivered via Zoom and course materials uploaded into CANVAS.

**Note that lectures will start at the times specified** (not 5 minutes after), so please be on time since we will have small discussions throughout the lectures that build on concepts earlier in the lecture. Lectures can often finish earlier than specified.

## **IRL Excursions:**

Excursions in real life will be activities to gain hands-on experience and practical knowledge of the course content. These activities will be conducted in smaller groups outside in open spaces to prevent the spread of covid-19. **The exact dates of these excursions can change due to weather. Bees are not happy in the rain.**

Bihuset = The Honeybee House beside the Knowledge Garden (kunskapsträdgården) on SLU campus  
Sunnerstagopen/SLU = Either at Sunnersta Alpine Center or on SLU campus (to be decided).

## **Language:**

The course is conducted in English.

## **Lecturers on this course:**

BL = Barbara Locke – Honeybee ecologist @ SLU  
EF = Eva Forsgren – Honeybee molecular biologist @ SLU  
JdM = Joachim de Miranda – Honeybee virologist @ SLU  
NK = Naomi Keehnen – Post doc, honeybee genomics @ SLU  
EÖ = Erik Öckinger – Conservation Biologist @ SLU  
ES = Emilia Semberg – Laboratory Technician @ SLU

**\* denotes mandatory participation.**

Day (May)	time	Activity	Type of teaching / Location	Teacher
Mon 2	9:15 – 10:00 10:15 – 11:30  13:15 – 16:00	Introduction <b>Introduction to project work 1 and 2</b>  Honeybee biology	Zoom	BL,  BL
Tues 3	9:15 – 11:30	Evolution of bees and the diversity of solitary bees	Zoom	BL
Wed 4	9:15 – 11:30  13:15 – 16:00	Beekeeping and beekeeping practices  <b>Excursion – Wild bees</b>	  <b>Sunnersta/SLU</b>	BL  <b>BL</b>
Thurs 5	13:15 – 15:00	<b>Excursion – Honeybees</b>	<b>Bihuset</b>	<b>BL</b>
Fri 6		<b>Project work</b>		
7,8				
Mon 9	10:15 – 12:00  13:15 – 15:00	Bumblebees  Bees and conservation biology	Zoom  Zoom	BL  EÖ
Tues 10	10:15 – 12:00  13:15 – 16:00	Pollination Biology  <b>Excursion – Wild bees</b>	Zoom  <b>Sunnersta/SLU</b>	BL  <b>BL,</b>
Wed 11	10:15 – 12:00	Honey bee genetics and breeding	Zoom	NK
Thurs 12	10:15 – 16:00	Demonstrations of wild bee identification (depending on covid restrictions)	Bihuset or department room	BL,
Fri 13	L	<b>Project work</b>		
14,15				
Mon 16	13:15 – 15:00	Bee disease part 2) Viruses, Parasites Pests	Zoom	JdM
<b>Tue 17</b>	10:15 – 15:00	<b>Excursion – honeybees</b>	<b>Bihuset</b>	<b>BL</b>
Wed 18	10:15 – 12:00  13:15-15:00	Bee disease part 1) Epidemiology, Bacterial diseases  Demonstration of the bee lab at SLU and bee diseases	zoom  Pre-recorded films in Canvas	EF  EF, ES
Thur 19	10:15 – 12:00 13:15 – 15:00	More than honey film Discuss film	Found on Canvas Zoom	EF,JdM
Fri 20		<b>Project work</b>		
21,22				
Mon 23	<b>10:15-15:00</b>	<b>Excursion – Honeybees</b>	<b>Bihuset</b>	<b>BL</b>
Tues 24		<b>Project work</b>		
Wed 25		<b>Hand in project work 1*</b>	Canvas	
<b>Thur 26</b>		<b>Kristi himmelfärdsdag</b>		
Fri 27		<b>Project work</b>		

28, 29				
Mon 30		<b>Hand in project work 2*</b>	Canvas	
Tue 31	9:15 – 12:00	<b>Presentations of project work 2*</b>	Zoom	JdM; EF, BL
	13:15 – 15:00			
(June) Wed 1	9:15 – 15:00	<b>Presentations of project work 2*</b>	Zoom	JdM; EF, BL
<b>Have a nice summer!</b>				