2023 Course Schedule for: BI1320 (May 2 – June 1)

**Bees, Apiculture and Pollination**

**Course Leader:**
Barbara Locke barbara.locke@slu.se at the Department of Ecology, SLU.

**Course Administrator:**
Maria Viketoft Maria.viketoft@slu.se at the Department of Ecology, SLU

**Language:**

The course is conducted in English.

**Lecturers on this course:**

BL = Barbara Locke – Honeybee ecologist @ SLU

NK = Naomi Keehnen – Post doc, honeybee genomics @ SLU

NS = Nick Scaramella – PhD student with honeybees @SLU

SH = Svenja Horstmann – Conservation biologist @ SLU

AN = Anna Nielsson – Post doc, molecular biology @ SLU

OL = Ola Lundin – Agricultural ecologist @SLU

**Lectures and Excursions:**

Lectures and course materials will be 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.

Excursions will be activities to gain hands-on experience and practical knowledge of the course content. These activities will be conducted outside and therefore the scheduling of these excursions can change due to weather. Bees are not happy in the rain.

**Locations:**

Bihuset = The Honeybee House beside the Knowledge Garden (kunskapsträdgården) on SLU campus

Sunnerstagropen/SLU = Either at Sunnersta Alpine Center or on SLU campus (to be decided).

F-salen = a lecture room in the ecology centre on the second floor of the F-corridor. From the bear head towards the eagles and take a sharp left up the stairs.

**\* denotes mandatory participation.**

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| **Day****(May)** | **time** | **Activity** | **Type of teaching / Location** | **Teacher** |
| Tues 2 | 9:00 – 10:0013:00 – 16:00 | Introduction to course and project workEvolution of bees and the diversity of solitary bees | F-salen | BL, NSBL |
| Wed 3 | 9:00 – 11:30 | Honey bee biology | F-salen | BL |
| Thu 4 | 9:00 – 11:30 13:00 – 16:00 | Beekeeping and beekeeping practices**Excursion – Honeybees** |  F-salenBihuset | NSBL, NS |
| Fri 5 |  | **Project work**  |  - |  |
| 6,7 |  |  |  |  |
| Mon 8 | 10:00 – 12:00 13:00 – 15:00 | Bumblebees Bees and conservation biology | F-salenF-salen | BLSH |
| Tues 9 | 10:00 – 12:00 13:00– 16:00 | Pollination Biology **Excursion – Wild bees** | F-salenSLU campus | OLBL, NS, SH |
| Wed 10 | 10:00 – 16:00 | Wild bee identification |  | BL, SH |
| Thu 11 | 10:00 – 12:00 | **Excursion – Honeybees** | Bihuset | BL,NS |
| Fri 12 |  | **Project work** | - |  |
| 13,14 |  |  |  |  |
| Mon 15 | 13:00 – 15:00 | Bee disease part 1) Viruses, Parasites Pests | F-salen | NS |
| Tue 16 | 13:00 –15:00 | **Excursion – honeybees** | Bihuset | BL, NS |
| Wed 17 | 10:00 – 12:00 13:00-15:00 | Bee disease part 2) Bacterial diseases, Fungi, EpidemiologyDemonstration of the bee lab at SLU and bee diseases | F-salenBilab | ANAN |
| Thu 18 |  | **Kristi himmelsfärdsdag**  | - |   |
| Fri 19 |  | **Project work** | - |  |
| 20,21 |  |  |  |  |
| Mon 22 | 10:00 – 12:0013:00-15:00 | Honey bee genetics and breedingHoney bee immunity | F-salenF-salen | NK |
| Tues 23 | 13:00-15:00 | More than honey film & discussion | Canvas |  |
| Wed 24 | 12:00 | **Hand in project work 1\*** | Canvas |  |
| Thu 25 | 10:00- 15:00 | **Excursion – Honeybees – Honey extracting** | Bihuset | BL,NS |
| Fri 26 |  | **Project work** |  |  |
| 27,28  |  |  |  |  |
| Mon 29 |  | **Project work** |  |  |
| Tue 30 | 9:00 – 16:00 | **Presentations of project work 2\*** | F-salen | BL, NS,  |
| Wed 31 |  |  |  |  |
| Thu JUNE 1 | 9:00-12:00 | **EXAM**  | F-salen | BL |
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| **Have a nice summer!**  |