



The Hebrew University of Jerusalem

Syllabus

APICULTURE - 71524

Last update 08-09-2025

HU Credits: 5

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Agroecology & Plant Health

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Yossi Slabezki

Coordinator Email: Slabezki@gmail.com

Coordinator Office Hours: By appointment

Teaching Staff:

Yoseph Slavetzki,
Neta Levine,
Meray Kadee

Course/Module description:

The course focuses on beekeeping year round, including handling, monitoring and evaluation of hive health. In addition emphasis is given to crop pollination by honeybees, Genetic breeding of honey bees and apiary products. The course includes inspection and treatment of the honeybee colonies on campus throughout the semester, lab study of bee pests and diseases and tours visiting apiaries

Course/Module aims:

To provide an applied and basic approach to beekeeping in Israel and abroad, taking into consideration the complex interacting factors involved in colony collapse worldwide.

Learning outcomes - On successful completion of this module, students should be able to:

- A comprehensive understanding of bee keeping, with an emphasis for research.
- The ability to diagnose and treat pests and diseases in the laboratory, hive and apiary.
- Evaluate and compare honeybee colonies for pollination and breeding.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: lectures, labs, handling and sequential monitoring of hives on campus and visiting commercial apiaries.

Course/Module Content:

Development of modern commercial beekeeping.
Beekeeping around the world.
Honey bees as social insects.
The annual life cycle of the honey bee colony.
Beekeeper activities during the year.
Honey bee nutrition and grazing.
Pest and diseases.
Queen rearing, breeding and honey bee races.
Crop pollination.

Extracting and handling of honey.
Tour in the south visiting a large commercial apiary and a breeding apiary.
Tour in the north, with emphasis on pollination of crops, transport of hives,
computing and modern extracting systems.
Apiary products.

Required Reading:

None

Additional Reading Material:

Ball 1991, Honey Bee Pathology, Academic Press.
Crane E. 1990, Bees and Beekeeping, Heinemann Newness.
Graham J. M. 1992, The Hive and the Honey Bee, Dadant & Sons.
Morse R. A. and T. Hoper 1985, The Illustrated Encyclopedia of Beekeeping, Dutton, Inc.
Morse R. A. and K. Flottum 1997, Honey Bee Pests, Predators, and Diseases, Published by the A. I. Root company Medina, Ohio, U.S.A.
Rinderer T. E. 1986, Bee Genetics and Breeding, Academic Press, London.
Webster T. C. and Delaplane K. S. 2001, Mites of the Honey Bee, Dadant & Sons. Hamilton, Illinois.

כתבי עת:

• ילקוט המכורות.

- *Journal of Apicultural Research and Bee World*
- *Apidologie.*
- *Bee Culture.*

Grading Scheme:

Written Exam % 60

Essay / Project / Final Assignment / Home Exam / Referat 20 %

Presentation / Poster Presentation / Lecture 20 %

Additional information:

The course is limited to 30 students