TEL AVIV UNIVERSITY אוניברסיטת תל אביב

Full Syllabus

Course Title

Plant Ecology

Lecturer

Michal Gruntman

Semester

B

Course requirements

Previous participation in an introductory ecology course, attendance in at least 80% of the classes

Final grade components

Exercises (20%) and final home assignment (80%)

Course schedule

Class no. / Date	Subject and Requirements (assignments, reading materials, tasks, etc.)
1	Plant life history strategies: phenology, mating systems, trade-offs, allometry and bet-hedging.
2	Pollination ecology: floral traits and pollination syndromes.
3	Pollination ecology: flower constancy and deception.
4	Herbivory: evolution of resistance and tolerance, induced defenses
5	Herbivory: effects on community productivity, diversity and species composition.
6	Intraspecific competition: size hierarchies and size-asymmetric competition.
7	Interspecific competition: models of interspecific competition, competition indices and competitive effect and response.
8	Facilitation: positive plant-plant interactions and environmental effects.
9	Seed dispersal: dispersal mechanisms and seed and fruit traits.
10	Seed dispersal: costs of dispersal, heterocarpy and community level implications.
11	Interactions with soil biota: evolution of mutualistic interactions with fungi and bacteria, environmental effects, punishment and reward and effects on plant competition.

Required course reading

Will be provided during the course

Optional course reading

- Keddy P, Plant Ecology: Origins, Processes, Consequences (Cambridge University Press, 2017).
- Crawley MJ, Plant Ecology (Oxford: Blackwell Science, 1997).

Comments