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Plant Ecology

Lecturer

Michal Gruntman

Semester

В

Course requirements

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

Final grade components

Exercise in the botanical garden and its presentation in class (20%) and final exam (80%)

Course schedule

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

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).