

Desert Studies

Semester: 2025-B

Agriculture and Biotechnology of Drylands

A

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0153 G1	Dr. Chris Arnush, Dr. Scott Hansen	Writing a Scientific Paper - Goup 1	2	Tue	13:00-15:00	Sde Boker	School	1	Students are required to complete the course in their second semester of studies
001-2-0153 G2	Dr. Chris Arnush, Dr. Scott Hansen	Writing a Scientific Paper - Group2	2	Mon	09:00-11:00	Sde Boker	School	1	Students are required to complete the course in their second semester of studies
470-2-0100	prof. Roi Gazit and Dr. Shira Ovadia	The Care and Use of Animals in Research	0			Online program			2024-1/2 פתוח**
900-5-2002	Online Program	Training in Chemical & Biological Safety	0			Online program			2024-1 לא פתוח*
900-5-5001	Online Program	Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment	0			Online program			2024-1 לא פתוח*

B Core courses - Students are required to attend four core courses selected from all core courses

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2005	Prof. Jhonathan Ephrath	Plant Physiology under Stress	2	Tue	09:00-11:00	Sde Boker	School	2	
001-2-2035	Prof. Naftali Lazarovitch	Crop Irrigation Regimes	3	Tue	15:00-18:00	Sde Boker	Biology	32	Home Exam
001-2-2065	Prof. Aaron Fait	The Physiology and Metabolism of Fruits: Genetics Vs Environment	4	Mon	12:00-15:30	Sde Boker	Biology	32	

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C Seminars and Thesis Writing - Mandatory Courses

Students are required to attend Departmental Seminars (one seminar per semester)

Students are required to present two seminars (one student seminar per year)

In the third and fourth semesters, students must register for Thesis Writing

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-1000		Thesis Writing - Continuation	0						Mandatory for students on study extension
001-2-2222	Dr. Gilad Gabai (coordinator)	Departmental Seminar	0	Wed	11:30-12:30	Sde Boker	Old Admin. Build.	1	Mandatory each semester. 4 times during the degree
001-2-2666	Prof. Shimon Rachmilevitch	Students Seminar (first year)	0.5	Wed	09:00-10:00	Sde Boker	Biology	32	
001-2-2667	Prof. Shimon Rachmilevitch	Student Seminar (second year)	0.5	Wed	09:00-10:00	Sde Boker	Biology	32	
001-2-9991		Thesis Writing - A	6						Mandatory for students on their 3rd semester
001-2-9992		Thesis Writing -B	6						Mandatory for students on their 4rd semester

D

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2006	Prof. Naftali Lazarovitch&Dr. Ran Erel	Mechanistic Approach to Plant Nutrition	2	Mon	09:00-11:00	Sde Boker	Biology	32	This course will be taught once every 2 years
001-2-2021	Prof. Dina Zilberg	Aquatic Animal Health	3	Thu	08:30-11:00	Sde Boker	Biology	32	
001-2-2025	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (A) (Prerequisite: Theoretical fish diseases course)	1			Sde Boker			for schedule please contact the lecturer
001-2-2026	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (B) (Prerequisite: Theoretical fish diseases course)	1			Sde Boker			for schedule please contact the lecturer

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Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2027	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (C) (Prerequisite: Theoretical fish diseases course)	1			Sde Boker			for schedule please contact the lecturer
001-2-2028	Prof. Shmuel Appelbaum	Guided Reading on Economical Utilization of Food Industry Wastes as Aquaculture Feeds, Particularly in Arid lands	2			Sde Boker			for schedule please contact the lecturer Guided reading course - limited to two students
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	12:30-15:00	Sde Boker	Biology	32	
001-2-2049	Prof. Noemi Tel-Zur	Physiology, Reproduction and Use of Cactus Species	2	Tue	13:00-15:00	Sde Boker	Biology	32	
001-2-2054	Prof. Shimon Rachmilevitch	Guided Reading on Topics in the Ecophysiology of Desert Plants	2			Sde Boker			Guided reading course - limited to two students. for schedule and approval please contact the lecturer
001-2-2067	Prof. Jhonathan Ephrath	Understanding and Modeling of Agricultural Systems - Guided reading	2	Tue	11:00-13:00	Sde Boker			please contact the lecturer
001-2-2069	Prof. Inna Khozin-Goldberg	Lipid Biochemistry of Microalgae and Plants	3	Thu	11:00-14:00	Sde Boker	Biology	32	
001-2-2078	Prof. Noemi Tel-Zur	Principles and Practice of Microscopy	2	20-24/07/2025	09:00-15:00	Sde Boker	Biology	32	A five-day Intensive course offered during the Summer Break, July 20-24, 2025.09:00-15:00, laboratory and Agriculture Building, Room 32
001-2-2080	Dr. Nina Kamennaya	Physiology of aquatic microbes	3	Wed	13:00-16:00	Sde Boker	Physics	Seminar Room	
001-2-2289	Prof. Simon Barak	Guided Reading on Molecular and Systems Biology Approaches to Plant Stress Tolerance Research	2			Sde Boker			Guided reading course - limited to two students
001-2-2290	Prof. Dina Zilberg	Guided Reading on Aquatic Animal Health	2			Sde Boker			Guided reading course - limited to two students

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Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2303	Dr. Gilad Gabai	Functional Genomic Approaches in Plant Breeding	2	Thu	10:00-12:00	Sde Boker	Biology	136	
001-2-3047	Prof. Merav Seifan	Global Changes and the biodiversity crisis	2	Tue	13:00-15:00	Sde Boker	Biology	136	
001-2-3086	Prof. Hadas Hawlena	Microbial Ecology from the Ecologist Point of View	3	Tue	09:00-12:00	Sde Boker	Biology	32	

E General courses (2-3 credits point in total)

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3			Online			Online course. Frontal exam in Sde-Boker campus
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:00-12:00	Sde Boker	School	Computer Room	