

Desert Studies

Semester: 2023-A

Agriculture and Biotechnology of Drylands

A

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0153	Dr. Chris Arnush, Dr. Scott Hansen	Writing a Scientific Paper	2	Tue	13:15-15:00	Sede Boqer	Water Inst.	15	Students are required to complete the course in their second semester of studies
470-2-0100	prof. Roi Gazit and Dr. Shira Ovardia	The Care and Use of Animals in Research	0						MANDATORY for Students Who Work with Animals once per degree
900-5-2002	Online Program	Training in Chemical & Biological Safety	0						MANDATORY for Students Who Work in Chemical and Biological Labs (Students should take the course every year)
900-5-5001	Online Program	Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment	0						MANDATORY for all students on the first year

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
001-2-2017	Prof. Simon Barak	Plant Perception, Transduction and Response to Environmental Signals (limited to 10 students)	2	Thu	10:15-12:00	Sede Boqer	Biology	32	
001-2-2036	Prof. Gideon Grafi	Molecular Biology and Epigenetics	2	Sun	08:30-10:00	Sede Boqer	Biology	32	Home Exam
001-2-2055	Dr. Yaron Sitrit	Genetic and Physiological Regulation of Fruit Ripening	2	Mon	11:15-13:00	Sede Boqer	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
001-2-1011		Writing Thesis - Continuation	0						Mandatory for students on study extension
001-2-2222	Dr. Nina Kamennaya&Dr. Ilya Gelfand (Coordinators)	Departmental Seminar	0	Wed	11:30-12:30	Sede Boqer	Old Admin. Build.	1	Mandatory each semester. 4 times during the degree
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	Tue	09:15-11:00	Sede Boqer	Biology	136	This course will be taught once every 2 years
001-2-2015	Prof. Dina Zilberg, Prof. Amit Gross	Introduction to Aquaculture	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	10	
001-2-2025	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (A) (Prerequisite: Theoretical fish diseases course)	1						for schedule please contact the lecturer
001-2-2026	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (B) (Prerequisite: Theoretical fish diseases course)	1						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						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						Guided reading course - limited to two students
001-2-2040	Prof. Gideon Grafi	Lab Course in Epigenetics	4	12-16.02.2023					A five-day concentrated course offered during the fall break
001-2-2043	Prof. Shimon Rachmilevitch	Plant Stress Indications: Methods and Instrumentation	2	27.02-01.03.2023					A 3-day concentrated workshop offered during the fall break
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	08:30-11:00	Sede Boqer	Biology	136	
001-2-2054	Prof. Shimon Rachmilevitch	Guided Reading on Topics in the Ecophysiology of Desert Plants	2						Guided reading course - limited to two students
001-2-2056	Prof. Inna Khozin-Goldberg	Guided Reading on Advanced Topics in Plant and Microalgae Lipid Biochemistry	2			Sede Boqer			Guided reading course - limited to two students
001-2-2066	Prof. Aaron Fait	Metabolomics Laboratory	2	5-9.02.2023					A five-day concentrated course offered during the fall break
001-2-2067	Prof. Jhonathan Ephrath	Understanding and Modeling of Agricultural Systems - Guided reading	2	Tue	10:00-12:00	Sede Boqer	Biology	32	
001-2-2070	Prof. Inna Khozin-Goldberg	Biology and Biotechnology of Microalgae	3	Tue	12:15-15:00	Sede Boqer	Biology	32	
001-2-2075	Dr. Ilya Gelfand	Terrestrial Biogeochemistry	3	Mon	08:15-11:00	Sede Boqer	Biology	32	
001-2-2076	Dr. Nina Kamennaya	Practical Environmental Cytometry	2.5	26.02-02.03.2023					Concentrated course: (08:00 - 17:00) 5 days course offered during the Fall Break, 26.02-02.03.2023

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Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2078	Prof. Noemi Tel-Zur	Principles and Practice of Microscopy	2	19-23.02.2023		Sede Boqer			A five-day Intensive course offered in the FALL Break, February 19-23, 2023.09:00-15:00, laboratory and Agriculture Building, Room 32. Course registration takes place during the registration period of the spring semester
001-2-2079	Prof. Vered Tzin	Chemical Ecology Spring workshop	2	12-14.02.2023		Sede Boqer			3 days concentrated course offered during the Fall break
001-2-2203	Dr. Gilboa Arye	Adsorption and Reactivity of Chemicals in Soils	3	Mon	15:15-18:00	Sede Boqer	Biology	32	
001-2-2205	Dr. Ido Regev	Modeling in the Earth Sciences	3	Thu	12:15-15:00	Sede Boqer	Physics	Seminar Room	
001-2-2206	Prof. Arnon Karnieli and Dr. Manuel Salvoldi	Earth observation missions for agricultural monitoring	3	Sun	10:15-13:00	Sede Boqer	Biology	Seminar Room	
001-2-2289	Prof. Simon Barak	Guided Reading on Molecular and Systems Biology Approaches to Plant Stress Tolerance Research	2						Guided reading course-limited to two students
001-2-2290	Prof. Dina Zilberg	Guided Reading on Aquatic Animal Health	2						Guided reading course - limited to two students
001-2-2302	Dr. Ilya Gelfand	Guided Reading on Ecosystem Ecology and Biogeochemistry	2						Guided reading course - limited to two students
001-2-5055	Prof. Naftali Lazarovitch, Prof. Ofer Dahan	Operation and Analysis of Environmental Monitoring Systems	1	19-21.02.2023	09:00-14:00	Sede Boqer			A semi concentrated course offered during the FALL break. Registration period of the spring semester

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

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001-2-1200	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy – Podcast production course	2	12-16.02.2023					A five day concentrated course offered during the fall break
001-2-3001	Prof. Ariel Novoplansky	Evolutionary Ecology of Phenotypic Plasticity. Prerequisite: Introduction to Ecology or Introduction to Biology or Equivalent Courses	3	Tue	17:15-20:00	Sede Boqer	Biology	136	
001-2-3021	Prof. Itamar Giladi	Biostatistics: Class (can be completed during the program)	3	Tue	08:30-10:00	Sede Boqer	Biology	32	Home Exam.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students
001-2-3021 EX	Prof. Itamar Giladi	Biostatistics: Exersice (can be completed during the program)		Wed	09:15-11:00	Sede Boqer	School	Computer room	Home Exam.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students
001-2-3079	Prof. Ariel Novoplansky	Scientific Presentation (Group A)	2	Wed	11:15-13:00	Sede Boqer	Biology	32	
001-2-3079 GB	Prof. Ariel Novoplansky	Scientific Presentation (Group B)	2	Wed	13:15-15:00	Sede Boqer	Biology	32	
001-2-4016	Dr. Leah Orlovsky	Geography of Desertification	2	Sun	12:15-14:00	Sede Boqer	Physics	1	
001-2-4029	Prof. Yosef Ashkenazy	Introduction to statistics and probability using Python	3	Mon	10:15 -13:00	Sede Boqer	Physics	Seminar Room	
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3						Online course