

# Desert Studies

Semester: 2024-A

## Environmental and Aquatic Microbiology-Old

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 (or 3rd semester)
470-2-0100	prof. Roi Gazit and Dr. Shira Ovadia	The Care and Use of Animals in Research	0			Online program			
900-5-2002	Online Program	Training in Chemical & Biological Safety	0			Online program			
900-5-5001	Online Program	Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment	0			Online program			

### B Core courses (12 credit points)

#### Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-3021	Prof. Itamar Giladi	Biostatistics: Class (can be completed during the program)	3	Tue	08:30-10:00	Sede Boqer	Biology	32	Final exam in a computer lab.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students

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## Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-3021 EX	Prof. Itamar Giladi	Biostatistics: Exercise (can be completed during the program)		Wed	09:15-11:00	Sede Boqer	School	Computer room	Final exam in a computer lab.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	19-28.03.2024	08:30-18:00	Sede Boqer	Water Inst.	10	An eight-day intensive course offered during the fall break Registration during the spring registration period
001-2-5059	Prof. Osnat Gillor	Water Microbiology	3	Sunday	12:15-15:00	Sede-Boqer	Water Institute	Seminar Room	
001-2-5159	Prof. Osnat Gillor	Introduction to Microbiology	1						A semi intensive course for non-biologists who take the 001-2-5059 Water Microbiology course . Schedule will be coordinate between the students and the lecturer

**C Seminars and Thesis Writing -- Mandatory Courses: Students are required to attend Departmental Seminar 4 times (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
001-2-5555	Dr. Avner Ronen (Coordinator)	Departmental Seminar	0	Wed	13:00-14:00	Sede Boqer	Old Admin. Build.	Seminar Room	Mandatory each semester. 4 times during the degree

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## Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
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

**D1 Elective Courses: Students are required to complete at least 8 credits.**

**The student is allowed to select other courses that are related to his/her area of research with the approval of the supervisor.**

## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	Wed	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Frontal Exam
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
001-2-2027	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (C) (Prerequisite: Theoretical fish diseases course)	1						for schedule please contact the lecturer
001-2-2036	Prof. Gideon Grafi	Molecular Biology and Epigenetics	2	Sun	08:30-10:00	Sede Boqer	Biology	32	Home Exam
001-2-2038	Prof. Naftali Lazarovitch	Soil Physics	3	Tue	15:15-18:00	Sede Boqer	Biology	32	Home Exam
001-2-2040	Prof. Gideon Grafi	Lab Course in Epigenetics	4	17-21.03.2024		Sede Boqer	Biology	136	A five-day intensive course offered during the fall break
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	13:00-16:00	Sede Boqer	Biology	136	
001-2-2290	Prof. Dina Zilberg	Guided Reading on Aquatic Animal Health	2						Guided reading course - limited to two students

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## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5028	Prof. Moshe Herzberg	Microbial Biofilms in Water and Wastewater Treatment Processes (prerequisite: Introduction to Microbiology)	2	Tue	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5029	Prof. Noam Weisbrod	Rural Water Development	2	Mon	16:15-18:00	Sede Boqer	Water Inst.	Seminar Room	(minimum 12 students)
001-2-5066	Dr. Scott K. Hansen	Introduction to Scientific Computing with Python	3	Tue	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	
205-2-5021	Prof. Moshe Kiflawi	Methods in Ecology	3	10-11.04.2024 14-16.04.2024		Sede Boqer	School	computer lab	An eight-day intensive course offered during the Fall break in Sede Boqer.

### E Elective Courses II: Students are required to complete at least 3 credits.

The student is allowed to select other courses that are related to his/her area of research with the approval of the supervisor.

## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0016	Prof. Roy Bernstein	Physicochemical Technologies for Water Treatment	2	Mon	14:15-16:00	Sede Boqer	Water Inst.	Seminar Room	Frontal Exam
001-2-3344	Dr. Shirli Bar-David	Guided Reading on Molecular Ecology	2						Guided reading course-limited to two students
001-2-5068	Prof. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2	07-12.04.2024	09:00-15:00	Sede Boqer	Water Inst.	Seminar Room	Intensive workshop offered during the fall break
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3						Online course. Frontal Exam
001-2-5072	Dr. Max Kolton	Discussions in microbial ecology	1	Wed	09:15-10:00	Sede Boqer	Biology	136	

### F General Courses: Students are required to complete up to 4 credits.

## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
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## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-1200	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy – Podcast production course	2	14-19.O4.2024		Sede Boqer	School	1	A five day intensive course offered during the fall break. Registration during the spring registration period. The course will be held contingent upon registration of minimum 4 students
001-2-3079	Prof. Ariel Novoplansky	Scientific Presentation (Group A)	2	Wed	11:15-13:00	Sede Boqer	Biology	A3	
001-2-3079 GB	Prof. Ariel Novoplansky	Scientific Presentation (Group B)	2	Wed	13:15-15:00	Sede Boqer	Biology	A3	
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	Frontal Exam

**for students who began up until March 2022**