

Hydrology and Water Quality

Semester: 2025-A

Water Resources-New

A Mandatory Course

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	Wed	14:00-16:00	Sde Boker	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			Mandatory for students whose research involves working with animals in the lab
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 Students are required to complete all courses in category B

Mandatory 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	14:00-16:00	Sde Boker	Water Inst.	Seminar Room	Frontal Exam
001-2-5059	Prof. Osnat Gillor	Water Microbiology	3	Sun	12:00-15:00	Sde Boker	Water Inst.	Seminar Room	

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
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Water Resources-New

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5159	Prof. Osnat Gillor	Introduction to Microbiology	1	the second week of the spring semester					A semi intensive course during the second week of the first semester for non-biologists who take the 001-2-5059 Water Microbiology course .

C Seminars and Thesis Writing -- Mandatory Courses: Students are required to attend Departmental Seminar 4 tiimes (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
001-2-5555	Dr. Avner Ronen and Dr. Elad Levintal (Coordinator)	Departmental Seminar	0	Wed	13:00-14:00	Sde Boker	Old Admin. Build.	Seminar Room	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

Elective 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

D Students are required to complete at least 7 credits

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
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Water Resources-New

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	2- 11/3/ 2025	08:30-18:00	Sde Boker	Water Inst.	10	An eight-day intensive course offered during the fall break 2-11/3/2025. Registration during the fall registration period
001-2-5006	Dr. Tuvia Turkeltaub	Migration Processes in the Unsaturated Zone of Soil	3	Thu	09:00-12:00	Sde Boker	Water Inst.	Seminar Room	Home Exam
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3						Online course. Frontal exam in Sde-Boker campus

E Students are required to complete at least 8 credits

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	Sde Boker	Water Inst.	10	Frontal Exam
001-2-0027	Prof. Shai Arnon	Flow and water quality in streams: Theory and practice	2	Sun	10:00-12:00	Sde Boker	Water Inst.	10	
001-2-5028	Prof. Moshe Herzberg	Microbial Biofilms in Water and Wastewater Treatment Processes (prerequisite: Introduction to Microbiology)	2	Tue	15:00-17:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5029	Prof. Noam Weisbrod	Rural Water Development	2	Mon	16:00-18:00	Sde Boker	Water Inst.	Seminar Room	(minimum 12 students)
001-2-5030	Prof. Nurit Agam	Hydrometeorology	3	Wed	15:00-17:45	Sde Boker	Biology	136	
001-2-5033	Prof. Avraham Beer	Introduction to Desalination Processes	3	Tue	10:00-13:00	Sde Boker	Water Inst.	10	
001-2-5063	Prof. Edo Bar-Zeev	Lab-course: New Methods in Biofilm Characterization	3	23- 28/2/ 2025	08:30-17:00	Sde Boker	Water Inst.	Seminar Room	An intensive course offered during the FALL break 23-28/2/2025. Home Exam
001-2-5066	Dr. Scott K. Hansen	Introduction to Scientific Computing with Python	3	Tue	10:00-13:00	Sde Boker	Water Inst.	Seminar Room	The course will be held if a minimum of 3 students are registered

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F Students can select up to 3 credits from this category. Alternatively, they can complete these credits with other courses from the program's list.

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	9-13/3/2025		Sde Boker	School	2	A five day intensive course offered during the fall break 9-13/3/2025. Registration during the fall registration period. The course will be held contingent upon registration of minimum 4 students
001-2-3001	Prof. Ariel Novoplansky	Evolutionary Ecology of Phenotypic Plasticity. Prerequisite: Introduction to Ecology or Introduction to Biology or Equivalent Courses	3			Sde Boker			For class schedule please contact the lecturer
001-2-3021	Prof. Itamar Giladi	Biostatistics: Class (can be completed during the program)	3	Tue	08:30-10:00	Sde Boker	Biology	32	Final exam in a computer lab.*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	09:00-11:00	Sde Boker	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
001-2-4029	Prof. Yosef Ashkenazy	Introduction to statistics and probability using Python	3	Mon	10:00 -13:00	Sde Boker	Physics	Seminar Room	Frontal Exam

New - for students who began from November 2024