

Hydrology and Water Quality

Semester: 2026-B

Desalination and Water Treatment-New

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			
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: Students are required to complete 13 credits*.

* Students who previously completed courses that were similar/equivalent to certain courses listed above are required to complete the remainder of the required core course credits by enrolling in courses either from the list of Mandatory Core Courses (C) or from the list of Elective Courses (D) or from a combination of both (with the approval of the student's supervisor and the chairperson of the teaching committee).

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0003	Prof. Oded Nir	Chemistry of Water	3	Thu	09:00-12:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5024	Prof. Ofer Dahan	Groundwater Hydrology	2.5	Wed	10:00-13:00	Sde Boker	School	2	

Desalination and Water Treatment-New

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5059	Prof. Osnat Gillor	Water Microbiology	3	Wed	15:00-18:00	Sde Boker	Water Inst.	Seminar Room	

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 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
001-2-5555	Prof. 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
001-2-9995	Prof. Roy Bernstein (Coordinator)	Student Seminar (first year)	0.5	Wed	09:00-10:00	Sde Boker	Water Inst.	Seminar Room	Mandatory for students on their 1st year
001-2-9996	Prof. Roy Bernstein (Coordinator)	Student Seminar (second year)	0.5	Wed	09:00-10:00	Sde Boker	Water Inst.	Seminar Room	Mandatory for students on their 2nd year

Desalination and Water Treatment-New

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 5 credits in this category

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	TBD	08:30-18:00	Sde Boker	Water Inst.	10	An eight-day intensive course offered the summer
001-2-5036	Prof. Avner Ronen	Environmental micropollutants & emerging contaminants	2	Sun	11:00-13:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Thu	12:00-15:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Tue	16:00-18:00	Sde Boker	Water Inst.	Seminar Room	
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 5 credits in this category

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology (The course will be taught if at least 5 students are enrolled)	2.5	Mon	08:30-11:00	Sde Boker	Water Inst.	Seminar Room	the course will be held if at least 5 students will register
001-2-0015	Prof. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:00-16:00	Sde Boker	Water Inst.	Seminar Room	
001-2-0021	Dr. Christopher Arnusch	Biomimetic Innovation Approaches	3	Mon	14:00-18:00	Sde Boker	Water Inst.	10	
001-2-0032	Dr. Christopher Arnusch	Advanced Chemistry in Water Technologies	3	Tue	09:00-12:00	Sde Boker	Water Inst.	10	
001-2-5010	Prof. Zeev Ronen	Groundwater Microbiology	2	Thu	14:00-16:00	Sde Boker	Water Inst.	10	
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Thu	09:00-11:00	Sde Boker	Water Inst.	10	

Desalination and Water Treatment-New

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5062	Prof. Edo Bar-Zeev	Introduction to Biofilms	3	Tue	10:00-13:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5068	Prof. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2	TBD	09:00-15:00	Sde Boker	Water Inst.	Seminar Room	Six days intensive course offered during the summer
001-2-5070	Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Tue	15:00-18:00	Sde Boker	Water Inst.	10	The course will be held if a minimum of 3 students are registered
001-2-5071	Prof. Gideon Oron	Management and optimization of natural resources and water systems	2	Wed	14:00-16:00	Sde Boker	Water Inst.	10	
001-2-5074	Dr. Elad Levintal	Envirotech - do it yourself sensors for environmental research	3	Sun	15:00-18:00	Sde Boker	Water Inst.	Seminar Room	Course is limited to 8 students
001-2-5076	Dr. Elad Levintal	Do-it-yourself sensors for environmental research – advanced course 2	1.5	Sun	13:00-15:00	Sde Boker	Water Inst.	10	This is a yearly course. Registration is contingent upon the successful completion of the Fall semester course 001.2.5075.

F Students are required to complete at least 4 credits

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	3	Wed	12:30-15:30	Sde Boker	Biology	32	
001-2-5040	Dr. Eli Zaady	Soil Microbial Ecology	2	Sun	08:30-10:30	Sde Boker	School	2	(upon the request of at least 5 students)
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	TBD		Sde Boker	School	Computer Room	Summer course. Registration during the summer registration period.

New - for students who began from November 2024