

# Hydrology and Water Quality

Semester: 2026-A

## Microbiology and Water Quality-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	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			
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 all courses from the list below\*.**

**\* 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 © 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
001-2-0016	Prof. Roy Bernstein	Physicochemical Technologies for Water Treatment	2	Mon	13:00-15:00	Sde Boker	Water Inst.	Seminar Room	Frontal Exam

**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.**

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## 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 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

### D Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 7 credits\*.

\* Mandatory Core Courses can be also selected as Elective Courses (on top of the required 7 credits).

## Mandatory 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	22-26/02/2026 + 01-03/03/2026	08:30-18:00	Sde Boker	Water Inst.	Seminar Room	Eight-day intensive course offered during the Fall Break
001-2-5011	Prof. Zeev Ronen	Environmental Microbiology	3	Thu	15:00-18:00	Sde Boker	Water Inst.	Seminar Room	

### E Elective Courses: Students are required to complete at least 8 credits.

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

## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0017	Prof. Roni Kasher	Polymer Science and Polymeric Membranes	3	Mon	09:00-12:00	Sde Boker	Water Inst.	Seminar Room	Frontal Exam

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## 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	
001-2-2015	Prof. Dina Zilberg, Prof. Amit Gross	Introduction to Aquaculture	3	Tue	12:00-15:00	Sde Boker	Biology	136	
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
001-2-5006	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
001-2-5028	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)
001-2-5063	Prof. Edo Bar-Zeev	Lab-course: New Methods in Biofilm Characterization	3	01-05/03/2026	08:30-17:00	Sde Boker	Water Inst.	15	Five-day intensive course offered during the Fall Break. Home Exam
001-2-5066	Dr. Scott K. Hansen	Introduction to Scientific Computing with Python	3	Tue	10:00-13:00	Sde Boker	School	1	The course will be held if a minimum of 3 students are registered

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## 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 course. Frontal exam in Sde-Boker campus
001-2-5075	Dr. Elad Levintal	Do-it-yourself sensors for environmental research – advanced course 1	1.5	Sun	13:00-15:00	Sde Boker	Water Inst.	Seminar Room	This is a yearly course. Completion of the course is contingent upon registration in both the fall (001.2.5075) and spring semesters under course number 001.2.5076.
001-2-5077	Prof. Gideon Oron	Advanced Management and Optimization of Water Systems and Wastewater Reclamation	2	Wed	08:30-10:30	Sde Boker	Water Inst.	10	Pre-requisite course 001.2.5071

## F General Courses:

Students are required to complete 2-3 credits.

## 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	22-26/02/2026		Sde Boker	School	1	Five-day intensive course offered during the Fall Break. The course will be held contingent upon registration of minimum 4 students
001-2-4029	Prof. Yosef Ashkenazy	Introduction to statistics and probability using Python	3	Wed	09:00 -12:00	Sde Boker	Physics	Seminar Room	Frontal Exam
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

Old-for students who began up until April 2024