

# Hydrology and Water Quality

Semester: 2025-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			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 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	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	

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## Mandatory 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 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 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
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## 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	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
001-2-5011	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	11:00-14:00	Sde Boker	Water Inst.	Seminar Room	Frontal Exam
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

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## Elective 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	09:00-11:00	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	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
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3						Online course. Frontal exam in Sde-Boker campus

## F General Courses:

Students are required to complete 2-3 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	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
001-2-4029	Prof. Yosef Ashkenazy	Introduction to statistics and probability using Python	3	Mon	10:00 -13:00	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**