

Hydrology and Water Quality

Semester: 2025-B

Microbiology and Water Quality-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			2024-1/2 פתוח**
900-5-2002	Online Program	Training in Chemical & Biological Safety	0			Online program			2024-1 לא פתוח ב*
900-5-5001	Online Program	Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment	0			Online program			2024-1 לא פתוח ב*

B Students are required to complete all courses from the category list

Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5024	Prof. Ofer Dahan	Groundwater Hydrology	2.5	Wed	10:00-13:00	Sde Boker	Water Inst.	Seminar Room	

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
001-2-5555	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
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

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 from 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
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	07-16/09/2025	08:30-18:00	Sde Boker	Water Inst.	10	An eight-day intensive course offered during the summer 07-16/09/2025
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Thu	15:00-17:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5062	Prof. Edo Bar-Zeev	Introduction to Biofilms	3	Tue	10:00-13:00	Sde Boker	Water Inst.	Seminar Room	

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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			Online course. Frontal exam in Sde-Boker campus

E Students are required to complete at least 8 credits from this category

Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0009	Prof. Avraham Beer	Physics of Bacterial Communities	3	Mon	11:00-14:00	Sde Boker	Water Inst.	10	
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	
001-2-3086	Prof. Hadas Hawlena	Microbial Ecology from the Ecologist Point of View	3	Tue	09:00-12:00	Sde Boker	Biology	32	
001-2-5012	Prof. Zeev Ronen	Biodegradation Process of Synthetic Organic Compound in Water Soil	2	Thu	10:00-12:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5036	Dr. Avner Ronen	Environmental micropollutants & emerging contaminants	2	Sun	13:00-15:00	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	
001-2-5065	Prof. Shai Arnon	Transport processes in streams: Theory and practice	2	Sun	10:00-12:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5067	Dr. Scott K. Hansen	Introduction to Contaminant Hydrology	3	Mon	13:00-16:00	Sde Boker	Water Inst.	Seminar Room	The course will be held if a minimum of 3 students are registered
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.	Seminar Room	
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

F Students are required to complete 2-3 credits in this category

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Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-4047	Prof. Iris Visoly-Fisher	Surface Science for the Environment	3	Mon	10:00-13:00	Sde Boker	Solar	Seminar Room	
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:00-12:00	Sde Boker	School	Computer Room	

New - for students who began from November 2024

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