

# Hydrology and Water Quality

Semester: 2026-B

## Water Resources-New

## A Mandatory Course

## 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 Students are required to complete all courses in category B**

## Mandatory Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-0003	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	
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
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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 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

## 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 extenstion

**D Students are required to complete at least 7 credits**

# Water Resources-New

## 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	TBD	08:30-18:00	Sde Boker	Water Inst.	10	An eight-day intensive course offered the summer
001-2-5010	Prof. Zeev Ronen	Groundwater Microbiology	2	Thu	14:00-16:00	Sde Boker	Water Inst.	10	
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
001-2-0015	Prof. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:00-16:00	Sde Boker	Water Inst.	Seminar Room	
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Thu	09:00-11:00	Sde Boker	Water Inst.	10	
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	
001-2-5062	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	

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## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
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 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
001-2-6002	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**