

# Hydrology and Water Quality

Semester: 2024-B

## Microbiology and Water Quality

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	13:15-15:00	Sede Boqer	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	09:00-10:45	Sede Boqer	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 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 (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	Tue	10:15-13:00	Sede Boqer	School		1 The course will not be held on 2024-5 academic year!

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## 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	Sede Boqer	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.**

## 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 extenstion
001-2-1011		Writing Thesis - Continuation	0						Mandatory for students on study extenstion
001-2-5555	Dr. Avner Ronen (Coordinator)	Departmental Seminar	0	Wed	13:00-14:00	Sede Boqer	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	09:15-10:00	Sede Boqer	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	09:15-10:00	Sede Boqer	Water Inst.	Seminar Room	Mandatory for students on their 2nd year

**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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# Microbiology and Water Quality

## Mandatory 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	Sede Boqer	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	13-22.02.2024	08:30-18:00	Sede Boqer	Water Inst.	10	An eight-day intensive course offered during the summer. Registration during the spring registration period
001-2-5011	Prof. Zeev Ronen	Environmental Microbiology	3	Sun	15:15-18:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5062	Prof. Edo Bar-Zeev	Introduction to Biofilms	3	Tue	10:15-13:00	Sede Boqer	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
001-2-0009	Prof. Avraham Beer	Physics of Bacterial Communities	3	Mon	11:15-14:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-0015	Prof. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-0021	Dr. Christopher Arnusch	Biomimetic Innovation Approaches	3	Mon	14:15-18:00	Sede Boqer	Water Inst.	10	
001-2-4033	Prof. Isaak Rubinstein	Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (B)	2						schedule will be coordinated between the lecturer and the students
001-2-5010	Prof. Zeev Ronen	Groundwater Microbiology	2	Mon	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Thu	09:15-11:00	Sede Boqer	Water Inst.	10	

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## Elective Courses

Course No	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Rem
001-2-5036	Dr. Avner Ronen	Environmental micropollutants & emerging contaminants	2	Sun	13:00-15:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5040	Dr. Eli Zaady	Soil Microbial Ecology	2	Thu	08:30-10:00	Sede Boqer	14	15	course will be held upon registration of at least 5 students
001-2-5065	Prof. Shai Arnon	Transport processes in streams: Theory and practice	2	Sun	10:00-12:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-5069	MOOC	Water & the Environment: Current challenges and solutions	3						Online course. Frontal exam
001-2-5070	Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Tue	15:15-18:00	Sede Boqer	Water Inst.	10	
001-2-5071	Prof. Gideon Oron	Management and optimization of natural resources and water systems	2	Wed	14:15-16:00	Sede Boqer	Water Inst.	Seminar Room	
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Tue	15:30-18:30	Sede Boqer	School	Computer Room	

## 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	14-19.04.2024		Sede Boqer	School	1	A five day intensive course offered during the fall break. Registration during the spring registration period. The course will be held contingent upon registration of minimum 4 students