

HYDROLOGY AND WATER QUALITY

TIME TABLE FOR THE SPRING SEMESTER (B)- ACADEMIC YEAR 2014/2015

MICROBIOLOGY AND WATER QUALITY

A. Core Courses:

Students are required to complete all courses from the list below*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0003	Dr. Chris Arnusch	Chemistry of Water	3	Sun	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5060	Dr. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Wed	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room

* 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).

B. Seminars and Thesis Writing - Mandatory Courses:

Students are required to attend Departmental Seminars (one seminar per semester) and Student Seminars (one seminar per year).

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-5555	Dr. Chris Arnusch (coordinator)	Departmental Seminar A (first year)	0	Wed	13:00-14:00	Sede Boqer	Old Admin. Build.	Seminar Room
001-2-5557		Departmental Seminar B (first year)						
001-2-5556		Departmental Seminar A (second year)						
001-2-5558		Departmental Seminar B (second year)						
001-2-9995	Prof. Ali Nejdat (coordinator)	Student Seminar (first year)	0.5	Wed	9:00-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-9996		Student Seminar (second year)						

In the third and fourth semesters, students must register for Thesis Writing.

Course No.	Lecturer	Subject	Credits
001-2-9991	--	Thesis Writing A	6
002-2-9992	--	Thesis Writing B	6

Students who have completed the above Thesis Writing courses and who continue their studies for a fifth semester must register for the course.

Course No.	Lecturer	Subject	Credits
001-2-1000	--	Thesis Writing - Continuation	0

C. Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 5 credits*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology	2.5	Sun	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	A 10-day intensive course in the FALL break, 8-12, 15-19.02.2015, 09:00-12:00 (Registration on the SPRING semester)				

* Mandatory Core Courses can be also selected as Elective Courses (on top of the required 5 credits).

D. Elective Courses:

Students are required to complete at least 10 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0009	Dr. Avraham Be'er	Physics of Bacterial Communities	2	Mon	13:15-15:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0012	Prof. Daniel Ronen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity (intensive course)	2	A 3-day intensive course in the SUMMER break, 12-14.07.2015, 08:30-17:00 (Registration on the SUMMER semester)				
001-2-0015	Dr. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0021	Dr. Christopher Arnush	Biomimetic Innovation Approaches	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	A 3-day intensive workshop in the SUMMER break, 18-22.10.2015, 08:00-15:00 (Registration in the SPRING semester).				
001-2-3021	Dr. Merav Seifan	Biostatistics: ANOVA and Design of Experiments	3	Sun	10:15-12:00	Sede Boqer	48	2
		Exercise		Sun	15:15-17:00		Man in the Drylands	Computer Room
001-2-4031	Prof. Isaak Rubinstein	Topics in Physico-Chemical Hydrodynamics and Electrodiffusion – A	2	Flexible- according to the schedules of the students				
001-2-4033	Prof. Isaak Rubinstein	Topics in Physico-Chemical Hydrodynamics and Electrodiffusion – B	2	Flexible- according to the schedules of the students				
001-2-4047	Dr. Iris Visoli-Fisher	Surface Science for the Environment	3	Mon	09:15-12:00	Sede Boqer	Physics	Seminar Room
001-2-5012	Prof. Zeev Ronen	Biodegradation Process of Synthetic Organic Compound in Water Soil	2	Thu	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5026	Prof. Ali Nejdat	Nitrogen Transformations and Environmental Quality	2	Thu	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5040	Dr. Eli Zaady	Soil Microbial Ecology	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room

F. General Courses:

Students are required to complete no more than 2 credits.

001-2-0153	Ms. Ayla Adler	Academic Writing for Graduate Students	2	Wed	14:15-18:00	Sede Boqer	School	1
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WATER RESOURCES

A. Core Courses:

Students are required to complete all courses from the list below*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0003	Dr. Chris Arnusch	Chemistry of Water	3	Sun	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5060	Dr. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Wed	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room

* 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).

B. Seminars and Thesis Writing - Mandatory Courses:

Students are required to attend Departmental Seminars (one seminar per semester) and Student Seminars (one seminar per year):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-5555	Dr. Chris Arnusch (coordinator)	Departmental Seminar A (first year)	0	Wed	13:00-14:00	Sede Boqer	Old Admin. Build.	Seminar Room
001-2-5557		Departmental Seminar B (first year)						
001-2-5556		Departmental Seminar A (second year)						
001-2-5558		Departmental Seminar B (second year)						
001-2-9995	Prof. Ali Nejdat (coordinator)	Student Seminar (first year)	0.5	Wed	9:00-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-9996		Student Seminar (second year)						

In the third and fourth semesters, students must register for Thesis Writing.

Course No.	Lecturer	Subject	Credits
001-2-9991	--	Thesis Writing A	6
002-2-9992	--	Thesis Writing B	6

Students who have completed the above Thesis Writing courses and who continue their studies for a fifth semester must register for the course.

Course No.	Lecturer	Subject	Credits
001-2-1000	--	Thesis Writing - Continuation	0

C. Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 5 credits*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology	2.5	Sun	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5004	Prof. Ofer Dahan, Prof. Noam Weisbrod	Field Methods in Hydrology	3	Sun	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5100	Dr. Genadi Carmi	Introduction to Surface Hydrology	2	Sun	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room

* Mandatory Core Courses can be also selected as Elective Courses (on top of the required 5 credits).

D. Elective Courses:

Students are required to complete at least 10 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0012	Prof. Daniel Ronen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity (intensive course)	2	A 3-day intensive course in the SUMMER break, 12-14.07.2015, 08:30-17:00 (Registration on the SUMMER semester)				
001-2-0015	Dr. Roy Berenstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0021	Dr. Christopher Arnush	Biomimetic Innovation Approaches	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	A 3-day intensive workshop in the SUMMER break, 18-22.10.2015, 08:00-15:00 (Registration in the SPRING semester).				
001-2-0023	Prof. Yoseph Yechieli	Salination of Coastal Aquifers – Monitoring, Understanding and Managing	2	A 3-day intensive workshop in the SUMMER break, 10-12.08.2015, 9:00-17:00 (Registration in the SPRING semester).				
001-2-3021	Dr. Merav Seifan	Biostatistics: ANOVA and Design of Experiments	3	Sun	10:15-12:00	Sede Boqer	48	2
		Exercise		Sun	15:15-17:00			

D. Elective Courses (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-4036	Prof. Georgy Burde	Topics in Environmental Fluid Mechanics – B	3	Flexible- according to the schedules of the students				
001-2-4047	Dr. Iris Visoli-Fisher	Surface Science for the Environment	3	Mon	09:15-12:00	Sede Boqer	Physics	Seminar Room
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	A 10-day intensive course in the FALL break, 8-12, 15-19.02.2015, 09:00-12:00 (Registration on the SPRING semester)				
001-2-5006	Prof. Alex Yakirevitch	Migration Processes in the Unsaturated Zone of Soil	3	Sun	09:00-12:00	Sede Boqer	School	1
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5044	Dr. Shai Arnon	Biogeochemical Processes in Surface Water Systems	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5055	Prof. Ofer Dahan, Dr. Naftali Lazarovitch	Operation and Analysis of Environmental Monitoring Systems	1	A semi intensive course in the FALL break, 22-24.02.2015, 9:00-13:00 (Registration in the SPRING semester).				
001-2-5129	Prof. Noam Weisbrod	Rural Water Development	2	Field Trip				

E. General Courses:

Students are required to complete no more than 2 credits.

001-2-0153	Ms. Ayla Adler	Academic Writing for Graduate Students	2	Wed	14:15-18:00	Sede Boqer	School	1
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DESALINATION AND WATER TREATMENT

A. Core Courses:

Students are required to complete all courses from the list below*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0003	Dr. Chris Arnusch	Chemistry of Water	3	Sun	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5060	Dr. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Wed	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room

* 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).

B. Seminars and Thesis Writing - Mandatory Courses:

Students are required to attend Departmental Seminars (one seminar per semester) and Student Seminars (one seminar per year).

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-5555	Dr. Chris Arnusch (coordinator)	Departmental Seminar A (first year)	0	Wed	13:00-14:00	Sede Boqer	Old Admin. Build.	Seminar Room
001-2-5557		Departmental Seminar B (first year)						
001-2-5556		Departmental Seminar A (second year)						
001-2-5558		Departmental Seminar B (second year)						
001-2-9995	Prof. Ali Nejdat (coordinator)	Student Seminar (first year)	0.5	Wed	9:00-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-9996		Student Seminar (second year)						

In the third and fourth semesters, students must register for Thesis Writing.

Course No.	Lecturer	Subject	Credits
001-2-9991	--	Thesis Writing A	6
002-2-9992	--	Thesis Writing B	6

Students who have completed the above Thesis Writing courses and who continue their studies for a fifth semester must register for the course.

Course No.	Lecturer	Subject	Credits
001-2-1000	--	Thesis Writing - Continuation	0

C. Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 6 credits*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5044	Dr. Shai Arnon	Biogeochemical Processes in Surface Water Systems	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room

* Mandatory Core Courses can be also selected as Elective Courses (on top of the required 5 credits).

D. Elective Courses:

Students are required to complete at least 7 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-0009	Dr. Avraham Be'er	Physics of Bacterial Communities	2	Mon	13:15-15:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0012	Prof. Daniel Ronen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity (intensive course)	2	A 3-day intensive course in the SUMMER break, 12-14.07.2015, 08:30-17:00 (Registration on the SUMMER semester).				
001-2-0015	Dr. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0021	Dr. Christopher Arnush	Biomimetic Innovation Approaches	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	A 3-day intensive workshop in the SUMMER break, 18-22.10.2015, 08:00-15:00 (Registration in the SPRING semester).				
001-2-0023	Prof. Yoseph Yechieli	Salination of Coastal Aquifers – Monitoring, Understanding and Managing	2	A 3-day intensive workshop in the SUMMER break, 10-12.08.2015, 9:00-17:00 (Registration in the SPRING semester).				
001-2-2036	Prof. Gideon Grafi	Molecular Biology and Epigenetics	2	Thu	12:15-14:00	Sede Boqer	Biology	32
001-2-2040*	Prof. Gideon Grafi	Lab Course in Epigenetics	4	A 5-day intensive workshop in the SUMMER break, 26-30.07.2015, 9:00-17:00 (Registration in the SPRING semester).				
001-2-3021	Dr. Merav Seifan	Biostatistics: ANOVA and Design of Experiments	3	Sun	10:15-12:00	Sede Boqer	48	2
		Exercise		Sun	15:15-17:00			
001-2-5004	Prof. Ofer Dahan, Prof. Noam Weisbrod	Field Methods in Hydrology	3	Sun	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5006	Prof. Alex Yakirevitch	Migration Processes in the Unsaturated Zone of Soil	3	Sun	09:00-12:00	Sede Boqer	School	1
001-2-5012	Prof. Zeev Ronen	Biodegradation Process of Synthetic Organic Compound in Water Soil	2	Thu	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5026	Prof. Ali Nejdat	Nitrogen Transformations and Environmental Quality	2	Thu	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room

D. Elective Courses (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5040	Dr. Eli Zaady	Soil Microbial Ecology	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5055	Prof. Ofer Dahan, Dr. Naftali Lazarovitch	Operation and Analysis of Environmental Monitoring Systems	1	A semi intensive course in the FALL break, 22-24.02.2015, 9:00-13:00 (Registration in the SPRING semester).				
001-2-5100	Dr. Genadi Carmi	Introduction to Surface Hydrology	2	Sun	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room
001-2-5129	Prof. Noam Weisbrod	Rural Water Development	2	Field Trip (registration on 2015/3)				

E. General Courses

Students are required to complete no more than 4 credits.

001-2-0153	Ms. Ayla Adler	Academic Writing for Graduate Students	2	Wed	14:15-18:00	Sede Boqer	School	1
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*The course constitutes of three sessions of field tour (around 4 h each), which will take place during the Spring semester, for collecting annual and perennial desert plants nearby the campus and processing the samples, that is nuclei preparation and fixation. These materials will be used during the one-week-lab course at the semester break for the analysis of epigenetic constraints employed by desert plants in their natural habitats. REGISTRATION FOR THE COURSE ON THE SPRING SEMESTER.