# HYDROLOGY AND WATER QUALITY

## TIME TABLE FOR THE SPRING SEMESTER (B)- ACADEMIC YEAR 2020/2021

### A. Mandatory Courses:

Students are required to complete one of the courses from the list below during in their first or second semester of studies:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
	Prof. Shai Arnon and Dr. C hris Arnush	Writing a Scientific Paper	2	Mon	09:00-10:45	Sede Boqer	School	1	Average of Home Assignments

Students are required to complete the courses from the list below during in their **first** semester of studies:

900-5-5001 Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment -

MANDATORY for all students. The course is in the MOODLE system (Hebrew - https://moodle2.bgu.ac.il/moodle/

; **English -** http://moodle2.bgu.ac.il/?lang=en). Registration: **Hebrew** -

https://bgu4u.bgu.ac.il/pls/scwp/!app.gate?app=csh; English -

https://bgu4u.bgu.ac.il/pls/scwp/!app.gate?app=csh&lang=en.

**900-5-2002** Training in Chemical & Biological Safety - MANDATORY for Students Who Work in Chemical and Biological Labs (Students should take the course every year). Registration for the course is in the first semester of each academic year. The course is in the MOODLE system **Hebrew -** https://moodle2.bgu.ac.il/moodle/ and **English -** http://moodle2.bgu.ac.il/?lang=en.

470-2-0100 The Care and Use of Animals in Research - MANDATORY for Students Who Work with Animals

# **MICROBIOLOGY AND WATER QUALITY**

### **B. Core Courses:**

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0003	Dr. Oded Nir	Chemistry of Water	3	Tue	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Exam

<sup>\*</sup> 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).

### C. 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	Departmental Seminar A (first year)					OL-I	
001-2-5557	and Dr. Scott K.	Departmental Seminar B (first year)	_	Mod	13:00-14:00		Old	Seminar
001-2-5556	Hansen	Departmental Seminar A (second year)	U	vveu	13:00-14:00		Build.	Room
001-2-5558	(Coordinator)	Departmental Seminar B (second year)					Bullu.	
001-2-9995	Prof. Ali Nejidat	Student Seminar (first year)	0.5	Mod	09:00-10:00	Sada Dagar	Water	Seminar
001-2-9996	(Coordinator)	Student Seminar (second year)	0.5	vvea	09.00-10:00	Sede Bodei	Inst.	Room

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

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

#### D. Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 7 credits\*\*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology (The course will be taught if at least six students are enrolled)	2.5	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room	Exam
1001-2-5105	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies - Theory	2	break Semir	A five-day intensive course offered during the FALL break ,7-11.2.2021, 09:00-14:00, Water Building, Seminar Room. Course registration takes place during the registration period for the SPRING semester.				Final Term Paper
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Thu	15:15-17:00	ISede Boger		Seminar Room	Final Term Paper

<sup>\*\*</sup> Mandatory Core Courses can be also selected as Elective Courses (on top of the required 7 credits).

D. Mandatory Core Courses Within the Track of Study (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-5062	Dr. Edo Bar-Zeev	Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling	3	Mon	16:15-19:00	Sede Boger		Seminar Room	Exam

## E. Elective Courses:

This is a partial list. The student is allowed to select other courses that are related to the area of his/her research with the approval of the supervisor.

Students are required to complete at least 8 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0009	Prof. Avraham Be'er	Physics of Bacterial Communities	3	Mon	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-0012	Prof. Daniel Ronen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity	1	SUMN Cours	A two-day intensive workshop offered during the SUMMER break, September, 2021, 9:00-16:00. Course registration takes place during the registration period for the SUMMER semester.				Final Term Paper
001-2-0021	Dr. Christopher Arnusch	Biomimetic Innovation Approaches	2	Tue	16:00-17:45	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-0015	Dr. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	Mid Term Exam, Lab, Final Term Paper
001-2-4031	Prof. Isaak Rubinstein	Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (A)	2	Flexib	le - according	to the sched	ules of the s	tudents	Final Term Paper
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	Exam
001-2-5026	Prof. Ali Nejidat	Nitrogen Transformations and Environmental Quality	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5040	Dr. Eli Zaady	Soil Microbial Ecology (upon the request of at least 5 students)	2	Thu	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-5044	Prof. Shai Arnon	Biogeochemical Processes in Surface Water Sy	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	Exam

E. Elective Courses (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-5063	Dr. Edo Bar-Zeev	Lab-course: New Methods in Biofilm Characterization	3	break Room	An intensive course offered during the SUMMER break, ========, Water Building, Seminar Room. Course registration takes place during the registration period for the SUMMER semester.				Final Term Paper and Exam
001-2-5065	Prof. Shai Arnon	Flow and Water Quality in Streams: Theory and Practice	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Field Work Report
001-2-5067	Dr. Scott K. Hansen	Introduction to Contaminant Hydrology	3	Sun	13:15-16:00	Sede Boqer	Water Inst.		A final exam and problem sets
001-2-5068	Dr. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2		ensive worksho (limited to 16	•	ıring the SU	MMER	Final Term Paper
001-2-5070	Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Wed	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Take-Home Problem Sets
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:15-12:00	Sede Boqer	Man in Drylands	Computer Room	Final Term Paper

# **WATER RESOURSES**

#### **B. Core Courses:**

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0003	Dr. Oded Nir	Chemistry of Water	3	Tue	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Exam

<sup>\*</sup> 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).

### C. Seminars, Courses - 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	Departmental Seminar A (first year)					Old	
001-2-5557	and Dr. Scott K.	Departmental Seminar B (first year)	0	Mod	13:00-14:00		Old	Seminar
001-2-5556	Hansen	Departmental Seminar A (second year)	U	weu	13.00-14.00		Build.	Room
001-2-5558	(Coordinator)	Departmental Seminar B (second year)					balla.	
001-2-9995	Prof. Ali Nejidat	Student Seminar (first year)	0.5	Mod	09:00-10:00	Sodo Pogor	Water	Seminar
001-2-9996	(Coordinator)	Student Seminar (second year)	0.5	vvea	09.00-10:00	Sede Bodei	Inst.	Room

## C. Seminars, Courses - Mandatory Courses (Continuation):

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

Course No.	Lecturer	Subject	Credits
001-2-9991		Thesis Writing A	6
001-2-9992		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		Credits
001-2-1000		Thesis Writing - Continuation	0

## D. Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 7 credits\*\*.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology (The course will be taught if at least six students are enrolled)	2.5	Mon	08:30-11:00	ISede Roder	Water Inst.	Seminar Room	Exam
001-2-5004	Prof. Ofer Dahan, Prof. Noam Weisbord	Field Methods in Hydrology	3	Sun	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5105	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies - Theory	2	break Semir	-day intensive ,7-11.2.2021, nar Room. Cour egistration perio	Final Term Paper			
001-2-5067	Dr. Scott K. Hansen	Introduction to Contaminant Hydrology	3	Sun	13:15-16:00	ISede Roder	Water Inst.	Seminar Room	A final exam and problem sets
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper

<sup>\*\*</sup> Mandatory Core Courses can be also selected as Elective Courses (on top of the required 7 credits).

### E. Elective Courses:

This is a partial list. The student is allowed to select other courses that are related to the area of his/her research with the approval of the supervisor.

Students are required to complete at least 8 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0012	IProf Daniel Ponen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity	1	SUMM Cours	a two-day intensive workshop offered during the SUMMER break, September, 2021, 9:00-16:00. Course registration takes place during the registration period for the SUMMER semester.				Final Term Paper
001-2-0015	Dr. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer			Mid Term Exam, Lab, Final Term Paper
001-2-0021	Dr. Christopher Arnusch	Biomimetic Innovation Approaches	2	Tue	16:00-17:45	Sede Boqer		Seminar Room	Final Term Paper

## E. Elective Courses (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-5026	Prof. Ali Nejidat	Nitrogen Transformations and Environmental Quality	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5044	Prof. Shai Arnon	Biogeochemical Processes in Surface Water Sy	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5062	Dr. Edo Bar-Zeev	Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling	3	Mon	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5063	Dr. Edo Bar-Zeev	Lab-course: New Methods in Biofilm Characterization	3	break Room	ensive course , ======= . Course regist ration period fo	=, Water Bui ration takes	lding, Semii place durinç	nar g the	Final Term Paper and Exam
001-2-5065	Prof. Shai Arnon	Flow and Water Quality in Streams: Theory and Practice	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Field Work Report
001-2-5067	Dr. Scott K. Hansen	Introduction to Contaminant Hydrology	3	Sun	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	A final exam and problem sets
001-2-5068	Dr. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2		ensive worksho (limited to 16	•	ıring the SU	IMMER	Final Term Paper
001-2-5070	Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Wed	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Take-Home Problem Sets
001-2-5100	Dr. Genady Carmi	Introduction to Surface Hydrology	2	Tue	08:30-10:00	Sede Boqer	48	2	Exam
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:15-12:00	Sede Boqer	Man in Drylands	Computer Room	Final Term Paper

# **DESALINATION AND WATER TREATMENT**

### **B. Core Courses:**

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

С	ourse No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
0	01-2-0003	Dr. Oded Nir	Chemistry of Water	3	Tue	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Exam

<sup>\*</sup> 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).

### C. 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		Departmental Seminar A (first year)						
001-2-5557	Dr. Chris Arnusch and Dr. Scott K.	Departmental Seminar B (first year)					Old	Seminar
001-2-5556	Hansen (Coordinator)	Departmental Seminar A (second year)	0	Wed	13:00-14:00		Admin. Build.	Room
001-2-5558	1	Departmental Seminar B (second year)						
001-2-9995		Student Seminar (first year)	0.5					
	Prof. Ali Nejidat			\A/I	09:00-10:00	Codo Dogos	Water	Seminar
001-2-9996	(Coordinator)	Student Seminar (second year)	0.5	Wed	09:00-10:00	Sede Boqer	Inst.	Room

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

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

## C. Seminars and Thesis Writing - Mandatory Courses (Continuation):

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

Co	ourse No.	Lecturer	Subject	Credits
00	01-2-1000		Thesis Writing - Continuation	0

## D. 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	Final Assignments
001-2-5038	Prof. Amit Gross	Water Sanitation	3	Thu	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-5060	Prof. Moshe Herzberg	Biological Processes in Wastewater Treatment	2	Thu	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper

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

### E. Elective Courses:

This is a partial list. The student is allowed to select other courses that are related to the area of his/her research with the approval of the supervisor.

Students are required to complete at least 5 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-0004	Prof. Noam Weisbrod	Vadose Zone Hydrology (The course will be tau	2.5	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room	Exam
001-2-0009	Prof. Avraham Be'er	Physics of Bacterial Communities	3	Mon	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-0012	Prof. Daniel Ronen	Selected Issues Related to Groundwater Hydrology: Quality & Quantity	1	SUMN Cours	A two-day intensive workshop offered during the SUMMER break, September, 2021, 9:00-16:00. Course registration takes place during the registration period for the SUMMER semester.				Final Term Paper
001-2-0015	Dr. Roy Bernstein	Membrane Preparation and Characterization	3	Tue	13:15-16:00	Sede Boqer	Water Inst.	Seminar Room	Mid Term Exam, Lab, Final Term Paper
001-2-0021	Dr. Christopher Arnusch	Biomimetic Innovation Approaches	2	Tue	16:00-17:45	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
001-2-0032	Dr. Christopher Arnusch	Advanced Chemistry in Water Technologies	3	Sun	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Two Lab Assignments and Exam

## E. Elective Courses (Continuation):

Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
Prof. Ofer Dahan, Prof. Noam Weisbord	Field Methods in Hydrology	3	Sun	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room	Exam
Prof. Zeev Ronen	Biodegradation Process of Synthetic Organic Compound in Water Soil	2	Thu	10:15-12:00	Sede Boqer	Water Inst.	Seminar Room	Exam
Prof. Ali Nejidat	Nitrogen Transformations and Environmental Quality	2	Mon	11:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
Dr. Eli Zaady	Soil Microbial Ecology (upon the request of at least 5 students)	2	Thu	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Final Term Paper
Dr. Edo Bar-Zeev	Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling	3	Mon	16:15-19:00	Sede Boqer	Water Inst.	Seminar Room	Exam
Dr. Edo Bar-Zeev	Lab-course: New Methods in Biofilm Characterization	3	An intensive course offered during the SUMMER break, ========, Water Building, Seminar Room. Course registration takes place during the registration period for the SUMMER semester.				Final Term Paper and Exam	
Prof. Shai Arnon	Flow and Water Quality in Streams: Theory and Practice	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	Field Work Report
Dr. Scott K. Hansen	Scientific computing with MATLAB and Python	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	The grades on the assignments are averaged
Dr. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2	An intensive workshop offered during the SUMMER break (limited to 16 students).				Final Term Paper	
Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Wed	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Take-Home Problem Sets
Dr. Genady Carmi	Introduction to Surface Hydrology	2	Sun	08:30-10:00	Sede Boqer	48	2	Final Term Paper
Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:15-12:00	Sede Boqer	Man in Drylands	Computer Room	Final Term Paper
	Prof. Ofer Dahan, Prof. Noam Weisbord  Prof. Zeev Ronen  Prof. Ali Nejidat  Dr. Eli Zaady  Dr. Edo Bar-Zeev  Prof. Shai Arnon  Dr. Scott K. Hansen  Dr. Oded Nir  Dr. Scott K. Hansen  Dr. Genady Carmi	Prof. Ofer Dahan, Prof. Noam Weisbord  Prof. Noam Weisbord  Prof. Zeev Ronen  Biodegradation Process of Synthetic Organic Compound in Water Soil  Prof. Ali Nejidat  Nitrogen Transformations and Environmental Quality  Dr. Eli Zaady  Soil Microbial Ecology (upon the request of at least 5 students)  Dr. Edo Bar-Zeev  Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling  Dr. Edo Bar-Zeev  Lab-course: New Methods in Biofilm Characterization  Prof. Shai Arnon  Flow and Water Quality in Streams: Theory and Practice  Dr. Scott K. Hansen  Dr. Oded Nir  Aqueous Chemistry Modeling with PHREEQC  Dr. Scott K. Hansen  Practical Data Science and Machine Learning  Dr. Genady Carmi  Theory and Applications of Geographic	Prof. Ofer Dahan, Prof. Noam Weisbord Field Methods in Hydrology 3  Prof. Zeev Ronen Biodegradation Process of Synthetic Organic Compound in Water Soil 2  Prof. Ali Nejidat Nitrogen Transformations and Environmental Quality 2  Dr. Eli Zaady Soil Microbial Ecology (upon the request of at least 5 students) 3  Dr. Edo Bar-Zeev Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling 3  Dr. Edo Bar-Zeev Lab-course: New Methods in Biofilm Characterization 3  Prof. Shai Arnon Flow and Water Quality in Streams: Theory and Practice 2  Dr. Scott K. Hansen Scientific computing with MATLAB and Python 3  Dr. Oded Nir Aqueous Chemistry Modeling with PHREEQC 2  Dr. Scott K. Hansen Practical Data Science and Machine Learning 3  Dr. Genady Carmi Introduction to Surface Hydrology 2  Theory and Applications of Geographic 3	Prof. Ofer Dahan, Prof. Noam Weisbord  Prof. Noam Weisbord  Prof. Zeev Ronen  Biodegradation Process of Synthetic Organic Compound in Water Soil  Prof. Ali Nejidat  Nitrogen Transformations and Environmental Quality  Dr. Eli Zaady  Soil Microbial Ecology (upon the request of at least 5 students)  Dr. Edo Bar-Zeev  Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling  An int break Room regist  Prof. Shai Arnon  Flow and Water Quality in Streams: Theory and Practice  Dr. Scott K. Hansen  Dr. Oded Nir  Aqueous Chemistry Modeling with PHREEQC  Dr. Scott K. Practical Data Science and Machine Learning  Dr. Genady Carmi  Introduction to Surface Hydrology  Thu  Thu  Thu  Thu  Thu  Thu  Thu  Th	Prof. Ofer Dahan, Prof. Noam Weisbord  Prof. Noam Weisbord  Biodegradation Process of Synthetic Organic Compound in Water Soil  Prof. Ali Nejidat Nitrogen Transformations and Environmental Quality  Dr. Eli Zaady  Soil Microbial Ecology (upon the request of at least 5 students)  Dr. Edo Bar-Zeev Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling  Dr. Edo Bar-Zeev Lab-course: New Methods in Biofilm Characterization  Prof. Shai Arnon Flow and Water Quality in Streams: Theory and Practice  Dr. Scott K. Hansen  Dr. Oded Nir Aqueous Chemistry Modeling with PHREEQC  Dr. Scott K. Practical Data Science and Machine Learning  Dr. Genady Carmi Introduction to Surface Hydrology  Theory and Applications of Geographic  Thus 10:15-19:00  Thu 10:15-12:00  Thu 10:15-12:00  Thu 10:15-12:00  An intensive course threat, profit of the profit o	Prof. Ofer Dahan, Prof. Noam Weisbord  Prof. Noam Weisbord  Prof. Zeev Ronen  Biodegradation Process of Synthetic Organic Compound in Water Soil  Prof. Ali Nejidat  Nitrogen Transformations and Environmental Quality  Dr. Eli Zaady  Soil Microbial Ecology (upon the request of at least 5 students)  Dr. Edo Bar-Zeev  Microbial Sociology: From a Single Bacterium or Biofilm Characterization  Dr. Edo Bar-Zeev  Microbial Sociology: From a Single Bacterium or Biofilm Characterization  An intensive course offered durin break, =======, Water Buil Room. Course registration takes registration period for the SUMMI  Prof. Shai Arnon  Flow and Water Quality in Streams: Theory and Practice  Dr. Scott K.  Hansen  Aqueous Chemistry Modeling with PHREEQC  Dr. Scott K.  Practical Data Science and Machine Learning  Dr. Genady Carmi  Theory and Applications of Geographic  Theory and Applications of Geographic  Theory and Applications of Geographic  Thu 10:15-12:00 Sede Boqer  Thu 10:15-12:00 Sede Boqer	Prof. Ofer Dahan, Prof. Noam Welsbord  Field Methods in Hydrology  Forf. Ali Nejidat  Field Methods in Hydrology  Field Methods in Hydrology  Forf. Ali Nejidat  Nitrogen Transformations and Environmental Quality  Field Mon 11:15-13:00 Sede Boger Water Inst.  Field Mon 11:15-13:00 Sede Boger Water Inst.  Field Mon 11:15-13:00 Sede Boger Water Inst.  Field Methods in Hydrology  From a Single Bacterium Quality of Boger Mater Inst.  Field Bar-Zeev  Microbial Sociology: From a Single Bacterium Quality of Biofilm Quality of Biofilm Quality of Biofilm Room. Course egistration takes place during registration period for the SUMMER semester Quality of Practice  From Scott K.  Hansen  Flow and Water Quality in Streams: Theory and Practice  From Scott K.  Hansen  From Scott K.  Hansen  Fractical Data Science and Machine Learning Quality Details.  Fractical Data Science and Machine Learning Quality Details.  From Scott K.  Hansen  From Scott K.  Hansen  Fractical Data Science Hydrology  From Advise Beaters  From 10:15-12:00 Sede Boger Water Inst.  From One 15:12:00 Sede Boger Water Inst.  From One 15:12:	Prof. Ofer Dahan, Prof. Noam Welsbord Field Methods in Hydrology  3 Sun 16:15-19:00 Sede Boqer Water Inst. Seminar Room Prof. Zeev Ronen  Biodegradation Process of Synthetic Organic Compound in Water Soil  10:15-12:00 Sede Boqer Water Inst. Seminar Room Prof. Ali Nejidat  Nitrogen Transformations and Environmental Quality  Dr. Eli Zaady  Soil Microbial Ecology (upon the request of at least 5 students)  Dr. Edo Bar-Zeev  Microbial Sociology: From a Single Bacterium  Dr. Edo Bar-Zeev  Lab-course: New Methods in Biofilm Characterization  An intensive course offered during the SUMMER break, =======, Water Building, Seminar Room  Prof. Shai Arnon  Flow and Water Quality in Streams: Theory and Practice  Dr. Scott K. Hansen  Dr. Scott K. Practical Data Science and Machine Learning  Dr. Genady Carmi  Introduction to Surface Hydrology  2 Sun 08:30-10:00 Sede Boqer Water Inst.  Seminar Room  An intensive course offered during the SUMMER break, =======, Water Building, Seminar Room  Course registration takes place during the registration period for the SUMMER semester.  Seminar Room  An intensive workshop offered during the SUMMER break and Python  3 Tue 12:15-15:00 Sede Boqer Water Inst.  Seminar Room  An intensive workshop offered during the SUMMER break (limited to 16 students).  Seminar Room  An intensive workshop offered during the SUMMER break (limited to 16 students).  Seminar Room  An intensive workshop offered during the SUMMER break (limited to 16 students).  Seminar Room  Dr. Scott K. Practical Data Science and Machine Learning  3 Wed 10:15-13:00 Sede Boqer Water Inst.  Seminar Room  An intensive workshop offered during the SUMMER break (limited to 16 students).  Seminar Room  The Advise Beaters  Theory and Applications of Geographic  3 Thu 08:30-10:00 Sede Boqer Man in Computer

## F. General Courses:

Students are required to complete no more than 4 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Final Assignments
001-2-1103	Dr. Hadas Hawlena	Introduction to Dryland Ecology	4	Wed	12:30-15:30	Sede Boqer	School	1	Final Term Paper