

DESERT STUDIES

TIME TABLE FOR THE FALL SEMESTER (A)- ACADEMIC YEAR 2021/2022

A. Mandatory Courses:

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

Offered in the fall semester

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-0153	Prof. Shai Arnon, Dr. Scott Hansen	Writing a Scientific Paper	2	Tue	10:15-12:00	Sede Boqer	School	1	To be taken in the student's second semester

OR

Offered in the spring semester

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-0153	Prof. Shai Arnon, Dr. Scott Hansen	Writing a Scientific Paper	2	Mon	09:00-10:45	Sede Boqer	School	1	To be taken in the student's second semester
001-2-0153	Prof. Shai Arnon, Dr. Scott Hansen	Writing a Scientific Paper - Goup 2	2	Tue	13:15-15:00	Sede Boqer	School	1	To be taken in the student's second semester

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 once per degree. 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 once per degree

AGRICULTURE AND BIOTECHNOLOGY

B. Core Courses:

Students are required to attend four core courses selected from all core courses:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2017	Prof. Simon Barak	Plant Perception, Transduction and Response to Environmental Signals	2	Thu	10:15-12:00	Sede Boqer	Biology	32	Limited to 10 students
001-2-2041	Prof. Noemi Tel-Zur	Plant Reproduction	3	Thu	12:15-15:00	Sede Boqer	Biology	32	Will be held by Zoom
001-2-2055	Dr. Yaron Sitrit	Genetic and Physiological Regulation of Fruit Ripening	2	Mon	11:15-13:00	Sede Boqer	Biology	32	0

C. Seminars and Thesis Writing -- Mandatory Courses:

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-2222	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (first year)	0	Wed	11:30-12:30	Sede Boqer	Will be updated	Will be updated
001-2-2224	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (first year)	0					
001-2-2223	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (second year)	0					
001-2-2225	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (second year)	0					

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

001-2-9991	--	Thesis Writing A	6	Students on their 3rd semester
001-2-9992	--	Thesis Writing B	6	Students on their 4th semester

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

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

D. Elective Courses within the Track of the Study:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2015	Prof. Dina Zilberg, Prof. Amit Gross	Introduction to Aquaculture	3	Tue	12:15-15:00	Sede Boqer	Biology	136	0
001-2-2028	Prof. Shmuel Appelbaum	Guided Reading on Economical Utilization of Food Industry Wastes as Aquaculture Feeds, Particularly in Arid lands	2	Guided reading course - limited to two students					0
001-2-2025/6/7	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (A)/(B)/(C) (Prerequisite: Theoretical fish diseases course)	1	Contact the lecturer					Limited to 3 students
001-2-2006	Prof. Moshe Silberbush	Mechanistic Approach to Plant Nutrition	3	Tue	09:15-12:00	Sede Boqer	Biology	136	0
001-2-2037	Prof. Moshe Sagi	Guided Reading on Stress Sensing in Plants	2	Guided reading course - limited to two students					0
001-2-2043	Prof. Shimon Rachmilevitch	Plant Stress Indications: Methods and Instrumentation	2	A 3-day intensive workshop offered between Fall and Spring semester, February 7-9, 2022 =====, 8:30-17:00, Agriculture Building, Room 32. Course registration takes place during the registration period for the Fall semester.					0
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	08:30-11:00	Sede Boqer	Biology	32	0
001-2-2054	Prof. Shimon Rachmilevitch	Guided Reading on Topics in the Ecophysiology of Desert Plants	2	Guided reading course - limited to two students					0
001-2-2056	Prof. Inna Khozin-Goldberg	Guided Reading on Advanced Topics in Plant and Microalgae Lipid Biochemistry	2	Guided reading course - limited to two students					0
001-2-2070	Prof. Inna Khozin-Goldberg	Biology and Biotechnology of Microalgae	3	Tue	10:15-12:30	Sede Boqer	Biology	32	0
001-2-2075	Dr. Ilya Gelfand	Terrestrial Biogeochemistry	3	Sun	12:15-15:00	Sede Boqer	Biology	32	0
001-2-2203	Dr. Gilboa Arye	Adsorption and Reactivity of Chemicals in Soils	3	Mon	15:15-18:00	Sede Boqer	Biology	32	0

D. Elective Courses within the Track of the Study (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2205	Dr. Ido Regev	Modeling in the Earth Sciences	3	Wed	15:15-18:00	Sede Boqer	School	1	0
001-2-2206	Prof. Arnon Karnieli, Dr. Manuel Salvoldi	Earth observation missions for agricultural monitoring	3	Thu	12:15-15:00	Sede Boqer	Physics	Seminar Room	0
001-2-2289	Prof. Simon Barak	Guided Reading on Molecular and Systems Biology Approaches to Plant Stress Tolerance Research	2	Guided reading course- limited to two students					0
001-2-2066	Prof. Aaron Fait	Metabolomics Laboratory	2	A five-day Intensive course offered in the FALL Break, February 20-24, 2022.09:00-14:00, Agriculture Building, Room 32. Course registration takes place during the registration period for the Fall semester.					20-24.02.2022
001-2-2067	Prof. Jhonathan Ephrath	Understanding and Modeling of Agricultural Systems	2	Mon	09:15-11:00	Sede Boqer	Biology	32	0
001-2-2078	Prof. Noemi Tel-Zur	Principles and Practice of Microscopy	2	A five-day Intensive course offered in the FALL Break, February 13-17, 2022. 09:00-15:00, Agriculture Building, Room 32. Course registration takes place during the registration period of the Fall semester.					Max 10 participants
001-2-2290	Prof. Dina Zilberg	Guided Reading on Aquatic Animal Health	2	Guided reading course - limited to two students					0

E. General Courses:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-4016	Dr. Leah Orlovsky	Geography of Desertification	2	Sun	12:15-14:00	Sede Boqer	Physics	Seminar Room	0
001-2-4028	Prof. Arnon Karnieli	Remote Sensing for Agriculture, Rangelands, and Forestry (no prerequisites required)	3	Tue	15:00-17:45	Sede Boqer	Physics	Seminar Room	0
001-2-4029	Prof. Yossi Ashkenazy	Introduction to statistics and probability using Python	3	Mon	10:15-13:00	Sede Boqer	Physics	Seminar Room	0

900-1-2900	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy	*2	Wed	17:00-19:00	Sede Boqer	School	2	*students must take two semesters beginning in Semester A and fulfil all course requirements. Info was published
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E. General Courses:(Continuation):

001-2-2079	Dr. Vered Tzin	Chemical Ecology Spring workshop	2	3 days intensive course offered during the Fall Break, February 15-18, 2022.					0
001-2-3021	Dr. Itamar Giladi	Biostatistics: ANOVA and Design of Experiments - Class (can be completed during the program)	3*	Tue	08:30-10:00	Sede Boqer	Biology	32	*0 credit points for students in the Ecology and Nature Conservation department. Limited to 16 students
		Wed		09:15-11:00	Sede Boqer	Man in the Drylands	Computer room		
001-2-5069	Prof.Amit Gross, Prof. Osnat Gilor, Prof. Ron Kasher, Prof. Edo Bar-Zeev	Water & the Environmnet: Current challeneges and solotions	3	Online course - Information was published					0
205-2-7032	Prof. Amos Bouskila	Solving Problems with R - Class	2	Thu	08:00-10:00	Beer-Sheva	35	402	0
		Solving Problems with R - Exercise			10:00-12:00				
900-1-2900	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy	*2	Wed	17:00-19:00	Sede Boqer	School	2	#N/A

IRRIGATION AND PLANT ENVIRONMENT

B. Core Courses within the Track of Study:

Students are required to take 15 credits from the core courses.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2006	Prof. Moshe Silberbush	Mechanistic Approach to Plant Nutrition	3	Tue	09:15-12:00	Sede Boqer	Biology	136	0
001-2-2038	Prof. Naftali Lazarovitch	Soil Physics	3	Tue	15:15-18:00	Sede Boqer	Biology	32	0
001-2-2203	Dr. Gilboa Arye	Adsorption and Reactivity of Chemicals in Soils	3	Mon	15:15-18:00	Sede Boqer	Biology	32	0
001-2-5030	Prof. Nurit Agam	Hydrometeorology	3	Wed	15:00-17:45	Sede Boqer	Biology	32	0

C. Seminars and Thesis Writing -- Mandatory Courses:

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-2222	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (first year)	0	Wed	11:30-12:30	Sede Boqer	Will be updated	Will be updated
001-2-2224	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (first year)						
001-2-2223	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (second year)						

001-2-2225	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (second year)						
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In the third and fourth semesters, students must register for Thesis Writing.

001-2-9991	--	Thesis Writing A	6	Students on their 3rd semester
001-2-9992	--	Thesis Writing B	6	Students on their 4th semester

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

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

D1. Elective Courses Within the Track of the Study:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-2043	Prof. Shimon Rachmilevitch	Plant Stress Indications: Methods and Instrumentation	2	A 3-day intensive workshop offered between Fall and Spring semester, February 7-9, 2022 =====, 8:30-17:00, Agriculture Building, Room 32. Course registration takes place during the registration period for the Fall semester.					0
001-2-2067	Prof. Jhonathan Ephrath	Understanding and Modeling of Agricultural Systems	2	Mon	09:15-11:00	Sede Boqer	Biology	32	0
001-2-2075	Dr. Ilya Gelfand	Terrestrial Biogeochemistry	3	Sun	12:15-15:00	Sede Boqer	Biology	32	0
001-2-2076	Dr. Nina Kamennaya, Prof. Mike Zubkov	Practical Environmental Cytometry	2.5	An intensive (08:00 - 17:00) 5 days course offered during the Fall Break, February 20-24 (not final) . Course registration takes place during the registration period for the fall semester.					Further details will be published closer to the beginning of the course
001-2-2077	Prof. Aaron Fait	Grape and wine science	2.5	An intensive course offered during the Fall Break, Feb 6-10, 2022. Course registration takes place during the registration period of the fall semester. Morning hours 09:30 - 11:30, break, Noon hours 13:00 - 15:00					Further details will be published closer to the beginning of the course

D1. Elective Courses Within the Track of the Study (Continuation):

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2301	Prof. Nurit Agam	Guided Reading Course on Calculating the Aridity Index from Meteorological Time Series	2						0
001-2-2302	Dr. Ilya Gelfand	Guided Reading on Ecosystem Ecology and Biogeochemistry	2						0
001-2-4028	Prof. Arnon Karnieli	Remote Sensing for Agriculture, Rangelands, and Forestry (no prerequisites required)	3	Tue	15:00-17:45	Sede Boqer	Physics	Seminar Room	0
001-2-5069	Prof. Amit Gross, Prof. Osnat Gilor, Prof. Ron Kasher, Prof. Edo Bar	Water & the Environment: Current challenges and solutions	3						0
900-1-2900	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy	*2			Wed			*students must take two semesters beginning in Semester A and fulfil all course requirements. Info was published

D2. Elective courses for students who are in their second year of studies with the approval of their supervisor

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-2054	Prof. Shimon Rachmilevitch	Guided Reading on Topics in the Ecophysiology of Desert Plants	2						0

SOLAR ENERGY AND THE ENVIRONMENTAL PHYSICS (*Substitute Lecturer)

B. Mandatory Courses :

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-7004	Prof. Yair Zarmi	Solution Methods in Mathematics	3						Flexible - according to the schedules of the students (at least 3 students) 0

C. Seminars and Thesis Writing -- Mandatory Courses:

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-4444	Dr. Avi Niv and Dr. Ido Regev (Coordinators)	Departmental Seminar A (first year)	0.25	Tue	10:00-12:00	Sede Boqer	Physics	Seminar Room
001-2-4454		Departmental Seminar B (first year)						
001-2-4464		Departmental Seminar A (second year)						
001-2-4474		Departmental Seminar B (second year)						

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

001-2-9991	--	Thesis Writing A	6	Students on their 3rd semester					
001-2-9992	--	Thesis Writing B	6	Students on their 4th semester					

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

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

D. Elective Courses within the Track of the Study:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks	
001-2-4012	Prof. Isaak Rubinstein	Electro-Diffusion of Ions and Membrane Desalination Processes	3	Flexible - according to the schedules of the students						0
001-2-4016	Dr. Leah Orlovsky	Geography of Desertification	2	Sun	12:15-14:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4026	Prof. Yossi Ashkenazy	Introduction to the Physics of Atmospheres	3	Mon	14:00-17:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4029	Prof. Yossi Ashkenazy	Introduction to statistics and probability using Python	3	Mon	13:15-16:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4031	Prof. Isaak Rubinstein	Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (A)	2	Flexible - according to the schedules of the students						0
001-2-4038	Prof. Golan Bel	Stochastic Processes in Physics	2	Thu	15:15-17:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4045	Prof. Eugene Katz	Physics of Solar Cells	3	Sun	09:15-12:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4052	Dr. Mohammad Bashouti	Fundamentals of Semiconductors	3	Wed	12:15-15:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4054	Prof. Golan Bel	Statistical Analysis	3	Thu	09:15-12:00	Sede Boqer	Physics	Seminar Room	0	
001-2-4055	Prof. Golan Bel	Random Walks	3	Tue	12:15-15:00	Sede Boqer	Physics	Seminar Room	0	

001-2-4057	Dr. Arik Yochelis	Dynamical systems	3	Thu	09:00 - 12:00	Beer Sheva		0 0	will be held in Beer-Sheva Campus
001-2-4058	Dr. Avi Niv	Topics in Solar Energy	3	Wed	09:15 - 12:00	Sede Boqer	Solar	Seminar Room	0
001-2-4059	Dr. Mohammad Bashouti	Hybrid Electronics	2	Wed	15:15-17:00	Sede Boqer	Solar	Seminar Room	0

E. Elective Courses outside the Track of the Study:

Students are required to complete 4 credits either from other tracks of study or from the list of introductory courses below:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-0017	Prof. Roni Kasher	Polymer Science and Polymeric Membranes	3	Mon	11:15-14:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-2038	Prof. Naftali Lazarovitch	Soil Physics	3	Tue	15:15-18:00	Sede Boqer	Biology	32	0
001-2-2075	Dr. Ilya Gelfand	Terrestrial Biogeochemistry	3	Sun	12:15-15:00	Sede Boqer	Biology	32	0
001-2-2205	Dr. Ido Regev	Modeling in the Earth Sciences	3	Wed	15:15-18:00	Sede Boqer	School	1	0
001-2-5069	Prof. Amit Gross, Prof. Osnat Gilor, Prof. Ron Kasher, Prof. Edo Bar-Zeev	Water & the Environmnet: Current challeneges and solotions	2.5	Online course - Information was published					0
001-2-7717	Prof. Yossi Ashkenazy	Topics in Physical Oceanography	3.5	Intensive coruse: October 31st - Nov 5th, 2021. For more information and registration please refer to: https://iui-eilat.huji.ac.il The Interuniversity Institute for Marine Sciences, Eilat (IUI), P.O. Box 469 Eilat, 88103.					0
205-2-7032	Prof. Amos Bouskila	Solving Problems with R - Class	2	Thu	08:00-10:00	Beer-Sheva	35	402	0
		Solving Problems with R - Exercise			10:00-12:00				

ENVIRONMENTAL AND AQUATIC MICROBIOLOGY

B. Core Courses

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-3021	Dr. Itamar Giladi	Biostatistics: ANOVA and Design of Experiments - Class (can be completed during the program)	3*	Tue	08:30-10:00	Sede Boqer	Biology	32	*0 credit points for students in the Ecology and Nature Conservation department. Limited to 16 students
		Wed		09:15-11:00	Sede Boqer	Man in the Drylands	Computer room		
001-2-5005	Prof. Amit Gross, Prof. Zeev Ronen	Laboratory Methods for Environmental Studies	3	An eight-day intensive course offered during the FALL break, February 13-23, 2022, Water Building, Seminar Room. Course registration takes place during the registration period of the fall semester					0
001-2-5011	Prof. Zeev Ronen	Environmental Microbiology	3	Thu	15:15-18:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-5059	Prof. Osnat Gillor	Water Microbiology	3	Thu	09:15-12:00	Sede Boqer	Water Inst.	Seminar Room	0

Nonmicrobiologists may take the course:

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-5159	Prof. Osnat Gillor	Introduction to Microbiology	1	A semi intensive course during the second week of the first semester for non-biologists who take the 001-2-5059 Water Microbiology course .				Seminar Room	0

C. Departmental Seminars and Thesis Writing - Mandatory Courses:

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-5555	Dr. Avner Ronen and Dr. Scott K. Hansen (Coordinator)	Departmental Seminar A (first year)	0	Wed	13:00-14:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-5557		Departmental Seminar B (first year)							0
001-2-5556		Departmental Seminar A (Second year)							0
001-2-5558		Departmental Seminar B (Second year)							0

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 this course.

Course No.	Lecturer	Subject	Credits
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001-2-1000	--	Thesis Writing - Continuation	0
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D. Elective Courses 1

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	Remarks
001-2-0022	Dr. Anat Bernstein	Stable Isotope Application in Contaminant Hydrology	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-2017	Prof. Simon Barak	Plant Perception, Transduction and Response to Environmental Signals	2	Thu	10:00-13:00	Sede Boqer	Biology	32	Limited to 10 students
001-2-2025	Prof. Dina Zilberg	Practical Fish Disease Diagnosis (A)/(B)/(C) (Prerequisite: Theoretical fish diseases course)	1	Contact the lecturer					
001-2-2026									
001-2-2027									
001-2-2038	Prof. Naftali Lazarovitch	Soil Physics	3	Tue	15:15-18:00	Sede Boqer	Biology	32	0
001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	08:30-11:00	Sede Boqer	Biology	32	0
001-2-2290	Prof. Dina Zilberg	Guided Reading on Aquatic Animal Health	2	Guided reading course - limited to two students					0
001-2-5028	Prof. Moshe Herzberg	Microbial Biofilms in Water and Wastewater Treatment Processes (prerequisite: Introduction to Microbiology)	2	Tue	15:15-17:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-5029	Prof. Noam Weisbrod	Rural Water Development	2	Mon	08:30-11:00	Sede Boqer	Water Inst.	Seminar Room	Minimum 12 Students. Rural Water Development (Field Trip) course no. 001.2.5129 will be held only if the Covid-19 guidelines will allow it.
001-2-5065	Prof. Shai Arnon	Flow and Water Quality in Streams: Theory and Practice	3	Wed	14:15-17:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-5066	Dr. Scott K. Hansen	Introduction to Scientific Computing with Python	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	0
205-2-5021	Prof. Moshe Kiflawi	Methods in Ecology	3	An eight-day intensive course offered during the FALL break in Sede Boker, 7-10.02.2021 + 14-17.02.2021. Class No. 1. School Building 48.					0

E. Elective Courses 2:

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

Students are required to complete at least 3 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-0016	Dr. Roy Bernstein	Physicochemical Technologies for Water Treatment	2	Mon	14:15-16:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-3344	Dr. Shirli Bar-David	Guided Reading on Molecular Ecology	2	Guided reading course- limited to two students					0
001-2-4022	Prof. Ehud Meron	Pattern Formation and Spatial Ecology	3	Wed	15:00-18:00	Sede Boqer	Physics	Seminar Room	0
001-2-4028	Prof. Arnon Karnieli	Remote Sensing for Agriculture, Rangelands, and Forestry (no prerequisites required)	3	Tue	12:15-15:00	Sede Boqer	Physics	1	0
001-2-5034	Prof. Yoram Oren	Environmental Oriented Electrochemistry	2	Thu	09:15-11:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-5068	Dr. Oded Nir	Aqueous Chemistry Modeling with PHREEQC	2	An intensive workshop offered during the semester break. February 6-10, 2022 (limited to 16 students).					0
001-2-5069	Prof. Amit Gross, Prof. Osnat Gilor, Prof. Ron Kasher, Prof. Edo Bar-Zeev	Water & the Environmnet: Current challeneges and solotions	3	Online course - Information was published					0
001-2-5100	Dr. Genady Carmi	Introduction to Surface Hydrology	2	Tue	08:30-10:00	Sede Boqer	Water Inst.	Seminar Room	0
900-1-2900	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy	*2	Wed					*students must take two semesters beginning in Semester A and fulfill all course requirements. Info was published

General Courses

Students are required to complete up to 4 credits.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
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001-2-4016	Dr. Leah Orlovsky	Geography of Desertification	2	Sun	11:00-13:00	Sede Boqer	Physics	Room 242	0
001-2-4029	Prof. Yossi Ashkenazy	Introduction to statistics and probability using Python	3	Mon	13:15-16:00	Sede Boqer	Physics	Seminar Room	0

AGROINFORMATICS

B. Core Courses within the Track of Study:

Students are required to take all core courses.

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-5066	Dr. Scott K. Hansen	Introduction to Scientific Computing with Python	3	Tue	12:15-15:00	Sede Boqer	Water Inst.	Seminar Room	0
001-2-4028	Prof. Arnon Karnieli	Remote Sensing for Agriculture, Rangelands, and Forestry (no prerequisites required)	3	Tue	15:00-17:45	Sede Boqer	Physics	Seminar Room	0

C. Seminars and Thesis Writing -- Mandatory Courses:

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

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room
001-2-2222	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (first year)	0	Wed	11:30-12:30	Sede Boqer	Will be updated	Will be updated
001-2-2224	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (first year)						
001-2-2223	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar A (second year)						
001-2-2225	Prof. Noemi Tel-Zur & Dr. Ilya Gelfand (Coordinators)	Departmental Seminar B (second year)						

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

001-2-9991	--	Thesis Writing A	6	Students on their 3rd semester
001-2-9992	--	Thesis Writing B	6	Students on their 4th semester

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

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

D1. Elective Courses Within the Track of the Study:

Students have to complete one of the courses below

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
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001-2-2046	Prof. Aaron Fait	Analysis of Biological Networks	2.5	Wed	08:30-11:00	Sede Boqer	Biology	32	0
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D2. Elective Courses Within the Track of the Study:

Students have to complete one of the courses below

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-3021	Dr. Itamar Giladi	Biostatistics: ANOVA and Design of Experiments - Class (can be completed during the program)	3*	Tue	08:30-10:00	Sede Boqer	Biology	32	*0 credit points for students in the Ecology and Nature Conservation department. Limited to 16 students
		Solving Problems with R - Exercise		Wed	09:15-11:00	Sede Boqer	Man in the Drylands	Computer room	
001-2-4029	Prof. Yossi Ashkenazy	Introduction to statistics and probability using Python	3	Mon	10:15-13:00	Sede Boqer	Physics	Seminar Room	0
001-2-4054	Prof. Golan Bel	Statistical Analysis	3	Thu	09:15-12:00	Sede Boqer	Physics	Seminar Room	0

D3. Elective Courses Within the Track of the Study:

Students have to complete one of the courses below

Course No.	Lecturer	Subject	Credits	Day	Time	Campus	Building	Room	Remarks
001-2-5070	Dr. Scott K. Hansen	Practical Data Science and Machine Learning	3	Tue	10:15-13:00	Sede Boqer	Water Inst.	Seminar Room	Spring semester
001-2-6002	Dr. Aviva Peeters	Theory and Applications of Geographic Information Systems (GIS)	3	Thu	09:15-12:00	Sede Boqer	Water Inst.	Computer Room	Spring semester
001-2-4024	Prof. Arnon Karnieli	Satellite Image Processing	3	Tue	12:15-15:00	Sede Boqer	Physics	1	Spring semester
001-2-2206	Prof. Arnon Karnieli, Dr. Manuel Salvoldi	Earth observation missions for agricultural monitoring	3	Thu	12:15-15:00	Sede Boqer	Physics	Seminar Room	0

E. Elective courses with the approval of their supervisor and the teaching committee

Students have to complete total of 7 credits courses

001-2-5069	Prof. Amit Gross, Prof. Osnat Gilor, Prof. Ron Kasher, Prof. Edo Bar- Zeev	Water & the Environmnet: Current challeneges and solotions	3	Online course - Information was published	0
900-1-2900	Prof. Simon Barak & Dr. Buzi Raviv	BGU Radio Academy	*2	Wed	*students must take two semesters beginning in Semester A and fulfil all course requirements. Info was published