Students who began their studies on semester 2018/2 or 2019/1 are required to complete one of the courses from the list below during in their first or second semester of studies:

### Offered in the Fall semester:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-7006</td>
<td>Dr. Shai Arnon and Summarizing</td>
<td>Summarizing, Writing and Presenting Scientific Data</td>
<td>2</td>
<td>Tue</td>
<td>10:15-12:00</td>
<td>Sede Boqer Water Inst. Seminar Room</td>
<td>Exam</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Offered in the Spring semester:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-0153</td>
<td>Dr. Chris Arnusch and Prof. Jack Gilron</td>
<td>Writing a Scientific Paper</td>
<td>2</td>
<td>Mon</td>
<td>11:15-13:00</td>
<td>Sede Boqer School</td>
<td>1</td>
<td>Final Term Paper</td>
<td></td>
</tr>
</tbody>
</table>

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

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 **Hebrew**


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 and third semesters.** The course is in **Hebrew**

https://moodle2.bgu.ac.il/moodle/ and **English** in the moodle system.

# AGRICULTURE AND BIOTECHNOLOGY

## A. Core Courses:

Seven core courses selected from all core courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2005</td>
<td>Prof. Jhonathan</td>
<td>Plant Physiology under Stress</td>
<td>2</td>
<td>Sun</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td></td>
<td>Ephrath</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2035</td>
<td>Prof. Naftali</td>
<td>Crop Irrigation Regimes</td>
<td>3</td>
<td>Tue</td>
<td>15:15-18:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td></td>
<td>Lazarovitch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2059</td>
<td>Prof. Shimon</td>
<td>Carbon Metabolism and Photosynthesis in a Changing Environment</td>
<td>2</td>
<td>Tue</td>
<td>13:15-15:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td></td>
<td>Rachmilevitch</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>001-2-2065</td>
<td>Dr. Aaron Fait</td>
<td>The Physiology and Metabolism of Fruits: Genetics Vs Environment</td>
<td>4</td>
<td>Tue</td>
<td>08:30-12:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>A Report and Presentation as a Short Seminar</td>
</tr>
<tr>
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</tbody>
</table>

## 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).

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2222</td>
<td>Departmental Seminar A (first year)</td>
<td></td>
<td>0</td>
<td>Wed</td>
<td>11:30-12:30</td>
<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
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<tr>
<td>001-2-2224</td>
<td>Departmental Seminar B (first year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2223</td>
<td>Departmental Seminar A (second year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>001-2-2225</td>
<td>Departmental Seminar B (second year)</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2666</td>
<td>Students Seminar (first year)</td>
<td></td>
<td>0.5</td>
<td>Wed</td>
<td>09:00-10:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
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</tr>
<tr>
<td>001-2-2667</td>
<td>Student Seminar (second year)</td>
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<td></td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9991</td>
<td>--</td>
<td>Thesis Writing A</td>
<td>6</td>
</tr>
<tr>
<td>001-2-9992</td>
<td>--</td>
<td>Thesis Writing B</td>
<td>6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-1000</td>
<td>--</td>
<td>Thesis Writing - Continuation</td>
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</tr>
</tbody>
</table>
### C. Elective Courses within the Track of the Study:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2021</td>
<td>Prof. Dina Zilberg</td>
<td>Aquatic Animal Health</td>
<td>3</td>
<td>Thu</td>
<td>08:30-11:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-2025/6/7</td>
<td>Prof. Dina Zilberg</td>
<td>Practical Fish Disease Diagnosis (A)/(B)/(C) (Prerequisite: Theoretical fish diseases course)</td>
<td>1</td>
<td>Contact the lecturer</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>001-2-2028</td>
<td>Prof. Shmuel Appelbaum</td>
<td>Guided Reading on Economical Utilization of Food Industry Wastes as Aquaculture Feeds, Particularly in Arid lands</td>
<td>2</td>
<td>Guided reading course - limited to two students</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2073</td>
<td>Dr. Noemi Tel-Zur</td>
<td>Plant Breeding and Cytogenetics</td>
<td>2</td>
<td>Sun</td>
<td>11:15-13:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Mid Term Exam and Final Term Exam</td>
</tr>
<tr>
<td>001-2-2037</td>
<td>Prof. Moshe Sagi</td>
<td>Guided Reading on Stress Sensing in Plants</td>
<td>2</td>
<td>Guided reading course - limited to two students</td>
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</tr>
<tr>
<td>001-2-2043</td>
<td>Prof. Shimon Rachmilevitch</td>
<td>Plant Stress Indications: Methods and Instrumentation</td>
<td>2</td>
<td>Final Term Paper</td>
<td></td>
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<td></td>
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<tr>
<td>001-2-2049</td>
<td>Dr. Noemi Tel-Zur</td>
<td>Physiology, Reproduction and Use of Cactus Species</td>
<td>2</td>
<td>Wed</td>
<td>13:15-15:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>136</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-2051</td>
<td>Prof. Inna Khozin-Goldberg</td>
<td>Guided Reading on Lipid Metabolism in Microalgae</td>
<td>2</td>
<td>Guided reading course - limited to two students</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>001-2-2058</td>
<td>Prof. Yitzchak Gutterman</td>
<td>Survival Strategies of Annual Desert Plants</td>
<td>2</td>
<td>Oral exam</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>001-2-2067</td>
<td>Prof. Jhonathan Ephrath</td>
<td>Understanding and Modeling of Agricultural Systems</td>
<td>2</td>
<td>Final Term Paper</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2069</td>
<td>Prof. Inna Khozin-Goldberg</td>
<td>Lipid Biochemistry of Microalgae and Plants</td>
<td>3</td>
<td>Final Paper and Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2071</td>
<td>Dr. Vered Tzin</td>
<td>Molecular Mechanism of Plant-Insect Interactions</td>
<td>3</td>
<td>Final Term Paper and Presentation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-2288</td>
<td>Prof. Jhonathan Ephrath</td>
<td>Guided Reading in Factors Affecting Roots Development under Field Condition</td>
<td>2</td>
<td>Guided reading course - limited to two students</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### C. Elective Courses within the Track of the Study (Continuation):

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2290</td>
<td>Prof. Dina Zilberg</td>
<td>Guided Reading on Aquatic Animal Health</td>
<td>2</td>
<td>Guided reading course - limited to two students</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-5005</td>
<td>Prof. Amit Gross, Prof. Zeev Ronen</td>
<td>Laboratory Methods for Environmental Studies</td>
<td>3</td>
<td>An eight-day intensive course offered during the FALL break 3-7.2.2019 and 10-12.2.2019, 08:30-15:30, Water Building, Seminar Room. Course registration took place by the School Secretariat.</td>
<td></td>
<td></td>
<td></td>
<td>Final Term Paper</td>
<td></td>
</tr>
</tbody>
</table>

### D. General Courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-1103</td>
<td>Dr. Hadas Hawlena</td>
<td>Introduction to Dryland Ecology</td>
<td>4</td>
<td>The first meeting will be held on Wed., 27.02.2019, at 13:15-16:00, in classroom no. 1 - The School Building. The final time will be scheduled with the lecturer and the students.</td>
<td></td>
<td></td>
<td></td>
<td>Final Term Paper</td>
<td></td>
</tr>
</tbody>
</table>

### IRRIGATION AND PLANT ENVIRONMENT

#### A. Courses within the Track of the Study:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2005</td>
<td>Prof. Jhonathan Ephrath</td>
<td>Plant Physiology under Stress</td>
<td>2</td>
<td>Sun</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-2035</td>
<td>Prof. Naftali Lazarovitch</td>
<td>Crop Irrigation Regimes</td>
<td>3</td>
<td>Tue</td>
<td>15:15-18:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-2204</td>
<td>Dr. Gilboa Arye</td>
<td>Agricultural and Environmental Aspects in Soil Sciences</td>
<td>3</td>
<td>Wed</td>
<td>15:15-18:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>136</td>
<td>Final Term Paper</td>
</tr>
</tbody>
</table>

#### 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).

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2222</td>
<td>Dr. Vered Tzin &amp; Dr. Ilya Geifand (Coordinators)</td>
<td>Departmental Seminar A (first year)</td>
<td>0</td>
<td>Wed</td>
<td>11:30-12:30</td>
<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
</tr>
<tr>
<td>001-2-2223</td>
<td>Prof. Shimon Rachmilevitch</td>
<td>Departmental Seminar A (second year)</td>
<td>0</td>
<td>Wed</td>
<td>09:00-10:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
</tr>
</tbody>
</table>
### B. Seminars and Thesis Writing -- Mandatory Courses (Continuation):

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9991</td>
<td>--</td>
<td>Thesis Writing A</td>
<td>6</td>
</tr>
<tr>
<td>001-2-9992</td>
<td>--</td>
<td>Thesis Writing B</td>
<td>6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-1000</td>
<td>--</td>
<td>Thesis Writing - Continuation</td>
<td>0</td>
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### C. Elective Courses within the Track of the Study:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-2067</td>
<td>Prof. Jhonathan Ephrath</td>
<td>Understanding and Modeling of Agricultural Systems</td>
<td>2</td>
<td>Mon</td>
<td>15:15-17:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-5005</td>
<td>Prof. Amit Gross, Prof. Zeev Ronen</td>
<td>Laboratory Methods for Environmental Studies</td>
<td>3</td>
<td>An eight-day intensive course offered during the FALL break 3-7.2.2019 and 10-12.2.2019, 08:30-15:30, Water Building, Seminar Room. Course registration took place by the School Secretariat.</td>
<td>Final Term Paper</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>001-2-5026</td>
<td>Prof. Ali Nejidat</td>
<td>Nitrogen Transformations and Environmental Quality</td>
<td>2</td>
<td>Mon</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-5026</td>
<td>Prof. Ali Nejidat</td>
<td>Nitrogen Transformations and Environmental Quality</td>
<td>2</td>
<td>Mon</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
</tbody>
</table>

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**SOLAR ENERGY AND THE ENVIRONMENTAL PHYSICS**

### A. Seminars and Thesis Writing -- Mandatory Courses:

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-4444</td>
<td>Dr. Arik Yochelis and Dr. Roiy Sayage (Coordinators)</td>
<td>Departmental Seminar A (first year)</td>
<td>0.25</td>
<td>Tue</td>
<td>10:00-12:00</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
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</tbody>
</table>
### A. Seminars and Thesis Writing -- Mandatory Courses (Continuation):

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9991</td>
<td>--</td>
<td>Thesis Writing A</td>
<td>6</td>
</tr>
<tr>
<td>001-2-9992</td>
<td>--</td>
<td>Thesis Writing B</td>
<td>6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-1000</td>
<td>--</td>
<td>Thesis Writing - Continuation</td>
<td>0</td>
</tr>
</tbody>
</table>

### B. Elective Courses within the Track of the Study:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-4012</td>
<td>Prof. Isaak Rubinstein</td>
<td>Electro-Diffusion of Ions and Membrane Desalination Processes</td>
<td>3</td>
<td>Flexible</td>
<td>according to</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4025</td>
<td>Prof. Daniel Feuermann</td>
<td>Heat Transfer</td>
<td>3</td>
<td>Tue</td>
<td>13:15-16:00</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4027</td>
<td>Prof. Yossi Ashkenazy</td>
<td>Introduction to Geophysical Fluid Dynamic</td>
<td>3</td>
<td>Mon</td>
<td>13:15-16:00</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-4031</td>
<td>Prof. Isaak Rubinstein</td>
<td>Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (A)</td>
<td>2</td>
<td>Flexible</td>
<td>according to</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4033</td>
<td>Prof. Isaak Rubinstein</td>
<td>Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (B)</td>
<td>2</td>
<td>Flexible</td>
<td>according to</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4034</td>
<td>Prof. Georgy Burde</td>
<td>Application of Symmetry Methods to Problems in Mathematical Physics - Continuation Course</td>
<td>3</td>
<td>Flexible</td>
<td>according to</td>
<td>Sede Boqer</td>
<td>Physics</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4036</td>
<td>Prof. Georgy Burde</td>
<td>Topics in Environmental Fluid Mechanics - B</td>
<td>3</td>
<td>Flexible</td>
<td>according to</td>
<td>Sede Boqer</td>
<td>Solar</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-4046</td>
<td>Prof. Eugene Katz</td>
<td>Advanced Concepts in Photovoltaic Devices</td>
<td>3</td>
<td>Sun</td>
<td>11:15-14:00</td>
<td>Sede Boqer</td>
<td>Solar</td>
<td>Seminar Room</td>
<td>Exam</td>
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</tbody>
</table>
B. Elective Courses within the Track of the Study (Continuation):

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
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<tbody>
<tr>
<td>001-2-4047</td>
<td>Dr. Iris Visoli-Fisher</td>
<td>Surface Science for the Environment</td>
<td>3</td>
<td>Mon</td>
<td>09:15-12:00</td>
<td>Sede Boqer</td>
<td>Solar</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
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</table>

D. Courses Outside the Track of Study and Introductory Courses:

Students are required to complete 6 credits either from other tracks of study or from the list of introductory courses below.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-1103</td>
<td>Dr. Hadas Hawlena</td>
<td>Introduction to Dryland Ecology</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Final Term Paper</td>
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</table>

ENVIRONMENTAL AND AQUATIC MICROBIOLOGY

A. Mandatory Courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-5005</td>
<td>Prof. Amit Gross, Prof. Zeev Ronen</td>
<td>Laboratory Methods for Environmental Studies</td>
<td>3</td>
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<td></td>
<td>Final Term Paper</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-5555</td>
<td>Dr. Chris Arnusch (Coordinator)</td>
<td>Departmental Seminar A (first year)</td>
<td>0</td>
<td>Wed</td>
<td>13:00-14:00</td>
<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
<td></td>
</tr>
<tr>
<td>001-2-5557</td>
<td></td>
<td>Departmental Seminar B (first year)</td>
<td>0</td>
<td>Wed</td>
<td>13:00-14:00</td>
<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
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</tr>
<tr>
<td>001-2-5556</td>
<td></td>
<td>Departmental Seminar A (second year)</td>
<td>0</td>
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<td></td>
<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
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<tr>
<td>001-2-5558</td>
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<td>Departmental Seminar B (second year)</td>
<td>0</td>
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<td>Sede Boqer</td>
<td>Old Admin. Build.</td>
<td>Seminar Room</td>
<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9995</td>
<td>Prof. Ali Nejidat (Coordinator)</td>
<td>Student Seminar (first year)</td>
<td>0.5</td>
<td>Wed</td>
<td>09:00-10:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td></td>
</tr>
<tr>
<td>001-2-9996</td>
<td></td>
<td>Student Seminar (second year)</td>
<td>0.5</td>
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<td></td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9991</td>
<td>--</td>
<td>Thesis Writing A</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>001-2-9992</td>
<td>--</td>
<td>Thesis Writing B</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

B. 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:
### Elective Courses 1:
Students are required to complete at least 10 credits.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
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<tbody>
<tr>
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<td>Thesis Writing - Continuation</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C. 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 superviser.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-0009</td>
<td>Dr. Avraham Be'er</td>
<td>Physics of Bacterial Communities</td>
<td>3</td>
<td>Mon</td>
<td>13:15-16:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-3086</td>
<td>Dr. Hadas Hawlena</td>
<td>Microbial Ecology</td>
<td>3</td>
<td>Mon</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-2021</td>
<td>Prof. Dina Zilberg</td>
<td>Aquatic Animal Health</td>
<td>3</td>
<td>Thu</td>
<td>08:30-11:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>32</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-5012</td>
<td>Prof. Zeev Ronen</td>
<td>Biodegradation Process of Synthetic Organic Compound in Water Soil</td>
<td>2</td>
<td>Thu</td>
<td>10:15-12:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-5026</td>
<td>Prof. Ali Nejidat</td>
<td>Nitrogen Transformations and Environmental Quality</td>
<td>2</td>
<td>Mon</td>
<td>09:15-11:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-5038</td>
<td>Prof. Amit Gross</td>
<td>Water Sanitation</td>
<td>3</td>
<td>Thu</td>
<td>12:15-15:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Exam</td>
</tr>
<tr>
<td>001-2-5040</td>
<td>Dr. Eli Zaady</td>
<td>Soil Microbial Ecology (upon the request of at least 5 students)</td>
<td>2</td>
<td>Tue</td>
<td>08:30-10:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-5060</td>
<td>Prof. Moshe Herzberg</td>
<td>Biological Processes in Wastewater Treatment</td>
<td>2</td>
<td>Thu</td>
<td>15:15-17:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-5063</td>
<td>Dr. Edo Bar-Zeev</td>
<td>Lab-course: New Methods in Biofilm Characterization</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>An intensive course offered during the SUMMER break, 14-19.7.2019, Water Building, Seminar Room. Course registration takes place during the registration period for the SUMMER semester. Final Term Paper and Exam</td>
</tr>
<tr>
<td>001-2-5129</td>
<td>Prof. Noam Weisbrod</td>
<td>Rural Water Development (Field Trip) - Prerequisite: Course # 001-2-5029 Rural Water Development</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Field Trip during the Summer Break. Course registration takes place during the registration period for the SPRING semester.</td>
</tr>
</tbody>
</table>

D. Elective Courses 2:
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 3 credits.
### Course Information

<table>
<thead>
<tr>
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<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-0012</td>
<td>Prof. Daniel Ronen</td>
<td>Selected Issues Related to Groundwater Hydrology: Quality &amp; Quantity</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-1103</td>
<td>Dr. Hadas Hawlena</td>
<td>Introduction to Dryland Ecology</td>
<td>4</td>
<td>Thu</td>
<td>08:30-10:00</td>
<td>Sede Boqer</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
<td></td>
</tr>
<tr>
<td>001-2-5034</td>
<td>Prof. Yoram Oren</td>
<td>Environmental Oriented Electrochemistry</td>
<td>2</td>
<td>Thu</td>
<td>08:30-10:00</td>
<td>Sede Boqer</td>
<td>Water Inst.</td>
<td>Exam</td>
<td></td>
</tr>
<tr>
<td>001-2-5062</td>
<td>Dr. Edo Bar-Zeev</td>
<td>Microbial Sociology: From a Single Bacterium to Biofilm and Biofouling</td>
<td>3</td>
<td>Mon</td>
<td>16:15-19:00</td>
<td>Sede Boqer</td>
<td>Seminar Room</td>
<td>Final Term Paper</td>
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</tr>
</tbody>
</table>

### General Courses:

Students are required to complete up to 4 credits.

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-3045</td>
<td>Dr. Shirli Bar-David</td>
<td>Conservation Genetics</td>
<td>3</td>
<td>Tue</td>
<td>14:15-17:00</td>
<td>Sede Boqer</td>
<td>Biology</td>
<td>136</td>
<td>Final Term Paper</td>
</tr>
<tr>
<td>001-2-6002</td>
<td>Dr. Aviva Peeters</td>
<td>Theory and Applications of Geographic Information Systems (GIS)</td>
<td>3</td>
<td>Thu</td>
<td>09:15-12:00</td>
<td>Sede Boqer</td>
<td>Man in Drylands</td>
<td>Computer Room</td>
<td>Final Term Paper</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL STUDIES

#### A. Mandatory Courses:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-6057</td>
<td>Dr. Yaakov Garb</td>
<td>Introduction to Research Methods</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>001-2-0153</td>
<td>Dr. Chris Arnusch and Prof. Jack Gilron</td>
<td>Writing a Scientific Paper</td>
<td>2</td>
<td>Mon</td>
<td>11:15-13:00</td>
<td>Sede Boqer</td>
<td>School</td>
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</table>

#### A. Mandatory Courses (Continuation):

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
</table>
### B. Seminars and Thesis Writing - Mandatory Courses:

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
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</thead>
<tbody>
<tr>
<td>001-2-6999</td>
<td></td>
<td>Departmental Seminar A (first year)</td>
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<td></td>
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</tr>
<tr>
<td>001-2-6998</td>
<td>Prof. David Pearlmutter (Coordinator)</td>
<td>Departmental Seminar B (first year)</td>
<td>0</td>
<td>Tue</td>
<td>13:00-14:30</td>
<td>Sede Boqer</td>
<td>48</td>
<td>2</td>
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<tr>
<td>001-2-6997</td>
<td></td>
<td>Departmental Seminar A (second year)</td>
<td></td>
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<tr>
<td>001-2-6996</td>
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<td>Departmental Seminar B (second year)</td>
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</table>

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

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-9991</td>
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<td>Thesis Writing A</td>
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<tr>
<td>001-2-9992</td>
<td></td>
<td>Thesis Writing B</td>
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</table>

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

<table>
<thead>
<tr>
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<th>Subject</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>001-2-1000</td>
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<td>Thesis Writing - Continuation</td>
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### C. Elective Courses within the Track of the Study:

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-2-6001</td>
<td>Prof. David Pearlmutter</td>
<td>Building Design in the Desert</td>
<td>2</td>
<td>Thu</td>
<td>14:15-16:00</td>
<td>Sede Boqer</td>
<td>48</td>
<td>2</td>
<td>Final Term Paper</td>
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<td>001-2-6002</td>
<td>Dr. Aviva Peeters</td>
<td>Theory and Applications of Geographic Information Systems (GIS)</td>
<td>3</td>
<td>Thu</td>
<td>09:15-12:00</td>
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<td>Man in Drylands</td>
<td>Computer Room</td>
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<td>001-2-6005</td>
<td>Prof. Evyatar Erell</td>
<td>Urban Microclimate in the Desert</td>
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<tr>
<td>001-2-6023</td>
<td>Prof. Isaac Meir</td>
<td>Modern Bioclimatic Architecture</td>
<td>4</td>
<td>Tue</td>
<td>08:30-12:00</td>
<td>Sede Boqer</td>
<td>48</td>
<td>2</td>
<td>Exam, Final Project and Oral Presentation</td>
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### C. Elective Courses within the Track of the Study (Continuation):

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<tr>
<th>Course No.</th>
<th>Lecturer</th>
<th>Subject</th>
<th>Credits</th>
<th>Day</th>
<th>Time</th>
<th>Campus</th>
<th>Building</th>
<th>Room</th>
<th>Final Assignments</th>
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<td>Course Title</td>
<td>Credit</td>
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<td>001-2-6024</td>
<td>Prof. Evyatar Erell</td>
<td>Passive Heating and Cooling of Buildings</td>
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<td>001-2-6037</td>
<td>Dr. Yaakov Garb</td>
<td>Introduction to Statistics</td>
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