

Hydrology and Water Quality

Semester: 2026-B

Microbiology and Water Quality-New

A

Mandatory Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------------|---|---|---------|-----|-------------|----------------|----------|------|--|
| 001-2-0153 G1 | Dr. Chris Arnush, Dr. Scott Hansen | Writing a Scientific Paper - Goup 1 | 2 | Tue | 13:00-15:00 | Sde Boker | School | | 1 Students are required to complete the course in their second semester of studies |
| 001-2-0153 G2 | Dr. Chris Arnush, Dr. Scott Hansen | Writing a Scientific Paper - Group2 | 2 | Mon | 09:00-11:00 | Sde Boker | School | | 1 Students are required to complete the course in their second semester of studies |
| 470-2-0100 | prof. Roi Gazit and Dr. Shira Ovadia | The Care and Use of Animals in Research | 0 | | | Online program | | | |
| 900-5-2002 | Online Program | Training in Chemical & Biological Safety | 0 | | | Online program | | | |
| 900-5-5001 | Online Program | Educational Software on Getting to Know the Law for the Prevention of Sexual Harassment | 0 | | | Online program | | | |

B Students are required to complete all courses from the category list

Mandatory Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|--------------------|-----------------------|---------|-----|-------------|-----------|-------------|--------------|-----|
| 001-2-0003 | Prof. Oded Nir | Chemistry of Water | 3 | Thu | 09:00-12:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-5024 | Prof. Ofer Dahan | Groundwater Hydrology | 2.5 | Wed | 10:00-13:00 | Sde Boker | School | 2 | |
| 001-2-5059 | Prof. Osnat Gillor | Water Microbiology | 3 | Wed | 15:00-18:00 | Sde Boker | Water Inst. | Seminar Room | |

Elective Courses

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|-----------|----------|---------|---------|-----|------|--------|----------|------|-----|
|-----------|----------|---------|---------|-----|------|--------|----------|------|-----|

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Elective Courses

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|------------|--------------------|------------------------------|---------|--|------|--------|----------|------|--|
| 001-2-5159 | Prof. Osnat Gillor | Introduction to Microbiology | 1 | the second week of the spring semester | | | | | A semi intensive course for non-biologists who take the 001-2-5059 Water Microbiology course . Schedule will be coordinate between the students and the lecturer |

C Seminars and Thesis Writing -- Mandatory Courses: Students are required to attend Departmental Seminar 4 times (one seminar per semester).

Students are required to present two seminars (one student seminar per year).

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

Mandatory Courses

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|------------|---|-------------------------------|---------|-----|-------------|-----------|-------------------|--------------|--|
| 001-2-5555 | Prof. Avner Ronen and Dr. Elad Levintal (Coordinator) | Departmental Seminar | 0 | Wed | 13:00-14:00 | Sde Boker | Old Admin. Build. | Seminar Room | Mandatory each semester. 4 times during the degree |
| 001-2-9991 | | Thesis Writing - A | 6 | | | | | | Mandatory for students on their 3rd semester |
| 001-2-9992 | | Thesis Writing -B | 6 | | | | | | Mandatory for students on their 4rd semester |
| 001-2-9995 | Prof. Roy Bernstein (Coordinator) | Student Seminar (first year) | 0.5 | Wed | 09:00-10:00 | Sde Boker | Water Inst. | Seminar Room | Mandatory for students on their 1st year |
| 001-2-9996 | Prof. Roy Bernstein (Coordinator) | Student Seminar (second year) | 0.5 | Wed | 09:00-10:00 | Sde Boker | Water Inst. | Seminar Room | Mandatory for students on their 2nd year |

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|----------|-------------------------------|---------|-----|------|--------|----------|------|--|
| 001-2-1000 | | Thesis Writing - Continuation | 0 | | | | | | Mandatory for students on study extenstion |

D Students are required to complete at least 7 credits from this category

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Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|---------------------------------------|---|---------|-----|-------------|-----------|-------------|--------------|--|
| 001-2-0004 | Prof. Noam Weisbrod | Vadose Zone Hydrology (The course will be taught if at least 5 students are enrolled) | 2.5 | Mon | 08:30-11:00 | Sde Boker | Water Inst. | Seminar Room | the course will be held if at least 5 students will register |
| 001-2-5005 | Prof. Amit Gross, Prof. Zeev Ronen | Laboratory Methods for Environmental Studies | 3 | TBD | 08:30-18:00 | Sde Boker | Water Inst. | 10 | An eight-day intensive course offered the summer |
| 001-2-5060 | Prof. Moshe Herzberg | Biological Processes in Wastewater Treatment | 2 | Tue | 16:00-18:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-5062 | Prof. Edo Bar-Zeev | Introduction to Biofilms | 3 | Tue | 10:00-13:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-5069 | MOOC | Water & the Environment: Current challenges and solutions | 3 | | | | | | Online course. Frontal exam in Sde-Boker campus |

E Students are required to complete at least 8 credits from this category

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|-------------------------|---|---------|-----|-------------|-----------|-------------|--------------|---|
| 001-2-0015 | Prof. Roy Bernstein | Membrane Preparation and Characterization | 3 | Tue | 13:00-16:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-0021 | Dr. Christopher Arnusch | Biomimetic Innovation Approaches | 3 | Mon | 14:00-18:00 | Sde Boker | Water Inst. | 10 | |
| 001-2-5010 | Prof. Zeev Ronen | Groundwater Microbiology | 2 | Thu | 14:00-16:00 | Sde Boker | Water Inst. | 10 | |
| 001-2-5034 | Prof. Yoram Oren | Environmental Oriented Electrochemistry | 2 | Thu | 09:00-11:00 | Sde Boker | Water Inst. | 10 | |
| 001-2-5036 | Prof. Avner Ronen | Environmental micropollutants & emerging contaminants | 2 | Sun | 11:00-13:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-5038 | Prof. Amit Gross | Water Sanitation | 3 | Thu | 12:00-15:00 | Sde Boker | Water Inst. | Seminar Room | |
| 001-2-5067 | Dr. Scott K. Hansen | Introduction to Contaminant Hydrology | 3 | Mon | 13:00-16:00 | Sde Boker | Water Inst. | Seminar Room | The course will be held if a minimum of 3 students are registered |
| 001-2-5068 | Prof. Oded Nir | Aqueous Chemistry Modeling with PHREEQC | 2 | TBD | 09:00-15:00 | Sde Boker | Water Inst. | Seminar Room | Six days intensive course offered during the summer |

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| 001-2-5070 | Dr. Scott K. Hansen | Practical Data Science and Machine Learning | 3 | Tue | 15:00-18:00 | Sde Boker | Water Inst. | 10 | The course will be held if a minimum of 3 students are registered |
| 001-2-5071 | Prof. Gideon Oron | Management and optimization of natural resources and water systems | 2 | Wed | 14:00-16:00 | Sde Boker | Water Inst. | 10 | |
| 001-2-5074 | Dr. Elad Levintal | Envirotech - do it yourself sensors for environmental research | 3 | Sun | 15:00-18:00 | Sde Boker | Water Inst. | Seminar Room | Course is limited to 8 students |
| 001-2-5076 | Dr. Elad Levintal | Do-it-yourself sensors for environmental research – advanced course 2 | 1.5 | Sun | 13:00-15:00 | Sde Boker | Water Inst. | 10 | This is a yearly course. Registration is contingent upon the successful completion of the Fall semester course 001.2.5075. |

F Students are required to complete 2-3 credits in this category

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|-------------------|---|---------|-----|-------------|-----------|----------|---------------|--|
| 001-2-5040 | Dr. Eli Zaady | Soil Microbial Ecology | 2 | Sun | 08:30-10:30 | Sde Boker | School | 2 | (upon the request of at least 5 students) |
| 001-2-6002 | Dr. Aviva Peeters | Theory and Applications of Geographic Information Systems (GIS) | 3 | TBD | | Sde Boker | School | Computer Room | Summer course. Registration during the summer registration period. |

New - for students who began from November 2024