

Hydrology and Water Quality

Semester: 2026-B

Desalination and Water Treatment-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 Core Courses: Students are required to complete 13 credits*.

*** 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).**

Mandatory Courses

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

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Mandatory Courses

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|------------|--------------------|--------------------|---------|-----|-------------|-----------|-------------|--------------|-----|
| 001-2-5059 | Prof. Osnat Gillor | Water Microbiology | 3 | Wed | 15:00-18:00 | Sde Boker | Water Inst. | Seminar Room | |

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|--------------------|------------------------------|---------|--|------|--------|----------|------|--|
| 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 tiimes (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

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|---|-------------------------------|---------|-----|-------------|-----------|-------------------|--------------|--|
| 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 |

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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 extension |

D Students are required to complete at least 5 credits in this category

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|---------------------------------------|---|---------|-----|-------------|-----------|-------------|--------------|--|
| 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 |
| 001-2-5036 | 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 | |
| 001-2-5060 | Prof. Moshe Herzberg | Biological Processes in Wastewater Treatment | 2 | Tue | 16:00-18:00 | 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 5 credits in this category

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 |
| 001-2-0015 | 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 | |
| 001-2-0032 | Dr. Christopher Arnusch | Advanced Chemistry in Water Technologies | 3 | Tue | 09:00-12:00 | 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 | |

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|------------|---------------------|---|---------|-----|-------------|-----------|-------------|--------------|--|
| 001-2-5062 | Prof. Edo Bar-Zeev | Introduction to Biofilms | 3 | Tue | 10:00-13:00 | Sde Boker | Water Inst. | Seminar Room | |
| 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 |
| 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 at least 4 credits

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|-------------------|---|---------|-----|-------------|-----------|----------|---------------|--|
| 001-2-2046 | Prof. Aaron Fait | Analysis of Biological Networks | 3 | Wed | 12:30-15:30 | Sde Boker | Biology | 32 | |
| 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