

Hydrology and Water Quality

Semester: 2024-A

Microbiology and Water Quality

A

Mandatory Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|------------|---|---|---------|-----|-------------|----------------|-------------|------|--|
| 001-2-0153 | Dr. Chris Arnush, Dr. Scott Hansen | Writing a Scientific Paper | 2 | Tue | 13:15-15:00 | Sede Boqer | Water Inst. | 15 | Students are required to complete the course in their second semester of studies (or 3rd semester) |
| 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 all courses from the list below*.

*** 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).**

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|------------|---------------------|--|---------|--------|-------------|------------|-----------------|--------------|--------------|
| 001-2-0016 | Prof. Roy Bernstein | Physicochemical Technologies for Water Treatment | 2 | Mon | 14:15-16:00 | Sede Boqer | Water Inst. | Seminar Room | Frontal Exam |
| 001-2-5059 | Prof. Osnat Gillor | Water Microbiology | 3 | Sunday | 12:15-15:00 | Sede-Boqer | Water Institute | Seminar Room | |

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| 001-2-5159 | Prof. Osnat Gillor | Introduction to Microbiology | 1 | | | | | | 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

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|------------|----------------------------------|-------------------------------|---------|-----|-------------|------------|----------------------|-----------------|--|
| 001-2-1000 | | Thesis Writing - Continuation | 0 | | | | | | Mandatory for students on study extension |
| 001-2-5555 | Dr. Avner Ronen (Coordinator) | Departmental Seminar | 0 | Wed | 13:00-14:00 | Sede Boqer | 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 |

D Mandatory Core Courses Within the Track of Study:

Students are required to complete at least 7 credits*.

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

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|------------|---------------------------------------|--|---------|-----------------------|-------------|------------|-------------|------|---|
| 001-2-5005 | Prof. Amit Gross, Prof. Zeev Ronen | Laboratory Methods for Environmental Studies | 3 | 19- 28.03. 2024 | 08:30-18:00 | Sede Boqer | Water Inst. | 10 | An eight-day intensive course offered during the fall break Registration during the spring registration period |

E Elective Courses: Students are required to complete at least 8 credits.

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

Elective Courses

| Course No | Lecturer | Subject | Credits | Day | Time | Campus | Building | Room | Rem |
|---------------|---|---|---------|-----|-------------|------------|-------------|---------------|---|
| 001-2-0017 | Prof. Roni Kasher | Polymer Science and Polymeric Membranes | 3 | Mon | 11:15-14:00 | Sede Boqer | Water Inst. | Seminar Room | Frontal Exam |
| 001-2-0022 | Dr. Anat Bernstein | Stable Isotope Application in Contaminant Hydrology | 2 | Wed | 08:30-10:00 | Sede Boqer | Water Inst. | Seminar Room | Frontal Exam |
| 001-2-0027 | Prof. Shai Arnon | Flow and water quality in streams: Theory and practice | 2 | Sun | 10:15-12:00 | Sede Boqer | Water Inst. | Seminar Room | |
| 001-2-2015 | Prof. Dina Zilberg, Prof. Amit Gross | Introduction to Aquaculture | 3 | Tue | 12:15-15:00 | Sede Boqer | Water Inst. | 10 | |
| 001-2-3021 | Prof. Itamar Giladi | Biostatistics: Class (can be completed during the program) | 3 | Tue | 08:30-10:00 | Sede Boqer | Biology | 32 | Final exam in a computer lab.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students |
| 001-2-3021 EX | Prof. Itamar Giladi | Biostatistics: Exersice (can be completed during the program) | | Wed | 09:15-11:00 | Sede Boqer | School | Computer room | Final exam in a computer lab.*0 credit points for students in the Ecology and Nature Conservation department. Limited to 17 students |

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| 001-2-4031 | Prof. Isaak Rubinstein | Topics in Physico-Chemical Hydrodynamics and Electrodiffusion (A) | 2 | | | | | | schedule will be coordinated between the lecturer and the students |
| 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 | |
| 001-2-5029 | Prof. Noam Weisbrod | Rural Water Development | 2 | Mon | 16:15-18:00 | Sede Boqer | Water Inst. | Seminar Room | (minimum 12 students) |
| 001-2-5063 | Prof. Edo Bar-Zeev | Lab-course: New Methods in Biofilm Characterization | 3 | 07-12.04.2024 not final | 08:30-17:00 | Sede Boqer | | | An intensive course offered during the FALL break. Home Exam |
| 001-2-5066 | Dr. Scott K. Hansen | Introduction to Scientific Computing with Python | 3 | Tue | 10:15-13:00 | Sede Boqer | Water Inst. | Seminar Room | |
| 001-2-5068 | Prof. Oded Nir | Aqueous Chemistry Modeling with PHREEQC | 2 | 07-12.04.2024 | 09:00-15:00 | Sede Boqer | Water Inst. | Seminar Room | Intensive workshop offered during the fall break |
| 001-2-5069 | MOOC | Water & the Environment: Current challenges and solutions | 3 | | | | | | Online course. Frontal Exam |

F General Courses:

Students are required to complete 2-3 credits.

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| 001-2-1200 | Prof. Simon Barak & Dr. Buzi Raviv | BGU Radio Academy – Podcast production course | 2 | 14- 19.04. 2024 | | Sede Boqer | School | 1 | A five day intensive course offered during the fall break. Registration during the spring registration period. The course will be held contingent upon registration of minimum 4 students |
| 001-2-4029 | Prof. Yosef Ashkenazy | Introduction to statistics and probability using Python | 3 | Mon | 10:15 -13:00 | Sede Boqer | Physics | Seminar Room | Frontal Exam |