Course: Microbiology — credits: 10

Course code	BOVH24RMICROBIO
Name	Microbiology
Study year	2025-2026
ECTS credits	10
Language	Dutch, with parts in English
Coordinator	J. de Keyzer
Modes of delivery	Lecture Practical / Training Teaching method 1 Teaching method 2 Tutorial
Assessments	Microbiologie Theorie - Computer, organised by STAD examinations Practicum & Project Microbiologie - Other assessment

Learning outcomes

- You describe the characteristics and (metabolic) functions of microorganisms and explain how these contribute to the functioning of these microorganisms according to current scientific insights;
- You use knowledge about the physiological and metabolic properties of microorganisms to explain pathogenicity, the action of, and resistance to antimicrobial agents;
- You understand the principle of methods for culturing, analyzing, and identifying microorganisms and apply them correctly within microbiological (research) projects;
- You design a work plan to isolate and analyze microorganisms from complex samples, carry out this work plan, and analyze the results according to the specified guidelines in a digital logbook and a scientific report;
- You gain insight into professional competencies (DAS) and link them to your own professional development. You reflect on your study progress both in writing and orally.

Content

In this module, the basics of microbiology are covered. You delve into the structure, metabolism, and growth of prokaryotic microorganisms. Attention is also given to the interaction between humans and microorganisms and the function of antibiotics. The acquired knowledge is assessed through written exams. During the practical component, you learn various methods to (selectively) culture, isolate, and identify microorganisms. With this knowledge, you design your own isolation method for a microorganism in a project and execute your plan. The practical component is supported by lessons on microbiological techniques and project work. You process and discuss the results in a digital logbook and a scientific report.

Included in programme(s)

Major Biology and Medical Research

School(s)

Institute for Life Science & Technology

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