



Module Title	Bridging Life Sciences
Code	MCCf036
Degree Programme	Master of Science – Circular Innovation and Sustainability
ECTS Credits	6
Workload	180 hours
Module Coordinator	Name: Dr. Silvia Zingg Phone: +41 (0) 31 910 21 32 Email: silvia.zingg@bfh.ch Address: BFH – HAFL, Länggasse 85, 3052 Zollikofen
Lecturers	<ul style="list-style-type: none"> • Dr. Ruth Debernardi; HAFL • Dr. Christian Trindler; HAFL • Dr. Stefan Mellema; HAFL
Entry Requirements	None
Competencies upon Completion	<p>After completing the module, students will be able to:</p> <ul style="list-style-type: none"> • understand and apply the basics of organic and inorganic chemistry; • describe the structure and the properties of organic macromolecules, cells and living organisms; • describe the energy flow and chemical cycling in living organisms and in the ecosystem; • describe the human induced changes in the environment.
Content	<p>Bridging modules take place during the first quarter of the first semester. They lay the ground for interdisciplinary learning and teaching in the subsequent modules.</p> <p>By the end of this course, students will be able to understand the basic concepts and principles of chemistry, biology, and ecology.</p>
Teaching and Learning Methods	<ul style="list-style-type: none"> • Contact teaching • Flipped classroom
Competency Assessment	<ul style="list-style-type: none"> • Intermediate written exam: 50% of overall grade (week 4) • Final written exam: 50% of overall grade (week 7)
Mode of Repetition	<p>Should a student fail the module, they have one more attempt. They may either:</p> <ul style="list-style-type: none"> • Retake a written exam (100%) during the next resit examination session. • Repeat the entire module next time it is offered.
Format	4 lessons per week over 7 weeks
Attendance	Not mandatory
Module Type	Compulsory
Timing of the Module	Autumn Semester, Calendar Weeks 38 to 44
Venue	Onsite HAFL, Länggasse 85, 3052 Zollikofen

Literature	Literature will be provided before the start of the module via Moodle.
Language	English
Links to Other Modules	The Bridging module "Life Sciences" provides fundamental knowledge in the fields of chemistry, biology, and ecology, which is necessary for the subsequent science- and ecology-oriented modules.
Last Update	February 2026