



Module Title	
Bridging life sciences	
Code	MCCf036
Degree Programme	Master of Science - Circular Innovation and Sustainability
ECTS Credits	6
Workload	180 hours <ul style="list-style-type: none"> • 15 hours contact teaching • 6 hours lab/practical exercises • 159 hours guided self-study
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
Entry Requirements	None
Learning Outcomes and Competences	After completing the module, students will be able to: <ul style="list-style-type: none"> • understand and apply the basics of organic 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.
Module Content	Bridging modules will take place during the first quarter of the first semester. They lay the ground for interdisciplinary learning and teaching in the subsequent modules. By the end of this course, students will be able to understand the basic concepts and principles of chemistry, biology, and ecology.
Teaching / Learning Methods	<ul style="list-style-type: none"> • Contact teaching • Flipped classroom
Assessment of Learning Outcome	<ul style="list-style-type: none"> • Intermediate written exam - 50% grade (week 4) • Final written exam - 50% grade (week 7)
Conditions of assessment repetition	In case of failure, students can either: <ul style="list-style-type: none"> • Do the re-examination (one written exam – 100%, all the course content) during the next re-examination period in February. • Redo the full module one year later. <p>NB: in MSc CIS, failed modules can only be repeated once!</p>
Format	4 lessons per week over 7 weeks
Attendance & Compulsory session	Not compulsory
Timing of the module	Autumn Semester

Venue	On-site at HAFL
Location	Zollikofen
Bibliography	Literature will be provided before the start of the module.
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	May 2023