

**Annual Plan MSLS for the Cooperation Modules**  
valid for Autumn semester 2023

(subject to change)

CW	Autumn-Semester 2023														Spring-Semester 2024																																				
	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13*	14*	15	16	17	18*	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
<b>Exams</b> (see examination plan)	Replacement for the BECS-cluster as of AS23! Newly takes place on <b>Thursday</b> . More details will follow asap - current information still subject to change														preferred slot for re-examinations																																				
<b>CS, Thursday</b>	CC CS														CC CS																																				
<b>Cluster Computation</b>	CO1: Modelling of Complex Systems (Olten and/or online)							CO2: Machine Learning and Pattern Recognition (Olten and/or online)							CO3: Optimisation and Bio-inspired Algorithms (Olten and/or online)							CO4: Imaging for the Life Sciences (Olten and/or online)																													
<b>Cluster Food</b>	FO: Journal Club Food and Nutrition Sciences (Bern and/or online)							F1: Progresses in Food Processing (Sion)							F2: Nutrition and Nutrition Related Diseases (Olten)							F3: Foodomics (Bern and/or online)							F4: Sustainable Food Supply Chains (Olten and/or online)																						
<b>Cluster Bio/Pharma</b>	BP1: Compound Profiling in Pharmaceutical Drug Discovery (Olten and/or online)							BP2: Physicochemical Principles in Pharmaceutics (Olten and/or online)							BP3: Design of Biopharmaceutical Production Facilities (Wädenswil)							BP7: Bioanalytics in a Regulated Environment (Murtens)							BP5: Physiology and Immunotherapies (Bern and/or online)							BP6: Tissue Engineering for Drug Discovery (Bern/Olten and/or online)															
<b>Cluster Chemistry</b>	C1: Materials Science (Olten and/or online)							C2: Surface Characterisation (Olten and/or online)							C3: Polymers and Applications (Fribourg)							C4: Green Chemistry (Olten and/or online)							C5: Chemistry and Energy (Olten and/or online)																						
<b>Cluster Environment</b>	E1: Journal Club Environmental and Natural Resource Sciences (Bern and/or online)							E2: Life Cycle Assessment (Bern and/or online)							E3: Sustainable Natural Resource Management (Zollikofen)							E4: Ecological Infrastructure in Landscapes (Geneva)							E5: Biodiversity (Bern and/or online)							E6: Water Management for Households, Industry and Agriculture (Olten and/or online)															
<b>CC, Friday online (ZHAW, FHNW)</b>	<b>Lectures</b> Morning (4 lessons) D1 D1 D1 D1 D1 D1 D1 D2 D2 D2 D2 D2 D2 D2 Afternoon (4 lessons) D4 D4 D4 D4 D4 D4 D4 D3 D3 D3 D3 D3 D3 D3 <b>Coaching/Teaching</b> <i>individually per school, 2 lessons per cell</i> D1 D1 D1 D1 D1 D1 D1 D2 D2 D2 D2 D2 D2 D2 D4 D4 D4 D4 D4 D4 D4 D3 D3 D3 D3 D3 D3 D3														<b>Exams (CC and CS-Modules) &amp; re-examination</b> B1 B1 B1 B1 B1 B1 B1 B1 B3 B3 B3 B3 B3 B3 B3 B2 B2 B2 B2 B2 B2 B2 B2 B4 B4 B4 B4 B4 B4 B4 B1 B1 B1 B1 B1 B1 B1 B1 B3 B3 B3 B3 B3 B3 B3 B2 B2 B2 B2 B2 B2 B2 B2 B4 B4 B4 B4 B4 B4 B4 D1 D1 D1 D1 D1 D1 D1 D2 D2 D2 D2 D2 D2 D2 D4 D4 D4 D4 D4 D4 D4 D3 D3 D3 D3 D3 D3 D3 D1 D1 D1 D1 D1 D1 D1 D2 D2 D2 D2 D2 D2 D2 D4 D4 D4 D4 D4 D4 D4 D2 D2 D3 D3 D3 D3 D3																																				
<b>CC, Friday online (BFH, HES-SO)</b>																													<b>Lectures</b> Morning (4 lessons) B1 B1 B1 B1 B1 B1 B1 B3 B3 B3 B3 B3 B3 B3 Afternoon (4 lessons) B2 B2 B2 B2 B2 B2 B2 B4 B4 B4 B4 B4 B4 B4 <b>Coaching/Teaching</b> <i>individually per school, 2 lessons per cell</i> B1 B1 B1 B1 B1 B1 B1 B3 B3 B3 B3 B3 B3 B3 B2 B2 B2 B2 B2 B2 B2 B4 B4 B4 B4 B4 B4 B4																						

**Legende:**  
 CC: Core Competences  
 CS: Cluster specific modules  
 D1: Handling and Visualising Data  
 D2: Design and Analysis of Experiments  
 D3: Modelling and Exploration of Multivariate Data  
 D4: Data and Ethics  
 B1: Business Administration for Life Sciences  
 B2: Management and Leadership for Life Sciences  
 B3: Innovation and Project Management  
 B4: Politics and Society  
 \* Changes possible due to public holidays  
 \*\* no synchronous lectures due to Good Friday