

Framework Timetable Applied Computational Life Sciences

Autumn Semester

CW38-44		
Mon-Tues (Wädenswil and online)	Thursday (Olten/Berne and online)	Friday (online)
V5_1 Programming Algorithms and Data-Structures	CO1 Modelling of Complex Systems (Olten)	D1 Handling and Visualising Data
V5_2 Mathematical Modelling	F6 Journal Club "Food and Nutrition Sciences" (Berne)	D4 Data and Ethics
V5_9 Advanced Deep Learning	BP1 Compound Profiling in Pharmaceutical Drug Discovery (Olten)	
	C1 Materials Science (Olten)	
	E1 Journal Club Environmental and Natural Resource Sciences (Berne)	
Comment	- Modules can be attended in the same semester Attention: Modules can not be attended in the same semester	- Modules can be attended in the same semester Attention: decentralized Teaching takes place on Tuesday morning in Wädenswil

Spring Semester

CW08-14		
Mon-Tues (Wädenswil and online)	Thursday (Berne/Olten and online)	Friday (online)
V5_4 Databases and Data Architecture Systems	CO3 Optimisation and Bio-Inspired Algorithms (Olten)	B1 Business Administration for Life Sciences
V5_6 Neural Networks and Deep Learning	F3 Foodomics (Berne)	B2 Management and Leadership for Life Sciences
V5_8 Computational Life Science Seminar	BP5 Physiology and Immunotherapies (Berne)	
	C4 Green Chemistry (Olten)	
	E5 Biodiversity (Berne)	
Comment	- Modules can be attended in the same semester Attention: Modules can not be attended in the same semester	- Modules can be attended in the same semester Attention: decentralized Teaching takes place on Tuesday morning in Wädenswil

CW45-51		
Mon-Tues (Wädenswil and online)	Thursday (Olten/Berne and online)	Friday (online)
V5_1 Programming Algorithms and Data-Structures	V5_5 (CO2) Machine Learning and Pattern Recognition (Olten)	D2 Design and Analysis of Experiments
V5_2 Mathematical Modelling	BP8 Physicochemical Principles in Pharmaceutics (Olten)	D3 Modelling and Exploration of Multivariate Data
V5_9 Advanced Deep Learning	E2 Life Cycle Assessment (Berne)	
	C2 Surface Characterisation (Olten)	
Comment	- Modules can be attended in the same semester Attention: Modules can not be attended in the same semester	- Modules can be attended in the same semester Attention: decentralized Teaching takes place on Tuesday morning in Wädenswil

CW15-21		
Mon-Tues (Wädenswil and online)	Thursday (Olten and online)	Friday (online)
V5_4 Databases and Data Architecture Systems	CO4 Imaging for the Life Sciences	B3 Innovation and Project Management
V5_6 Neural Networks and Deep Learning	F4 Sustainable Food Supply Chains (Olten)	B4 Politics and Society
V5_8 Computational Life Science Seminar	BP6 Tissue Engineering for Drug Discovery (Olten)	
	C5 Chemistry and Energy (Olten)	
	E6 Water Management for Households, Industry and Agriculture (Olten)	
Comment	- Modules can be attended in the same semester Attention: Modules can not be attended in the same semester	- Modules can be attended in the same semester Attention: decentralized Teaching takes place on Tuesday morning in Wädenswil

CW04	CW06
whole week	whole week
F1 Progress in Food Processing (Sion)	F2 Nutrition and Nutrition Related Chronic Diseases (Olten)
BP3 Design of Biopharmaceutical Production Facilities (Wädenswil)	BP7 Bioanalytics in a Regulated Environment (Muttentz)
E3 Sustainable Natural Resource Management (Zollikofen)	C3 Polymers and Applications (Fribourg)
	E4 Ecological Infrastructure in Landscapes (Geneva)
Comment	Attention: Modules can not be attended in the same semester

CW25	CW26
whole week	whole week
F5 Advanced Sensory Techniques (Changins)	C6 Industrial Chemical Process Safety (Fribourg)
BP4 Regulatory Affairs (Sion)	
Attention: Modules can not be attended in the same semester	

Core Competences (D: Data / B: Business)	4 modules / at least 12 ECTS Compulsory D1, D2, D3
Cluster-specific modules	3 modules / at least 9 ECTS in the category Computation: CO1-CO4 Compulsory CO1, CO3
Cluster-specific modules from other areas	all modules from the other areas
Total cooperation modules	24-30 ECTS
Specialisation skills	Compulsory V5_1 - V5_7 Elective V5_8, V5_9
Total specialisation skills	30-36 ECTS
Master's thesis	Compulsory Milestone 1-3
Total Milestones (Master's thesis)	30 ECTS
Required number of ECTS for completion	90 ECTS