## Framework Timetable Applied Computational Life Sciences

## **Autumn Semester**

	CW38-44		
	Mon-Tues (Wädenswil and online)	Thursday (Olten/Berne and online)	Friday (online)
	5_1 Programming Algorithms and Data- tructures	CO1 Modelling of Complex Systems (Olten)	D1 Handling and Visualising Data
V:	5_2 Mathematical Modelling	F6 Journal Club "Food and Nutrition Sciences" (Berne)	D4 Data and Ethics
V!	5_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)	
- 1	Modules can be attended in the same semester	Attention: Modules can not be attended in the	- Modules can be attended in the same semester
ent		same semester	
ioni			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)		

	- Modules can be attended in the same semester	Attention: Modules can not be attended in the	- Modules can be attended in the same semester
Comment		same semester	
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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 (Muttenz)
E3 Sustainable Natural Resource Management (Zollikofen)	C3 Polymers and Applications (Fribourg)
	E4 Ecological Infrastructure in Landscapes (Geneva)
Attention: Modules can not be attended in the same semester	Attention: Modules can not be attended in the same semester

	4 modules / at least 12 ECTS	
Core Competences (D: Data / B: Business)	Compulsory	
	D1, D2, D3	
	3 modules / at least 9 ECTS in the category	
Cluster-specific modules	Computation: CO1-CO4	
Cluster-specific modules	Compulsory	
	CO1, CO3	
Cluster-specific modules from other areas	all modules from the ohter areas	
Total cooperation modules	24-30 ECTS	
	Compulsory	
Specialisation skills	V5_1 - V5_7	
oposianou acino	Elective	
	V5 8, V5 9	
Total specialisation skills	30-36 ECTS	
Master's thesis	Compulsory	
musici s tricsis	Milestone 1-3	
Total Milestones (Master's thesis)	30 ECTS	
Required number of ECTS for completion	90 ECTS	

## 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)		
- 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)		
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	

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