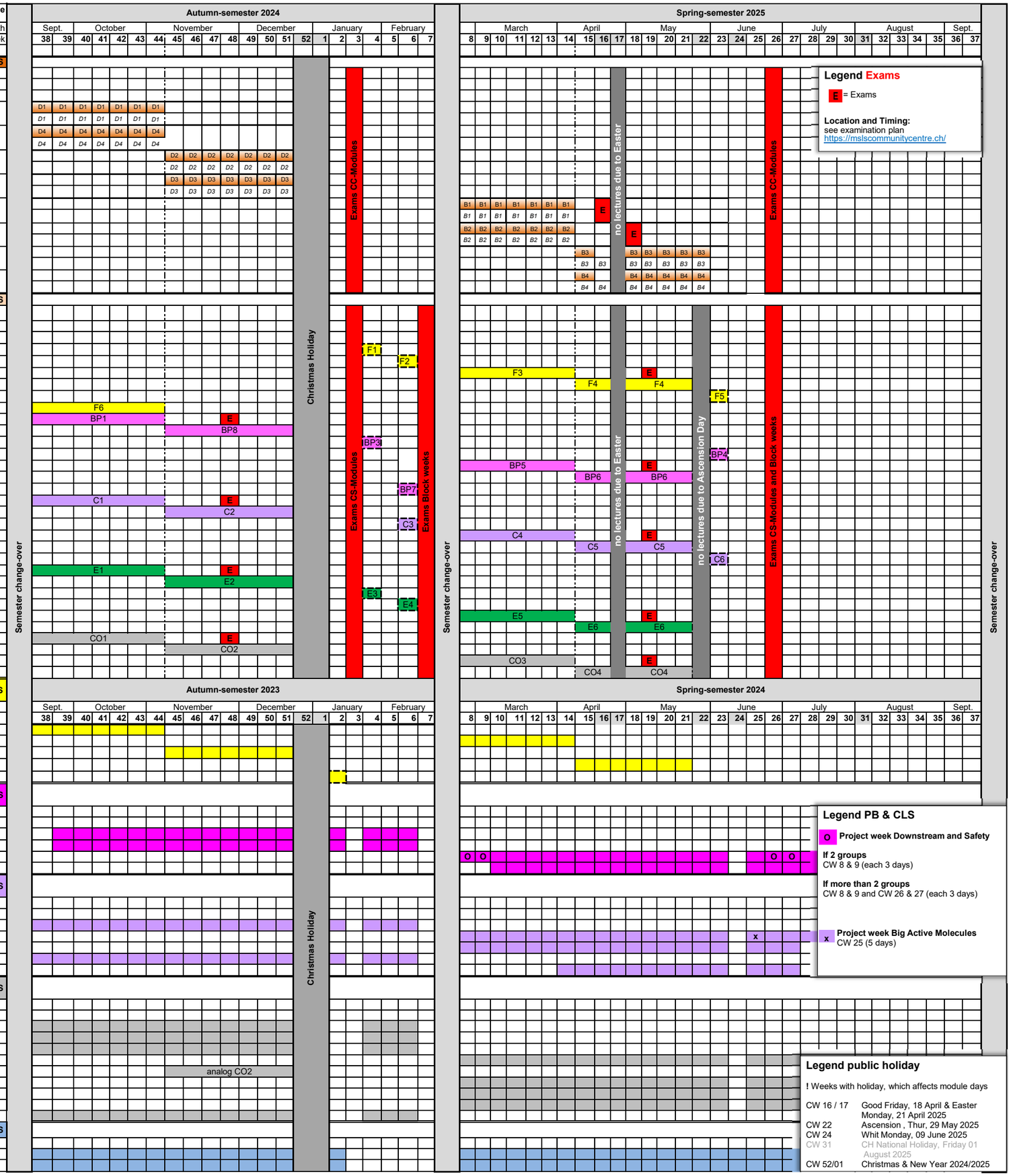		Periode	
		Month	
		Calendar week	
	Code	**Modules**	
Cooperation	**CC**	**Core Competences (at least 12 ECTS)**	**ECTS**
Lessons: Friday, whole day			
Location: online. For the details please check moodle (https://mslscommunitycentre.ch/)			
V - Recommendation			
all V, V2 and V5 obligat.	D1	Handling and Visualising Data *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V	D4	Data and Ethics *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V, V5 obligat.	D2	Design and Analysis of Experiments *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V, V5 obligat.	D3	Modelling and Exploration of Multivariate Data *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V	B1	Business Administration for Life Sciences *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V	B2	Management and Leadership for Life Sciences *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V	B3	Innovation and Project Management *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
all V	B4	Politics and Society *Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)*	3
Cooperation	**CS**	**Cluster specific modules (at least 9 ECTS)**	**ECTS**
Time: Thursday whole day or blockweek (BW) in CW 4, 6, 23			
Location: tba. For the details please check moodle (https://mslscommunitycentre.ch/)			
Cluster / Group			
Food	F1	Progress in Food Processing (BW)	3
Food	F2	Nutrition and Nutrition Related Chronic Diseases (BW)	3
Food	F3	Foodomics	3
Food	F4	Sustainable Food Supply Chains	3
Food	F5	Advanced Sensory Techniques (BW)	3
Food	F6	Journal Club "Food and Nutrition Sciences"	3
Bio/Pharma	BP1	Compound Profiling in Pharmaceutical Drug Discovery	3
Bio/Pharma	BP8	Physicochemical Principles in Pharmaceutics	3
Bio/Pharma	BP3	Design of Biopharmaceutical Production Facilities (BW)	3
Bio/Pharma	BP4	Regulatory Affairs (BW)	3
Bio/Pharma	BP5	Physiology and Immunotherapies	3
Bio/Pharma	BP6	Tissue Engineering for Drug Discovery	3
Bio/Pharma	BP7	Bioanalytics in a Regulated Environment (BW)	3
Chemistry	C1	Materials Science	3
Chemistry	C2	Surface Characterisation	3
Chemistry	C3	Polymers and Applications (BW)	3
Chemistry	C4	Green Chemistry	3
Chemistry	C5	Chemistry and Energy	3
Chemistry	C6	Industrial Chemical Process Safety (BW)	3
Environment	E1	Journal Club Environmental and Natural Resource Sciences	3
Environment	E2	Life Cycle Assessment	3
Environment	E3	Sustainable Natural Resource Management (BW)	3
Environment	E4	Ecological Infrastructure in Landscapes (BW)	3
Environment	E5	Biodiversity	3
Environment	E6	Water Management for Households, Industry and Agriculture	3
Computation, V5 obligat	CO1	Modelling of Complex Systems	3
Computation	CO2	Machine Learning and Pattern Recognition	3
Computation, V5 obligat	CO3	Optimisation and Bio-Inspired Algorithms	3
Computation	CO4	Imaging for the Life Sciences	3
ZHAW ILGI	**V1**	**Food and Beverage Innovation (Total 20 ECTS)**	**ECTS**
Time: Mon - Wed			
Location: tba			
tba	V1_1	Food Innovation	5
tba	V1_2	Product and Process Design	5
tba	V1_3	Managing the Food Supply Chain	5
tba	V1_4	Food, Society and Nutrition	5
tba	V1_5	Digital Food Business	3
ZHAW ICBT	**V2**	**Pharmaceutical Biotechnology (Total 20 ECTS)**	**ECTS**
Time: mostly Monday, other days possible			
Location: tba			
tba	V2_1	Biodesign: Ways to Active Pharmaceutical Ingredients (API)	5
tba	V2_2	Bioprocessing and Bioanalytics	5
tba	V2_3	Downstream and Safety (note **o** !)	5
tba	V2_4	Drug Formulation and Biological Test Systems	5
ZHAW ICBT	**V3**	**Chemistry for the Life Sciences (Total 20 ECTS)**	**ECTS**
Presence-time: primarily Mon-Wed, partly whole week			
Location: tba			
tba	V3_1	Small Active Molecules	4
tba	V3_2	Big Active Molecules (note **x** !)	4
tba	V3_3	Biomaterial and Functional Surfaces	4
tba	V3_4	Analytical Technologies	4
tba	V3_5	Green Chemistry - Advanced Concepts	4
ZHAW ICLS	**V5**	**Applied Computational Life Sciences (Total 30 ECTS)**	**ECTS**
Time: Attendance time Mon & Tue, Track modules individually			
Location: tba			
tba	V5_1	Programming Algorithms and Data-Structures	5
tba	V5_2	Mathematical Modelling	5
tba	V5_3	Track module 1	5
tba	V5_4	Databases and Data Architecture Systems	4
Thursday	V5_5	*Machine Learning and Pattern Recognition*	3
tba	V5_6	Neural Networks and Deep Learning	3
tba	V5_7	Track module 2	5
tba	V5_8	Computational Life Science Seminar	3
tba	V5_9	Advanced Deep Learning	3
ZHAW	**V1 - V5**	**Master's Thesis (Total 30-40 ECTS)**	**ECTS**
Location: ZHAW or external			
by arrangement	V_M	Master's Thesis (V1-V3)	40
by arrangement	V_M	Master's Thesis (V5)	30