

				Autumn-semester 2023																												Spring-semester 2024																																																														
				Sept.							October							November							December							January							February							March							April							May							June							July							August							Sept.						
				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	37																																							
Code	Modules	ECTS	Calendar week																																																																																											
Cooperation	CC	Core Competences (at least 12 ECTS)	ECTS																																																																																											
Lessons: Friday, whole day																																																																																														
Location: online. For the details please check moodle (https://mislcommunitycentre.ch/)																																																																																														
V - Recommendation																																																																																														
all V, V5 obligat.	D1	Handling and Visualising Data <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V	D4	Data and Ethics <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V, V5 obligat.	D2	Design and Analysis of Experiments <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V, V5 obligat.	D3	Modelling and Exploration of Multivariate Data <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V	B1	Business Administration for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V	B2	Management and Leadership for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V	B3	Innovation and Project Management <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
all V	B4	Politics and Society <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>	3																																																																																											
Cooperation	CS	Cluster specific modules (at least 9 ECTS)	ECTS																																																																																											
Time: Thursday whole day or blockweek (BW) in CW 4, 6, 25, 26																																																																																														
Location: tba. For the details please check moodle (https://mislcommunitycentre.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 Pharmaceuticals	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																																																																																											

Legend Exams

E = Exams

Location and Timing: see examination plan <https://mislcommunitycentre.ch/>

***Computation:** Replacement for the BECS-cluster as of AS23! Newly takes place on **Thursday**. More details will follow asap - current information still subject to change

Legend PB & CLS

O Project week Downstream and Safety

If 2 groups
CW 8 & 9 (each 3 days)

If more than 2 groups
CW 8 & 9 and CW 26 & 27 (each 3 days)

x Project week Big Active Molecules
CW 25 (5 days)

**The module is held in AS23 for the last time in the autumn semester. From SS24 onwards, the module will only take place in the spring semester.

Legend public holiday

! Weeks with holiday, which affects module days

CW 13 / 14 Good Friday, 29 March & Easter Monday, 01 April 2024

CW 19 Ascension, Thur, 09 May 2024

CW 21 Whit Monday, 20 May 2024

CW 31 CH National Holiday, Thur., 01 August 2024

CW 52 Christmas & New Year 2023/2024