

			Autumn-semester 2022																												Spring-semester 2023																																																														
			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																																																																																											
Cooperation	CC	Core Competences (at least 15 ECTS)																																																																																											
Lessons: Friday, whole day																																																																																													
Location: online. For the details please check moodle (https://milscommunitycentre.ch/)																																																																																													
V - Recommendation																																																																																													
all V, V5 obligat.	D1	Handling and Visualising Data <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V	D4	Data and Ethics <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V, V5 obligat.	D2	Design and Analysis of Experiments <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V, V5 obligat.	D3	Modelling and Exploration of Multivariate Data <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V	B1	Business Administration for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V	B2	Management and Leadership for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V	B3	Innovation and Project Management <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
all V	B4	Politics and Society <i>Decentralized Teaching ZHAW in Wädenswil (Tuesday Morning)</i>																																																																																											
Cooperation	CS	Cluster specific modules (at least 9 ECTS)																																																																																											
Time: Thursday whole day or blockweek (BW) in CW 4, 5, 6, 25, 26 / *Lecture Group BECS: Wed.																																																																																													
Location: tba. For the details please check moodle (https://milscommunitycentre.ch/)																																																																																													
Cluster / Group																																																																																													
Food	F1	Progress in Food Processing (BW)																																																																																											
Food	F2	Nutrition and Nutrition Related Chronic Diseases (BW)																																																																																											
Food	F3	Foodomics																																																																																											
Food	F4	Sustainable Food Supply Chains																																																																																											
Food	F5	Advanced Sensory Techniques (BW)																																																																																											
Food	F6	Journal Club "Food and Nutrition Sciences"																																																																																											
Bio/Pharma	BP1	Compound Profiling in Pharmaceutical Drug Discovery																																																																																											
Bio/Pharma	BP8	Physicochemical Principles in Pharmaceuticals																																																																																											
Bio/Pharma	BP3	Design of Biopharmaceutical Production Facilities (BW)																																																																																											
Bio/Pharma	BP4	Regulatory Affairs (BW)																																																																																											
Bio/Pharma	BP5	Physiology and Immunotherapies																																																																																											
Bio/Pharma	BP6	Tissue Engineering for Drug Discovery																																																																																											
Bio/Pharma	BP7	Bioanalytics in a Regulated Environment (BW)																																																																																											
Chemistry	C1	Materials Science																																																																																											
Chemistry	C2	Surface Characterisation																																																																																											
Chemistry	C3	Polymers and Applications (BW)																																																																																											
Chemistry	C4	Green Chemistry																																																																																											
Chemistry	C5	Chemistry and Energy																																																																																											
Chemistry	C6	Industrial Chemical Process Safety (BW)																																																																																											
Environment	E1	Journal Club Environmental and Natural Resource Sciences																																																																																											
Environment	E2	Life Cycle Assessment																																																																																											
Environment	E3	Sustainable Natural Resource Management (BW)																																																																																											
Environment	E4	Ecological Infrastructure in Landscapes (BW)																																																																																											
Environment	E5	Biodiversity																																																																																											
Environment	E6	Water Management for Households, Industry and Agriculture																																																																																											
BECS*, V5 obligat.	BECS1	Modelling of Complex Systems																																																																																											
BECS*	BECS2	Machine Learning and Pattern Recognition																																																																																											
BECS*, V5 obligat.	BECS4	Optimisation Methods																																																																																											
BECS*	BECS3	Medical Imaging and Image Processing																																																																																											
ZHAW	ILGI	Food and Beverage Innovation (Total 20 ECTS)																																																																																											
Time: Mon - Wed																																																																																													
Location: tba																																																																																													
tba	V1_1	Food Innovation																																																																																											
tba	V1_2	Product and Process Design																																																																																											
tba	V1_3	Managing the Food Supply Chain																																																																																											
tba	V1_4	Food, Society and Nutrition																																																																																											
tba	V1_5	Digital Food Business																																																																																											
ZHAW	ICBT	Pharmaceutical Biotechnology (Total 20 ECTS)																																																																																											
Time: mostly Monday, other days possible																																																																																													
Location: tba																																																																																													
tba	V2_1	Biodesign: Ways to Active Pharmaceutical Ingredients (API)																																																																																											
tba	V2_2	Bioprocessing and Bioanalytics																																																																																											
tba	V2_3	Downstream and Safety (note o !)																																																																																											
tba	V2_4	Drug Formulation and Biological Test Systems																																																																																											
ZHAW	ICBT	Chemistry for the Life Sciences (Total 20 ECTS)																																																																																											
Presence-time: primarily Mon-Wed, partly whole week																																																																																													
Location: tba																																																																																													
tba	V3_1	Small Active Molecules																																																																																											
tba	V3_2	Big Active Molecules (note x !)																																																																																											
tba	V3_3	Biomaterial and Functional Surfaces																																																																																											
tba	V3_4	Analytical Technologies																																																																																											
tba	V3_5	Green Chemistry - Advanced Concepts																																																																																											
ZHAW	ICLS	Applied Computational Life Sciences (Total 30 ECTS)																																																																																											
Time: Attendance time Mon & Tue, Track modules individually																																																																																													
Location: tba																																																																																													
tba	V5_1	Programming Algorithms and Data-Structures																																																																																											
tba	V5_2	Mathematical Modelling																																																																																											
tba	V5_3	Track module 1																																																																																											
tba	V5_4	Databases and Data Architecture Systems																																																																																											
Wednesday	V5_5	Machine Learning and Pattern Recognition	analog BECS2																																																																																										
tba	V5_6	Neural Networks and Deep Learning																																																																																											
tba	V5_7	Track module 2																																																																																											
tba	V5_8	Computational Life Science Seminar																																																																																											
tba	V5_9	Advanced Deep Learning																																																																																											
ZHAW	V1 - V5	Master's Thesis (Total 30-40 ECTS)																																																																																											
Location: ZHAW or external																																																																																													
by arrangement	V_M	Master's Thesis (V1-V3)																																																																																											
by arrangement	V_M	Master's Thesis (V5)																																																																																											

Legend Exams

E = Exams

Location: TBD

Timing: see examination plan <https://milscommunitycentre.ch/>

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)

Legend public holiday

! Weeks with holiday, which affects module days

CW 14 / 15 Good Friday, 07 April & Easter Monday, 10 April 2023

CW 20 Ascension, Thur, 18 May 2023

CW 22 Whit Monday, 29 May 2023

CW 31 CH National Holiday, Mon., 1 August 2023

CW 52 Christmas & New Year 2022/2023