

| | | | Periode |
|--|----------------|--|---------------|
| | | | Month |
| | | | Calendar week |
| Code | Modules | | ECTS |
| Cooperation | CC | Core Competences (at least 15 ECTS) | ECTS |
| Lessons: Friday, whole day | | | |
| Location: online. For the details please check moodle (https://mslscmunitycentre.ch) | | | |
| V - Recommendation | | | |
| all V, V5 obligat. | D1 | Handling and Visualising Data <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V, V5 obligat. | D2 | Design and Analysis of Experiments <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V, V5 obligat. | D3 | Modelling and Exploration of Multivariate Data <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V | B1 | Business Administration for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V | B2 | Management and Leadership for Life Sciences <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V | B3 | Innovation and Project Management <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| all V | B4 | Politics and Society <i>Decentralized Teaching ZHAW in Wädenswil (Tues. 8.00-11.35am)</i> | 3 |
| Cooperation | CS | Cluster specific modules (at least 9 ECTS) | ECTS |
| Time: Thursday whole day or blockweek (BW) in CW 4, 5, 6, 25 / *Lecture Group BECS: Wed. | | | |
| Location: mainly online. For the details please check moodle (https://mslscmunitycentre.ch) | | | |
| Cluster / Group | | | |
| Food | F1 | Progresses 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 | BP2 | Drug Formulation and Delivery for Solid Dosage Forms | 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 | Test Methods for Biopharmaceuticals in Pharmaceutical Quality Control (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 |
| BECS*, V5 obligat. | BECS1 | Modelling of Complex Systems | 3 |
| BECS* | BECS2 | Machine Learning and Pattern Recognition | 3 |
| BECS*, V5 obligat. | BECS4 | Optimisation Methods | 3 |
| BECS* | BECS3 | Medical Imaging and Image Processing | 3 |
| ZHAW ILGI | V1 | Food and Beverage Innovation (Total 20 ECTS) | ECTS |
| Time: Mon - Wed | | | |
| Location: The lessons will be partially provided online, and partially at ZHAW premises. Please check your weekly schedule for the details. | | | |
| GA 209 | V1_1 | Food Innovation | 5 |
| RH 108 | V1_2 | Product and Process Design | 5 |
| GA 209 | V1_3 | Managing the Food Supply Chain | 5 |
| RH 108 | V1_4 | Food, Society and Nutrition | 5 |
| GA 207 | V1_5 | Digital Food Business | 3 |
| ZHAW ICBT | V2 | Pharmaceutical Biotechnology (Total 20 ECTS) | ECTS |
| Time: mostly Monday, other days possible | | | |
| Location: The lessons will be partially provided online, and partially at ZHAW premises. Please check your weekly schedule for the details. | | | |
| RH 112 | V2_1 | Biodesign: Ways to Active Pharmaceutical Ingredients (API) | 5 |
| RH 112 | V2_2 | Bioprocessing and Bioanalytics | 5 |
| RH 112 | V2_3 | Downstream and Safety (note o !) | 5 |
| RH 112 | 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: ZHAW Reidbach Room RS 02 | | | |
| RS 02 | V3_1 | Small Active Molecules | 4 |
| RS 02 | V3_2 | Big Active Molecules (note x !) | 4 |
| RS 02 | V3_3 | Biomaterial and Functional Surfaces | 4 |
| RS 02 | V3_4 | Analytical Technologies | 4 |
| RS 02 | V3_5 | Green Chemistry - Advanced Concepts | 4 |
| ZHAW IAS | V5 | Applied Computational Life Sciences (Total 30 ECTS) | ECTS |
| Time: Attendance time Mon & Tue, Track modules individually | | | |
| Location: The lessons will be partially provided online, and partially at ZHAW premises. Please check your weekly schedule for the details. | | | |
| GS c7 | V5_1 | Programming Algorithms and Data-Structures | 5 |
| GS c7 | V5_2 | Mathematical Modelling | 5 |
| GS c7 | V5_3 | Track module 1 | 5 |
| GS c7 | V5_4 | Databases and Data Architecture Systems | 5 |
| Wed. in Olten | V5_5 | <i>Machine Learning and Pattern Recognition</i> | 3 |
| GS c7 | V5_6 | Neural Networks and Deep Learning | 2 |
| GS c7 | V5_7 | Track module 2 | 5 |
| GS c7 | V5_8 | Computational Life Science Seminar | 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 |

| Autumn-semester 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------|----------|----------|---------|----------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Sept. | October | November | December | January | February | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Christmas Holiday | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autumn-semester 2020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sept. | October | November | December | January | February | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Christmas Holiday | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spring-semester 2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | April | May | June | July | August | Sept. | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |

| Spring-semester 2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|-------|-----|------|------|--------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
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| 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 |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Christmas Holiday | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Semester change-over | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spring-semester 2021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| March | April | May | June | July | August | Sept. | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |

Legend Exams

E = Exams

Location:
TBD

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

*These lectures are offered as distance learning units

***F1**
CW4: implementation in reduced infrastructural setting. (limited places)
CW26: normal implementation
Contact master.lsfm@zhaw.ch for detailed information

Legend PB & CLS

O Project week Downstream and Safety
Lecture Mon-Wed
If 1 group: CW 8 (3 days)
If 2 groups: CW 8 & 9 (each 3 days)

x Project week Big Active Molecules
Lecture Mon-Wed
If 1 group: CW 25 (5 days)
If 2 groups: CW 25 & 26 (each 5 days)

Legend public holiday

! Weeks with holiday, which affects module days

- CW 13 / 14 Good Friday, 2 April & Easter Monday, 5 April 2021
- CW 17 Labour Day, Sat., 1 May 2021 (not for cooperation modules)
- CW 19 Ascension, Thur., 13 May 2021
- CW 21 Whit Monday, 24 May 2021
- CW 30 CH National Holiday, Sun., 1 August 2021
- CW 51/52 Christmas & New Year 2021/2022