M Sc Molecular Life Sciences

Special qualification Biochemistry / Chemical Biology

Program for fall semester

Please always check CTS (KSL) for details and actual dates!

KSL Nr.	Eligible for special qualification module BCCB (or for general module)	ECTS
2216	**"Omics" - from genomes to metabolomes. Thu 14-16, ICB Prof. C. Largiadèr, PD Dr. R. Bruggmann**	**3**
2222	**Dynamics of cellular contacts: Cell-cell contacts and cell motility. Thu 16-18, ICB Prof. B. Engelhardt et al.**	**3**
26795	**Chemical biology I (every 4th semester), Tue 15-17, DCBP Dr. S. Javor**	**3**
3462	**Chemical biology II (every 4th semester), Tue 15-17, DCBP Dr. S. Javor**	**3**
406196	**Applied MS spectroscopy, Mon 13-15, week 1-7, DCBP Prof. S. Schürch**	**1.5**
412058	**RNA Biology I (every 4th semester). Thu 16-18, DCBP Prof. N. Polacek**	**3**
412073	**RNA Biology II (every 4th semester). Thu 16-18, DCBP Prof. N. Polacek**	**3**
435913	**From organelle biochemistry to human disease. Tue 10-12, week 1-7, ICB Prof. J.-M. Nuoffer et al.**	**1.5**
469451	**mRNA translation and its regulation, Thu 08-10, ICB (from fall 2026) Prof. S. Leidel**	**2**
KSL Nr.	**Eligible for general module only**	**ECTS**
2221	Colloquium on host-pathogen interactions, Fri 16.30-18.30, monthly (year course, begin either in fall or spring), ICB Prof. C. Faso et al.	4
2225	Laboratory safety. Block course, 3 days, IPS Prof. D. Rentsch, Dr. P. von Ballmoos	1.5
3025	Chemical crystallography. Wed 10-12, DCBP PD Dr. S. Grabowsky	3
9256	Lecture Series on Advanced Microscopy. Fri 8-10, ANA Prof. R. Lyck	3
24824	Physical Chemistry III: Spectroscopy, incl. Exercises, Mon 10-12 and 15-16, DCBP Prof. N. Banerji, Dr. J. Réhault	4
25455	Methods in microscopy with lab course. Tue 16-17.30 and 3x Tue 13-16, ICB Dr. S. Knüsel	3
27240	Disease & Repair in the CNS, Thu 12-13, ICB Prof. V. Enzmann et al.	1.5
455614	Functional Ecology (lecture and practical); Dates to be determined, IPS Prof. C. Robert, Dr. P. Mateo	5
473205	Systems Biology (BEFRI), Tue 15-17, Please see CTS for venue! Prof. B. Towbin et al.	3
478583	Introduction to Microbial Ecology and Evolution, Mon 13-15, IEE Dr. D. Johnson	2
485489	MCID Colloquium: what is pandemic preparedness? Wed 10-12 (8x), DCBP PD Dr. Dijkman et al.	2
485837	Basic Immunology. Wed 14-16, ICB Prof. V. Heussler, Dr. P. Fernandez	3
486669	Critical assessment of scientific data and literature in life sciences; Wed, 16-18, week 8-14, DCBP Prof. O. Mühlemann, Dr. S. Nasif	1.5

The special qualification module (SPQ-BCCB) must comprise 15 ECTS points from the learning units shown in boldface.

For the general module (GEN), additional credits can be accumulated from master courses of all five specialisations. This module may also contain up to 10 ECTS points in learning units from the BSc programs in Biology, Biochemistry and Molecular Biology, or Chemistry and Molecular Sciences. If a learning unit is not already programmed in KSL, students should ask the head of studies for approval. On request, learning units from outside institutions and other programs (e.g., UniFR or the Swiss Institute for Bioinformatics) may also be included.

The total number of credits of both modules must be at least 30 ECTS points.

Additionally, while the students are enrolled in the program, they must follow two hours per week of seminar series of the respective institute according to recommendations made by the prospective MSc supervisor.

N. Polacek / A. Hochuli 11.08.2025