

M Sc Molecular Life Sciences

Special qualification **Biochemistry/Chemical Biology**

Program for spring semester

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

KSL Nr.	Eligible for special qualification module BCCB (or for general module)	ECTS
2226	Membrane biochemistry, Wed 16-18, IBMM PD Dr. M. Lochner et al.	3
3456	Advanced medicinal chemistry - from target to drug, Fri 10-12, DCBP PD Dr. J. Hunziker	1.5
3457	Nucleic acid analogues, DCBP, see CTS for schedule PD Dr. M. Hollenstein	1.5
3461	Forensic chemistry and toxicology, Thu 10-12, DCBP Dr. S. König	3
405520	Genomics of microorganisms, Tue 16-18, week 8-14, DCBP Prof. N. Polacek	1.5
407148	Introduction to Radiopharmaceutical Chemistry, Wed 11-13, DCBP Prof. A. Türlér et al.	3
415819	Cell and gene therapy, Wed 14-16, ICB PD Dr. A. Marti	1.5
430236	Bioenergetics – from archaeal sorcery to human diseases, Tue 10-12, week 1-7, DCBP Prof. Ch. von Ballmoos	1.5
468463	Enzymes in Catalysis, various weekdays, DCBP Prof. F. Paradisi	1.5
468464	Drug Delivery and Drug Targeting, Thu 15-17, week 1-7, DCBP Prof. P. Luciani, Dr. S. Aleandri	1.5
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
2806	Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al.	3
407144	Applied Optical Spectroscopy in Chemical Biology, Fri 13-15, week 1-7, DCBP Prof. R. Häner, Dr. O. Khorev	1.5
436479	Solving Current Challenges in Plant-Herbivore Interactions, block course, IPS Prof. M. Erb, Prof. C. Robert	5
464918	Numerical Analysis of High Dimensional Data: From Simple Statistics to Multifactorial Data Integration, Mon 15-17, IFIK PD Dr. Alban Ramette	3
476763	Pasteur to today: managing biorisks and the broad spectrum of biosafety and biosecurity, Wed 16-18, IPS Dr. K. Summermatter, Prof. D. Rentsch et al.	3

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.