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. Türler 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, Tue 13-15, week 1-7, DCBP Prof. P. Luciani, Dr. S. Aleandri**	**1.5**
469451	**mRNA translation and its regulation, Wed 10-12, ICB Prof. S. Leidel**	**2**
KSL Nr.	**Eligible for general module only**	**ECTS**
2806	Molecular Parasitology, Fri 11-13, ICB Prof. C. Faso et al.	3
9577	Lipid biology, a major research target of the post-genomic era, Tue 16-18, DCBP Prof. A. Stocker	1.5
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 16-16, 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 according to recommendations made by the prospective MSc supervisor.