

**MASTER IN CHEMICAL BIOLOGY
COURSE LIST 2021-2022**

Course code	Course title	Instructor	Institution	ECTS credits	Semester	Comments
A List - Obligatory courses						
14CB01	Current Topics in Chemical Biology and Biochemistry (compulsory)	NCCR ChemBio	UNIGE	8	F	Class: MON : 16:15 -18:00 Sc III, room 009 WED : 16:15 - 18:00 ScII, room 457
14CB02	Basic techniques in Chemical Biology (restricted)	NCCR ChemBio	EPFL/ UNIGE	6	F	programme established in september 2020 together with the student
14CB03	Tutorial (restricted)	NCCR ChemBio	EPFL/ UNIGE	5	F	programme established in september 2020 together with the student
14B063A	Microscopy and imaging course I (restricted)	Bauer	UNIGE	3	F	05.10.2021 to 15.10.2021 - Sc II, UNIGE - room 245 (4hrs per day) Prior registration required to christoph.bauer@unige.ch
CH-412	Frontiers in Chemical Biology	Aye/ Correia	EPFL	3	S	TBD
B List - Optional courses						
14B010	Principles of cellular and molecular biology	Stutz <i>et al.</i>	UNIGE	8	S	Check on: www.unige.ch/-/progours
14B072	Introduction to glycobiology	Lisacek	UNIGE	3	S	Check on: www.unige.ch/-/progours
14C001	Biochemistry and Biophysics of Membranes	Gonzalez Gaitan <i>et al</i>	UNIGE	8	S	TBD
14CB04	SPOC Chemical Biology	Loewith <i>et al.</i>	UNIGE	5	F	Online Small Private Online Course
14F006	Programming for bioinformatics I	Chopard	UNIGE	6	F	Check on: www.unige.ch/-/progours
14F001	Elements of bioinformatics	Bairoch <i>et al.</i>	UNIGE	5	F	Check on: www.unige.ch/-/progours
14C028	Bioorganic chemistry II	Matile	UNIGE	4	F	Check on: www.unige.ch/-/progours
BIO-315	Biomolecular Structure and Mechanics	Dal Peraro	EPFL	4	S	TBD
BIO-443	Fundamentals of Biophotonics	Radenovic	EPFL	3	S	TBD
BIO-447	Stem Cell Biology and Technology	Lütolf/ Radtke/ Suter	EPFL	3	F	Class: FRI, Room CM1105, 8:00-- 10:00; Exercises: FRI, 10 am- 11am
BIO-463	Genomics and Bioinformatics	Rougemont	EPFL	4	S	TBD
BIOENG-442	Biomaterials	Ghezzi/ Lutolf	EPFL	3	S	TBD
BIOENG-512	Introduction to lab methods: Bioactive compounds screening	Chambon/ Turcatti	EPFL	2	F	not given in 2021
CH-313	Chemical Biology	Aye / Correia	EPFL	2	F	Class: TUE, Room CHB331, 8 :00 - 10:00
CH-411	Cellular signalling	Hovius	EPFL	2	S	TBD
CH-413	Nanobiotechnology and biophysics	Fierz	EPFL	3	S	TBD
Ch-414	Pharmacological chemistry	Heinis	EPFL	2	S	TBD
CH-416	Chemical biology of cell imaging	Rivera Fuentes	EPFL	3	F	Class: MO, Room CE1105, 10:00 -13:00
CH-424	Supramolecular chemistry	Severin	EPFL	2	F	Class: WE, Room CHB331, 10:00 -12:00
CH-431	Physical and computational organic chemistry	Corminboeuf	EPFL	2	S	TBD
CH-432	Structure and reactivity	Cramer	EPFL	3	F	Class: TUE, Room BCH 4310, 12:00 - 14:00
CH-435	Catalytic asymmetric reactions in organic chemistry	Waser	EPFL	2	S	TBD
CH-438	Total synthesis of natural products	Zhu	EPFL	3	F	Class: TUE, Room CE 1100, 8:00- 10:00
CH-629(a)	Current Topics in Chemical Biology lecture series	Heinis / Fierz	EPFL	2	F/S	http://isic.epfl.ch/CBseminar
ChE-411	Principles and Applications of System Biology	Hatzimanikatis	EPFL	3	F	Class: THU, Room: CE5, 11:00-13:00; Exercise: THU, Room CE5, 14:00-15:00
MICRO-511	Image Processing I	Unser / Van De Ville	EPFL	3	F	Class: THU, Room: CO4, CO5, CO6, SG1, 10:00-13:00
MICRO-512	Image Processing II	Unser/ Van De Ville	EPFL	3	S	TBD
MICRO-560	BioMEMS	Renaud	EPFL	2	F	Class, TUE, Room CM013, 8:00 - 10:00
PHYS-301	Biophysics I	Manley	EPFL	3	S	TBD
PHYS-302	Biophysics II	Verkhovskiy	EPFL	4	F	not given
PHYS-441	Statistical Physics of Biomacromolecules	De Los Rios	EPFL	4	F	Class: WED, room BS 160 / Ex.: THU, room BS 260, 10:00 - 12:00
13CO03	Chimie Organique II: Principes de réactivité et chimie bioorganique I	Lacour/ Matile	UNIGE	6	F/S	Check on: www.unige.ch/-/progours
13B001	Biologie moléculaire de la cellule	Halazonitis <i>et al.</i>	UNIGE	9	F/S	Check on: www.unige.ch/-/progours
13CO08A	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	F	Check on: www.unige.ch/-/progours
13CO08P	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	S	Check on: www.unige.ch/-/progours