

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	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	NCCR ChemBio	EPFL/ UNIGE	6	F	programme established in september 2020 together with the student
14CB03	Tutorial	NCCR ChemBio	EPFL/ UNIGE	5	F	programme established in september 2020 together with the student
14B063A	Microscopy and imaging course I	Bauer	UNIGE	3	F	04.10.2021 to 14.10.2021 - Sc II, UNIGE - room 245 (4hrs per day) Prior registration required to christoph.bauer@unige.ch
CH-412	Chemical Biology	Aye/ Correia	EPFL	3	S	TBD
B List - Optional courses						
CH-311	Macromolecular structure and interactions	Fierz	EPFL	2	F	Class: WED, room CH B3 30, 10:00 - 12:00
CH-312	Dynamics of biomolecular processes	Fierz	EPFL	2	S	TBD
CH-313	Chemical biology	Aye	EPFL	2	F	Class: TUE, room CH B3 31, 08:15 - 10:00
CH-317	Drug discovery and development	Heinis	EPFL	2	S	TBD
CH-319	Experimental biochemistry and biophysics	Hovius	EPFL	4	S	TBD
CH-332	Medicinal chemistry	Aye	EPFL	2	S	TBD
CH-411	Cellular signalling	Hovius	EPFL	2	S	TBD
14B010	Principles of cellular and molecular biology	Stutz <i>et al.</i>	UNIGE	8	S	Check on: www.unige.ch/-/progscours
14B072	Introduction to glycobiology	Lisacek	UNIGE	3	S	Check on: www.unige.ch/-/progscours
14CO01	Biochemistry and Biophysics of Membranes	Gonzalez Gaitan <i>et al</i>	UNIGE	8	S	MO 14:15-17:00 + WE 14:15-17:00 Sciences II, 3-352
14CB01	Hot topics and breakthroughs in biochemistry	Roux <i>et al</i>	UNIGE	6	F/S	Check on: www.unige.ch/-/progscours
14CB04	Chemical Biology	Loewith <i>et al.</i>	UNIGE	5	F	SPOC online Registration : 12/09/2022 to 19/09/2022 > https://bit.ly/3w4skay
14F006	Programming for bioinformatics I	Chopard	UNIGE	6	F	Check on: www.unige.ch/-/progscours
14F001	Elements of bioinformatics	Bairoch <i>et al.</i>	UNIGE	5	F	Check on: www.unige.ch/-/progscours
14CO28	Bioorganic chemistry II	Matile	UNIGE	4	F	Check on: www.unige.ch/-/progscours
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, 8:15- 10:00; Exercices: FRI, Room CM1105, 10:15 - 11:00
BIO-463	Genomics and Bioinformatics	Rougemont	EPFL	4	S	TBD
BIOENG-430	Selected topics in life sciences	Lashuel	EPFL	3	S	Class: TUE, Room CM 013, 13:15 -15:00
BIOENG-442	Biomaterials	Ghezzi/ Lutolf	EPFL	3	S	TBD
CH-311	Macromolecular structure and interactions	Fierz	EPFL	2	F	TBD
CH-312	Dynamics of biomolecular processes	Fierz	EPFL	2	S	TBD
CH-313	Chemical Biology	Aye / Correia	EPFL	2	F	Class: TUE, Room CHB331, 8:15 - 10:00
CH-317	Drug discovery and development	Heinis	EPFL	2	S	TBD
CH-319	Experimental biochemistry and biophysics	Hovius	EPFL	4	S	TBD
CH-332	Medicinal chemistry	Aye	EPFL	2	S	TBD
CH-413	Nanobiotechnology and biophysics	Fierz	EPFL	3	S	TBD
CH-414	Pharmacological chemistry	Heinis	EPFL	2	S	TBD
CH-419	Protein mass spectrometry and proteomics	Dayon	EPFL	2	S	TBD
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, 12:15 - 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
CH-634	Chemical probes for imaging in Biology	Johnsson	EPFL	1	S	TBD
CHE-411	Principles and Applications of System Biology	Hatzimanikatis	EPFL	3	F	Class: THU, Room: CE1 5, 11:15-13:00; Exercise: THU, Room CE1 5, 14:15-15:00
MICRO-511	Image Processing I	Unser / Van De Ville	EPFL	3	F	Class: THU, Rooms: CO4, CO2, 10:15-13:00
MICRO-512	Image Processing II	Unser/ Van De Ville	EPFL	3	S	TBD
PHYS-301	Physics of the cell	Manley	EPFL	3	S	TBD
PHYS-441	Statistical Physics of Biomacromolecules	De Los Rios	EPFL	4	F	Class: WED, room BS 160, 8:15 - 10:00 / Ex.: THU, room BS 260, 10:15 - 12:00
13CO03	Chimie Organique II	Lacour/ Matile	UNIGE	6	F/S	Check on: www.unige.ch/-/progscours
13B001	Biologie moléculaire de la cellule	Halazonitis <i>et al.</i>	UNIGE	9	F/S	Check on: www.unige.ch/-/progscours
13CO08A	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	F	Check on: www.unige.ch/-/progscours
13CO08P	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	S	Check on: www.unige.ch/-/progscours