

**MASTER IN CHEMICAL BIOLOGY  
COURSE LIST 2019-2020**

Course code	Course title	Instructor	Institution	ECTS credits	Semester	Comments
<b>A List - Obligatory courses</b>						
14CB01	<b>Current Topics in Chemical Biology and Biochemistry (compulsory)</b>	NCCR ChemBio	UNIGE	8	F	Class: MON : 13:15 -15:00 Sciences II, room 3-352   WED : 13:15 - 15:00 SCIENCES II, room 174
14CB02	<b>Basic techniques in Chemical Biology (restricted)</b>	NCCR ChemBio	EPFL/ UNIGE	6	F	programme established in september 2019 and customized to each student needs
14CB03	<b>Tutorial (restricted)</b>	NCCR ChemBio	EPFL/ UNIGE	5	F	programme established in september 2019 and customized to each student needs
14B063A	<b>Microscopy and imaging course I (restricted)</b>	Bauer	UNIGE	3	F	01.10.2019 to 11.10.2019 - SCIENCES II, UNIGE - room 245 (4hrs per day) Prior registration required to christoph.bauer@unige.ch
CH-412	<b>Frontiers in Chemical Biology</b>	Aye/ Ferreira de Sousa/ Correia	EPFL	3	S	TBD
<b>B List - Optional courses</b>						
14B010	Principles of cellular and molecular biology	Stutz <i>et al.</i>	UNIGE	8	S	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
14C001	Biochemistry and Biophysics of Membranes	Gonzalez Gaitan <i>et al</i>	UNIGE	8	S	TBD
14F006	Programming for bioinformatics I	Chopard	UNIGE	6	F	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
14F001	Elements of bioinformatics	Bairoch <i>et al.</i>	UNIGE	5	F	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
14C028	Bioorganic chemistry II	Matile	UNIGE	4	F	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
14C027	Statistical thermodynamics	Sugihara & Lawson Daku	UNIGE	4	S	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
BIO-315	Biomolecular Structure and Mechanics	Dal Peraro	EPFL	4	S	TBD
BIO-463	Genomics and Bioinformatics	Rougemont	EPFL	4	S	TBD
PHYS-301	Biophysics I	Manley	EPFL	3	S	TBD
PHYS-302	Biophysics II	Verkhovskiy	EPFL	4	F	Class: TUE 13h15-15h, room GR A3 30, Exercises: TUE 15h15-17h room GR A3 30
PHYS-441	Statistical Physics of Biomacromolecules	De Los Rios	EPFL	4	F	Class: TUE 10h15-12h, room BC 04, Exercises: THU 10h15-12h, room GC B1 10
BIOENG-442	Biomaterials	Ghezzi/ Lutolf	EPFL	3	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 8h15-10h, room CE 1 2, Exercises: FRI 10h15-11h room CM 1 105
MICRO-511	Image Processing I	Unser/ Van De Ville	EPFL	3	F	Class: THU 10h15-13h, rooms CO 4, CM 1 1, CM 1 103, CM 1 110, CO 5, CO 6
MICRO-512	Image Processing II	Unser/ Van De Ville	EPFL	3	S	TBD
MICRO-560	BioMEMS	Renaud	EPFL	2	F	Class TUE 8h15-10h, room CM 0 13
CH-313	Chemical Biology	Aye	EPFL	2	F	Class TUE 10h-12h, room CHB331
CH-413	Nanobiotechnology and biophysics	Fierz	EPFL	3	S	TBD
CH-432	Structure and reactivity	Cramer	EPFL	3	F	Class: TUE 8h15-10h, room BSP 234
CH-438	Total synthesis of natural products	Zhu	EPFL	3	F	Class: WED 8h15-10h, room CH B3 31
CH-411	Cellular signalling	Hovius	EPFL	2	S	TBD
ChE-411	Principles and Applications of System Biology	Hatzimanikatis	EPFL	3	F	Class: THU 11h15-13h, room CE 15 and Exercises: THU 14h15-15h room CE 1 5
CH-415	Chemistry of small biological molecules	Goun	EPFL	2	F	Class: TUE 16h15-18h room CH B3 31
CH-435	Catalytic asymmetric reactions in organic chemistry	Waser	EPFL	2	S	TBD
CH-411	Cellular signalling	Hovius	EPFL	2	S	TBD
Ch-414	Pharmacological chemistry	Heinis	EPFL	2	S	TBD
CH-416	Chemical biology of cell imaging	Rivera Fuentes	EPFL	3	F	Class: MON10h15 - 13h, CE 1 105
CH-431	Physical and computational organic chemistry	Corninboeuf	EPFL	2	S	TBD
BIOENG-512	Introduction to lab methods: Bioactive compounds screening	Turcatti/ Chambon	EPFL	2	F	November 18 - 22, 2019. Contact directly <a href="mailto:marc.chambon@epfl.ch">marc.chambon@epfl.ch</a>
CH-629(a)	Current Topics in Chemical Biology lecture series	Heinis / Fierz	EPFL	2	F/S	There are no scheduled sessions during the selected week or period.
13C003	Chimie Organique II: Principes de réactivité et chimie bioorganique I	Lacour/ Matile	UNIGE	6	F/S	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
13B001	Biologie moléculaire de la cellule	Halazonitis <i>et al.</i>	UNIGE	9	F/S	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
13C008A	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	F	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>
13C008P	Biochimie III	Soldati <i>et al.</i>	UNIGE	3	S	Check on: <a href="http://www.unige.ch/-/progcourses">www.unige.ch/-/progcourses</a>