4EU+ Letter of Attendance Supplement
4EU+ Course description/syllabus

	Categories	Please fill in	Explanatory Remarks
1	**Title:**	Chemical Biology (syllabus)	
2	**Type of educational activity/teaching format:**	Online course (SPOC)	Course, online course, workshop, summer school etc.
3	**Responsible and offering lecturer:**	Prof. Robbie Loewith (robbie.loewith@unige.ch) Contact person: Mrs Phaedra Simitsek (phaedra.simitsek@unige.ch)	Name, surname, position, affiliation, contact information
4	**Other lecturers if involved:**	Prof. Yimon Aye (EPFL) Pablo Rivera-Fuentes (UHZ/EPFL) Prof. Nicolas Winssinger (UNIGE)	Name, surname, position, affiliation
5	**Start date - end date and duration:**	Dates: 19.09.2022 – 23.12.2022 6hours/week (14 weeks)	Indicate the number of teaching hours for participants eg 30h or 15h
6	**Short description of the content of the course:**	This course is a pathway to understanding interdisciplinary research and modern scientific practices in chemical biology, which straddles a nexus between chemistry, biology, and physics. Here, we deconstruct chemical biology into its core components, and repackage the material. In the process we build up for each student a practical and theoretical knowledge bank that will set these students on their way to understanding and designing their own chemical biology experiments.	4-5 sentences
7	**Workload / Credits:**	150 hours / 6 ECTS	Identification of the overall workload and the number of required ECTS for this course
8	**Target group-level:**	BA3 and MA, students with scientific background in Chemistry, Biology, Physics, and/or equivalent	BA, MA and/or PhD students
9	**Language of instruction:**	English	

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10	**Learning content:**	The course will be key to acquire theoretical and practical knowledge about in the field of chemical biology. It offers: - interdisciplinary content in the fields of chemistry, biology and physics - laboratory videos presenting diverse array of modern chemical biology techniques - numerous quizzes and graded problems - possibility to draft a research proposal and design one's own experiments	Professional, methodological, practical and interdisciplinary content *Examples: The course conveys…* *The lecture covers….*
11	**Learning objectives:**	At the end of the course, the students will be able to: - understand modern chemical biology techniques, methodology and concepts from an interdisciplinary perspective - understand and design their own chemical biology experiments	Subject-related, methodological, interdisciplinary skills, key qualifications, learning and qualification objectives. Wording in complete clauses using concrete verbs for observable (testable) behaviours. Learning objectives describe tasks (what needs to be done and which steps are relevant to meet a certain requirement (why is it important?). *Example:* *At the end of the course, the students will be able to ...*
12	**Assessment methods and criteria:**	Continuous assessment: fortnightly quizzes; fortnightly exercises; written research proposal that seeks to deploy chemical biology methods	
13	**4EU+ Flagship:**	Flagship 3: Data - Models -Transformations	Please indicate under which Flagship the activity falls
14	**4EU+ Transversal skills/shared competencies:**	Critical thinking, entrepreneurship, data literacy	Please indicate which 4EU+ transversal skill the activity supports and how (4-5

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			sentences): multilingualism, data literacy, critical thinking, entrepreneurship, societal engagement