

Studies Plan

CGC Orientation 2025-26

Biological and biophysical chemistry

Courses				Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	C E L T P I	C E L T P I			
E	CH-313	CGC	Jeschek	2h		Win	Written	2
E	CH-317	CGC	Heinis		2h	Sum	Written	2
E	CH-312	CGC	Fierz		2h	Sum	Written	2
E	CH-319	CGC	Hovius		6h	Sum	During the semester	4
E	CH-311	CGC	Fierz	2h		Win	Written	2

Block 4

Courses				Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	C E L T P I	C E L T P I			
E	CH-310	CGC	Feldmann	2h 1h		Win	Written	3
E	CH-349	CGC	Emsley		4h	Sum	During the semester	4
E	CH-315	CGC	Smit	4h		Win	During the semester	3
E	CH-234	CGC	Cramer	2h		Win	Written	2
F	CH-220	CGC	Cramer Dyson	8h		Win	During the semester	4
E	CH-314	CGC	Bostedt Emsley Miéville	3h 1h		Win	Written	4

Computational chemistry

Courses				Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	C E L T P I	C E L T P I			
F	CH-352	CGC	Patiny		2h 1h	Sum	During the semester	3
E	CH-353	CGC	Röthlisberger	2h 2h		Win	During the semester	4
E	CH-351	CGC	Röthlisberger		1h 1h	Sum	During the semester	2

F	Project of Computational chemistry			4h	Sum	During the semester	3
	CH-359	CGC	Corminboeuf Röthlisberger Schwaller Smit Vanicek				

Free module

Courses				Bachelor 5					Bachelor 6					Exam Session	Exam	Credit		
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I			
E	Algebra																	
	MATH-310	MA	Lachowska	2h	2h											Win	Written	4
F	Analysis III																	
	MATH-203(b)	MA	Strütt	2h	2h											Win	Written	4
E	Analysis IV																	
	MATH-207(d)	MA	Braun							2h	2h					Sum	Written	4
E	Causal thinking																	
	MATH-352	MA	Stensrud	2h	2h											Win	Written	5
E	Discrete optimization																	
	MATH-261	MA	Eisenbrand							2h	2h					Sum	Written	5
E	Introduction to optimization and operations research																	
	MATH-265	GC	Bierlaire	2h	2h											Win	Written	4
E	Numerical analysis																	
	MATH-251(b)	MA	Herbst							2h	2h					Sum	Written	4

Module 4 - Chimie physique

Courses				Bachelor 5					Bachelor 6					Exam Session	Exam	Credit	
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I		
	Advanced nuclear magnetic resonance																
E	CH-401	CGC	Emsley							1h	1h				Sum	Written	3
	Electrochemistry of solutions																
F	CH-243	CGC	Roussel	2h	1h										Win	Written	3
	Methods in spectroscopy and dynamics																
E	CH-340	CGC	Osterwalder							2h	1h				Sum	During the semester	3
	Numerical methods																
E	ChE-312	CGC	Miskovic Sivula							2h	1h				Sum	During the semester	3

Synthetic chemistry

Courses				Bachelor 5					Bachelor 6					Exam Session	Exam	Credit	
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I		
Asymmetric synthesis and retrosynthesis																	
E	CH-335	CGC	Gerber Nicolai							3h	1h				Sum	Oral	4
Preparative chemistry II																	
F	CH-329	CGC	Hu Severin								8h				Sum	During the semester	8