

# CHEMISTRY-CHIMICA

(Classe LM-54)

## Piano di Studi Coorte A.A. 2020/21

### Primo Anno

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
Advanced Physical Chemistry I Course	CHIM/02	6	48	I	B
Advanced Inorganic Chemistry I Course	CHIM/03	6	48	I	B
Advanced Organic Chemistry I Course	CHIM/06	6	48Lect	I	B
Advanced Analytical Chemistry	CHIM/01	6	48	I	B
Course 1*		6	48	I	C
Advanced Biological Chemistry	BIO/10	6	48	II	B
Advanced Physical Chemistry II Course	CHIM/02	6	48	II	B
Advanced Inorganic Chemistry II Course	CHIM/03	6	48	II	B
Advanced Organic Chemistry II Course	CHIM/06	6 (4Lect+2Lab)	32Lect 32Lab	II	B
Course 2*		6	48	II	C
Totale CFU dell'anno		<b>60</b>			

\*Courses 1, 2 to be selected among the following course sets

### Chemistry for life

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
Retrosynthesis	CHIM/06	6	48	I	C
Surface chemistry and nanomaterials	CHIM/02	6	48	I	C
Protein Crystallography	CHIM/03	6	48	II	C
Elements of Computational Organic Spectroscopy	CHIM/06	6	48	II	C
Smart Materials and Nanocarriers	CHIM/03	6	48	II	C

### Chemistry for a sustainable development

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
Nutraceutical and Food Chemistry	CHIM/02	6	48	II	C
Environmental Spectroscopy	CHIM/01	6	48	II	C
Industrial biotechnology	CHIM/02	6	48	II	C

**Secondo Anno**

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
Student's choice		6		I	D
Student's choice		6		I	D
Course 3*		6		I	C
Health and Safety in the Working Environment		1	16	I	F
Internship in a Company**/in a research lab		11		I	S
Experimental project for final dissertation		30		II	E
<b>Totale CFU dell'anno</b>		<b>60</b>			

\*Course 3 to be selected among the following course sets

**Chemistry for life**

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
NMR applications for Food Chemistry	CHIM/03	6	48	I	C
Informatics for chemistry and biology	BIO/10	6	48	I	C

**Chemistry for a sustainable development**

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF
Sustainable and efficient energy	CHIM/02	6	48	I	C
Green Chemistry and Catalysis	CHIM/06	6	48	I	C
Remediation of contaminated sites	CHIM/02	6	48	I	C

\*\* At the moment the following Companies are available for the SCDC internship:

GSK Vaccines Italia (Siena)

Nuova Solmine s.p.a (Scarlino-Grosseto)

Biochemie Lab. (Florence)

Colorobbia s.p.a (Empoli)