

🕒 Notre offre de formation évolue ! Les programmes pour l'année 2027-2028 sont en cours de mise à jour et peuvent évoluer jusqu'au 28 novembre 2026. Les programmes de l'année universitaire 2026-2027 restent consultables en cas de besoin.

SCIENCES, TECHNOLOGIES, SANTÉ, INGÉNIERIE

Parcours Chemistry for life sciences 2e année

Master Chimie



Niveau d'étude
visé
Bac +5



ECTS
60 crédits



Durée
1 an



Composante
UFR de Chimie
et de biologie



Langue(s)
d'enseignement
Anglais

Présentation

In the 2nd year in Chemistry for life sciences, classes will focus on chemistry at the interface with biology and its applications, with, in particular, courses on bioorganic and bioinorganic chemistry. The teaching units in bioorganic chemistry focuses on the synthesis, engineering and modification of biomolecules (proteins, nucleic acids and sugars) in order to obtain therapeutic, diagnostic or targeting tools. As for the UE in Bioinorganic chemistry, its aim is to understand the role of metals in living systems in order to best imitate the way in which they work and anticipate how they interact with biomolecules. A course of biology specific to the 2nd year's master CLS program raises students' awareness about the different innovative biological targets which have significant therapeutic and diagnostic interest. This cross-disciplinary specialization will broaden the students scientific culture at the chemistry-biology interface and enable a better understanding of the biological mechanisms and pathways that can be targeted. In parallel, students must also take a course of either biology or chemistry, within those proposed among the other programs of the chemistry or biology degree, to personalize their own formation.

This program provides students with the skills and knowledge of research issues in the chemistry for life sciences field, in

order to be able to successfully carry out research projects at this interface (by continuing in doctoral education).

Formation internationale : Formation tournée vers l'international

Dimension internationale

Students have the possibility to follow courses all taught in English in semester 9 (30 ECTS) as well as in the 1st year (60 ECTS). Finally, the internship at the end of the 2nd year is an opportunity for students to be immersed for six months in a research academic laboratory, in France or abroad, and to play an active role in a research project.

Organisation

Admission

Conditions d'admission

- Second year master's degree : to be eligible to apply you should have completed, or be enrolled in a first year of a master program in Science, and totalize 60 ETCS

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Continuous education : Students fall under the continuous education scheme if they:

- go back to studies after an interruption of two years or more
- did follow a continuous education program during one of the two previous years

are employees, independent entrepreneurs or registered unemployed seekers

In case you do not have the required diploma, you might initiate the accreditation of  personal and professional experience (VAPP).

- Researcher in academic or industrial laboratories (following a doctoral degree)

Métiers visés

- Ingénieur d'études, cadre de laboratoire (en sortie de master)
- Enseignant-chercheur du supérieur
- Chercheur dans les laboratoires académiques ou industriels (après un doctorat)

Candidature

Recruitment campaign : on e-candidat from **2th of march** to **27th of march 2026**

You want to apply ? Please be aware that the procedure differs depending on the diploma you want to take, the diploma you have already obtained and, for foreign students, your place of residence. Let us be your guide – simply follow this  link

Droits de scolarité

UGA registration fees 2025 / 2026 : 254 € + 105 € CVEC

Et après

Poursuite d'études

After the 2nd year's master in Chemistry for life sciences :

- Continue with a PhD
- Additional training in management, sales or quality : The 2nd year's master in Chemistry for life sciences leads to the following careers : engineer, laboratory manager (upon completion of the master's degree)
- Higher education research professor

Infos pratiques

Contacts

Responsable pédagogique

Nathalie Berthet

✉ nathalie.berthet@univ-grenoble-alpes.fr

Contact administratif

✉ ufrchimiebiologie-master-chimie@univ-grenoble-alpes.fr

Lieu(x) ville

📍 Grenoble

Campus

🏠 Grenoble - Domaine universitaire

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Programme

Master 2e année



	Nature	CM	TD	TP	Crédits
UE Synthesis of Biomolecules	UE				3 crédits
UE Chemobiology	UE				6 crédits
UE Bionorganic chemistry	UE	26h	14h		6 crédits
UE Outils et méthodes pour l'ingénieur	UE	38h	21h		3 crédits
UE Outils de l'entreprise	UE	36h			3 crédits
UE Heterocyclic chemistry	UE	27h	3h		3 crédits
UE Green chemistry	UE	19,5h			3 crédits
UE Chimie médicinale	UE	22,5h	4,5h		3 crédits

Semestre 9 R

	Nature	CM	TD	TP	Crédits
UE Bio-targeted chemistry 1	UE	20h			3 crédits
UE Bionorganic chemistry	UE	26h	14h		6 crédits
UE Topics in Biological Chemistry	UE	15h	5h		3 crédits
UE Bio-targeted chemistry 2	UE	20h			3 crédits
UE Bibliography	UE		15h		3 crédits
UE Heterocyclic chemistry	UE	27h	3h		3 crédits
UE Molecular modelling	UE	12h	9h		3 crédits
UE Green chemistry	UE	36h			3 crédits
UE High throughput Biology	UE	36h			6 crédits
UE Structure determination of biological macromolecules	UE	19h	12h	10h	6 crédits
UE Chimie médicinale	UE	22,5h	4,5h		3 crédits
UE Outils et méthodes pour l'ingénieur	UE	19h	21h		3 crédits
UE Entrepreneurship and Sciences	UE	14h	10h		3 crédits

Semestre 10 P

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	Nature	CM	TD	TP	Crédits
UE Stage	UE				24 crédits
UE English	UE		28h		3 crédits
UE ETC	UE				3 crédits
					
	Nature	CM	TD	TP	Crédits
UE Stage	UE				24 crédits
UE English	UE		28h		3 crédits
UE ETC	UE				3 crédits