

Master in Chemistry

Organic synthesis 2nd year

Presentation

Students are gradually educated in organic synthesis of molecules, from the first year of the master's degree, learning the fundamental principles of organic chemistry, to the second year of the master's degree in Organic synthesis, during which students will learn retrosynthesis of complex molecules, the latest methodological developments in asymmetric organic synthesis, as well as the real implementation of syntheses, analysis, identification and characterization of the obtained products.

This program of the master's degree in synthetic Chemistry aims at training research and development executives for laboratories and industries involved in fine chemicals (for example flavourings and fragrances) and the pharmaceutical and agrochemical industries.

This 2nd year's program aims at educating in synthetic chemistry, by putting emphasis both on the experimental aspect of this scientific field (a lot of experimental training and internship in academic or industrial laboratories) and on theoretical aspects with teaching based on the most up-to-date methods and concepts, coming from research in this field.

Registration and scholarships

Access conditions

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

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#)

[skin.odf-uga:SKIN_ODF_CONTENT_PROGRAM_CANDIDATURE_LABEL](#)

Opening period : from 4th of march to 27th of march 2024 included with e-candidat

You want to apply and sign up for a course master ? 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](#)

Expenses

UGA Registration fees: 243€ + 100€ CVEC

Further studies

Generally, students who want to (in particular those who have chosen the research option of the Organic synthesis program) can continue their studies with PhD study in order to become doctors in organic chemistry. Students who do not want to do a PhD (professional option of the Organic synthesis program) can either

directly work or can apply for an additional master's degree, often in a school of management or business administration.

Practicals informations :

- > Component : UFR Chimie-Biologie
- > level : Bacalaureate +5
- > Duration : 1 year
- > Course type : Initial and Continuing Education
- > Location(s) : Grenoble - University campus

Contacts

Program director

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Administrative contact

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Program

Master 2nd year

Semester 9 P

UE Asymmetric synthesis	6 ECTS
UE Synthetic strategies	6 ECTS
UE Heterocyclic chemistry	3 ECTS
UE Chemical development	3 ECTS
UE Supervised practical work	6 ECTS
UE Green chemistry	3 ECTS
UE Chimie médicinale et Médicaments	3 ECTS
UE Outils de l'entreprise	3 ECTS
1 option(s) to choose from 1	
UE Outils pour l'ingénieur	3 ECTS
UE Entrepreneurship and Sciences	3 ECTS

Semester 9 R

UE Asymmetric synthesis	6 ECTS
UE Synthetic strategies	6 ECTS
UE Heterocyclic chemistry	3 ECTS
UE Green chemistry	3 ECTS

2 option(s) to choose from 2

UE Molecular modelling	3 ECTS
UE Chimie médicinale et Médicaments	3 ECTS
UE Chemical development	3 ECTS
UE Bio-targeted chemistry 1	3 ECTS
1 option(s) to choose from 1	
UE Outils pour l'ingénieur	3 ECTS
UE Entrepreneurship and Sciences	3 ECTS

Semester 10 P

UE Internship	27 ECTS
2 Option	
UE English	3 ECTS
UE ETC	3 ECTS

Semester 10 R

UE Internship	27 ECTS
UE Internship 24 ects	24 ECTS

**UE Ecole d'été - Graduate school EUR
CBS** 3 ECTS

1 option(s) to choose from 1

UE English 3 ECTS

UE ETC 3 ECTS
