

Master in Biology

Portal Molecular and cellular biology 1st year

Presentation

The first year of the master's degree, *i.e.* the master 1 program named Molecular and Cellular Biology (MCB) opens to the 7 following master 2 programs :

- the "Immunology, Microbiology, Infectious Diseases" (IMID) program;
- the "Integrative Structural Biology" (ISB) program;
- the "Neurobiology- Neurosciences" (NN) program;
- the "Physiology, Epigenetics, Development, Cell Differentiation" (PhEDD) program;
- the "Biologie et Techniques de commercialisation" (BioTechCo) program (taught in French) ;
- the "Lab Science Trading" (LST) program;
- the "Pro2Bio" program (taught partly in French and partly in English).

Registration and scholarships

First year master's degree: If you have completed a Bachelor's degree in Science or are enrolled in the final semester of a Bachelor's programme in Science, you are eligible to apply for the master's degree in Biology.

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 \(VAPP\)](#).

3 application campaigns are organized for the master 2 Lab Science Trading

- Campaign 1: Campaign opening on e-candidate: From 04 to 22 March 2019 included
- Campaign 2: Open campaign on e-candidate: From 01 to 19 April 2019 included
- Campaign 3 : Open campaign on e-candidate: From April 29 to May 17, 2019 included

Candidates from a foreign University, please see the admission requirements on the following website : <http://https://www.univ-grenoble-alpes.fr/courses/applications-and-enrollment/>

An interview will be proposed to the applicants to the first or second year of the master's degree in order to test their motivation.

Practicals informations :

- > **School** : UFR Chimie-Biologie
- > **Duration** : 1 year
- > **Course type** : Initial and Continuing Education
- > **Location(s)** : Grenoble - University campus
- > **Contacts** :

Programme director

Claire Vourch
Claire.Vourch@univ-grenoble-alpes.fr

Administrative contact

Chemistry-Biology Course Services
ufrchimiebiologie-formation@univ-grenoble-alpes.fr

Program

Master 1st year

Semester 7

UE Experimental approach in biology	18 ECTS	153h
2 option (s) to choose from 3		
UE Cell compartmentalization and implications in pathology	6 ECTS	49,5h
UE Molecular genetics and epigenetics	6 ECTS	46,5h
UE Chemistry and cellular biochemistry	6 ECTS	50h

UE Biostatistics, bioinformatics and modeling (part I)	6 ECTS	49,5h
UE Biotechnology, products and processes	6 ECTS	50h
UE Functional anatomy of the central nervous system	6 ECTS	40h
1 option (s) to choose from 2		
UE English course	3 ECTS	24h
UE Transverse teaching of choice	3 ECTS	

Semester 8

UE Laboratory internship (part I)	6 ECTS	
UE Communication tools	3 ECTS	24h
3 option (s) to choose from 16		
UE Development and differentiation	6 ECTS	50h
UE Metabolic physiology and pathophysiology	6 ECTS	50h
UE How to become a cancer cell	6 ECTS	50h
UE Molecular and cellular imaging (microscopy)	6 ECTS	50h
UE Molecular bases of the normal and pathological memory	6 ECTS	57h
UE Behaviors of biological macromolecules	6 ECTS	50h
UE Neurological bases of the behaviors	6 ECTS	46h
UE Drug action and drug design	6 ECTS	50h
UE Engineering of macromolecules	6 ECTS	50h
UE Immunobiology	6 ECTS	50h
UE Metals in biology	6 ECTS	50h
UE Microbiology	6 ECTS	41h
UE Infectious diseases (part I)	6 ECTS	49,5h