

## Why enroll ?

The University of Napoli Federico II boasts 795 years of excellence in higher education. The teachers of Federico II have a high scientific production - 76 citations / article (QS Top Universities). 61928 students in 2019.

Federico II is equipped with: Green University Campus, PhD Schools, post-graduate schools, EU Erasmus Program, University Language Center, SINAPSI University Center for the active and participatory integration of students. Education, as well as , scientific and technological research in collaboration with the Botanical Garden of Naples. Collaborations with prestigious research centers such as TIGEM and CNR.

The didactic, linguistic, and scientific laboratories provide the necessary support for all the courses of biological and natural sciences. Students have the opportunity to achieve an adequate development of their intellectual and professional skills.

### Master's Degree Coordinator

Prof. Simonetta Giordano  
giordano@unina.it



#### Useful links

##### **Polytechnic and Basic Science School (SPSB)**

[www.scuolapsb.unina.it](http://www.scuolapsb.unina.it)

##### **Department of Biology**

<http://www.dipartimentodibiologia.unina.it>

##### **Student Administration Office**

Complesso Universitario di Monte S. Angelo Via  
Cinthia – 80126 Napoli  
e-mail: [segrmmff@unina.it](mailto:segrmmff@unina.it)

##### **Opening time**

Monday-Friday 9:00 - 12:00

Tuesday-Thursday 14:30 - 16:30

Telephone number 081-2531111 / 081-2537508  
081-676550

For further information please follow the link:

<http://www.unina.it/-/769598-segreteria-studenti-area-didattica-scienze-mm-ff-nn>

##### **Career guidance contacts**

Dr. Patrizia Contursi

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neapōlis



May 2020

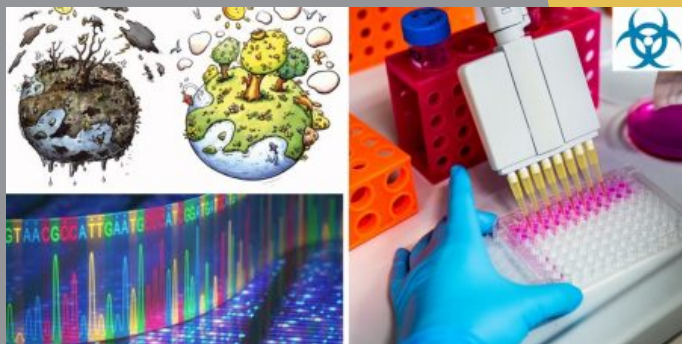


UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II  
SCUOLA POLITECNICA E DELLE SCIENZE DI BASE

COLLEGIO  
DEGLI STUDI DI  
**SCIENZE**

MASTER'S DEGREE

**BIOLOGICAL SCIENCES**



## EDUCATIONAL OBJECTIVES

The Master's Degree Program in Biological Sciences (Degree class: LM-6), aims to train Biologists who wish to extend and strengthen the knowledge acquired within the previous three-year degree in the fields of Environmental Biology, Biosafety and Molecular Diagnostics. Accordingly, the Master's Degree is divided into three curricula. The goal is to train professionals who must have, in addition to a solid preparation in basic biology and its applications, also adequate scientific and operational preparation in cutting-edge sectors.



## ACCESS REQUIREMENTS

Students with a degree in General and Applied Biology or in Biological Sciences (Class L -13 - ex Class 12 Biological Sciences) of the University of Napoli Federico II or a degree of the same Class L-13 or of other classes, obtained at the University Federico II, or other Universities, are admitted to the Master's Degree in BIOLOGICAL SCIENCES after evaluation of the CCD which will establish a special committee to assess whether students possess the curricular requirements and a suitable cultural background. If the Commission deems the students preparation inadequate, knowledge and skills will be provided to the students for the enrollment in the Master's Degree.

## EDUCATIONAL PATH

### Environmental biology

	CFU
<b>First year</b>	
Morphological and ecophysiological adaptations of plants	10
Wildlife biomonitoring and population genetics Geobotanic, monitoring and restoration	10
Cell markers and animal morphofunctional adaptations	10
Exam of your choice	6
English Laboratory	4
Thesis activity	13

### Second year

Environmental alterations and ecotoxicology	10
Bioinformatics and biological data mining	5
Hygiene of the territory and environment and environmental metagenomics	10
Esame a scelta	6
Attività di Tesi	26

### Biosecurity

<b>First year</b>	
C.I. environmental protection and laboratory	10
Pathology and general and molecular pathology and laboratory	7
Applied Microbiology and Mutagenesis and Laboratory	10
Hygiene and risk management and laboratory	7
Exam of your choice	6
English Laboratory	4
Thesis activity	10

### Second year

C.I. Advanced biochemistry and safety in molecular methodologies and laboratory	10
C.I. Physical risk and applied physical chemical methodologies and laboratory	10
C.I. Biological risk and environmental indicators and laboratory	10
Exam of your choice	6
Thesis activity	30

### Molecular Diagnostics

<b>1st year</b>	
Signal transduction physiopathology and laboratory	7
Molecular genetics and cytogenetics and laboratory	7
Molecular and Applied Microbiology and Laboratory	10
General and comparative hematology and laboratory	7
Exam of your choice	6
English Laboratory	4
Thesis activity	14

### 2nd year

Pathology and general and molecular physiopathology and Lab	7
Molecular Physio-endocrinology and Laboratory	7
Clinical Biochemistry and Clinical Molecular Biology and Lab.	10
Epidemiological methodologies and parasitology and Lab.	10
Exam of your choice	10
Thesis Activity	6
	25

## JOB OPPORTUNITIES

The areas of work are: Research, Environment (monitoring of biotic components, environmental pollution, protection of natural capital, environmental quality, environmental conservation, biosafety, health prevention), Health (clinical investigations, molecular diagnostics, nutrition, genetic analysis, bioinformatic analysis), the production chain in the field of food production (control of industrial processes, quality, health, safety, purification, accreditations, certifications), the dissemination and scientific information, the free profession and teaching. Work places are represented by public bodies (School, University, Hospitals, CNR, ENEA, ARPA, etc.) and private bodies (industries, laboratories). The areas of work are released from the curriculum, which offers the opportunity to follow their own inclinations study.

## POST-LAUREAM OPPORTUNITIES

The highly qualified scientific preparation of the Master's Degree in Biological Sciences will allow the access of graduates to numerous PhD courses at national and international level and to several Specialization Schools.

## LOCATION

The didactic and scientific activities location is at Monte S. Angelo (MSA) University Campus, in via Cinthia, Naples

## CONNECTIONS

**By car:** exit of the Fuorigrotta ring road.

**Rail lines:** Metro Line 2 (Campi Flegrei station); Circumflegrea (Mostra station).

**Bus lines:** Piazzale Tecchio (Fuorigrotta) - MSA: 615 -180 -R6; Piazza Leonardo (Vomero) - MSA: C33.

There are also private bus companies providing connections from and to the main Cities of Campania region

## SERVICES

ADISU point, Sinapsi Center, Canteens, Bar, Copy service, ATM.