

UNIVERSITY OF NAPLES  
FEDERICO II



A brief presentation

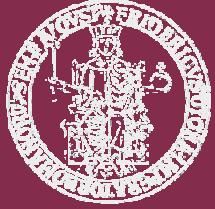


UNIVERSITY OF NAPLES

FEDERICO II

OUR HISTORY, OUR FORCE





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# History

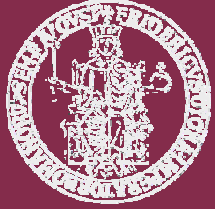


The University of Naples “Federico II” is the oldest public university in the world.

Frederick II, King of Sicily and Holy Roman Emperor, established the University of Naples, on 5 June 1224.

In recognition of its founder, the university was named Federico II in 1987.



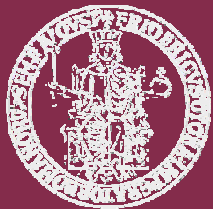


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# History

- ✓ The King's objective was to create an institution of higher learning that would put an end to the predominance of the universities of Northern Italy.
- ✓ He hired professors who would become royal employees paid through royal funds.
- ✓ Moreover, the Emperor himself examined candidates and conferred degrees.



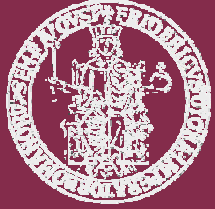


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# Federico II now

- ✓ Biggest research centre in the South of Italy.
- ✓ Solid network of collaboration with foreign Universities, research centers and industries.
- ✓ Numerous international-based projects in the University allow the students to spend time studying abroad.
- ✓ The "Federico II" University provides information and guidance for students, with its service centers and its computer network [www.unina.it](http://www.unina.it)

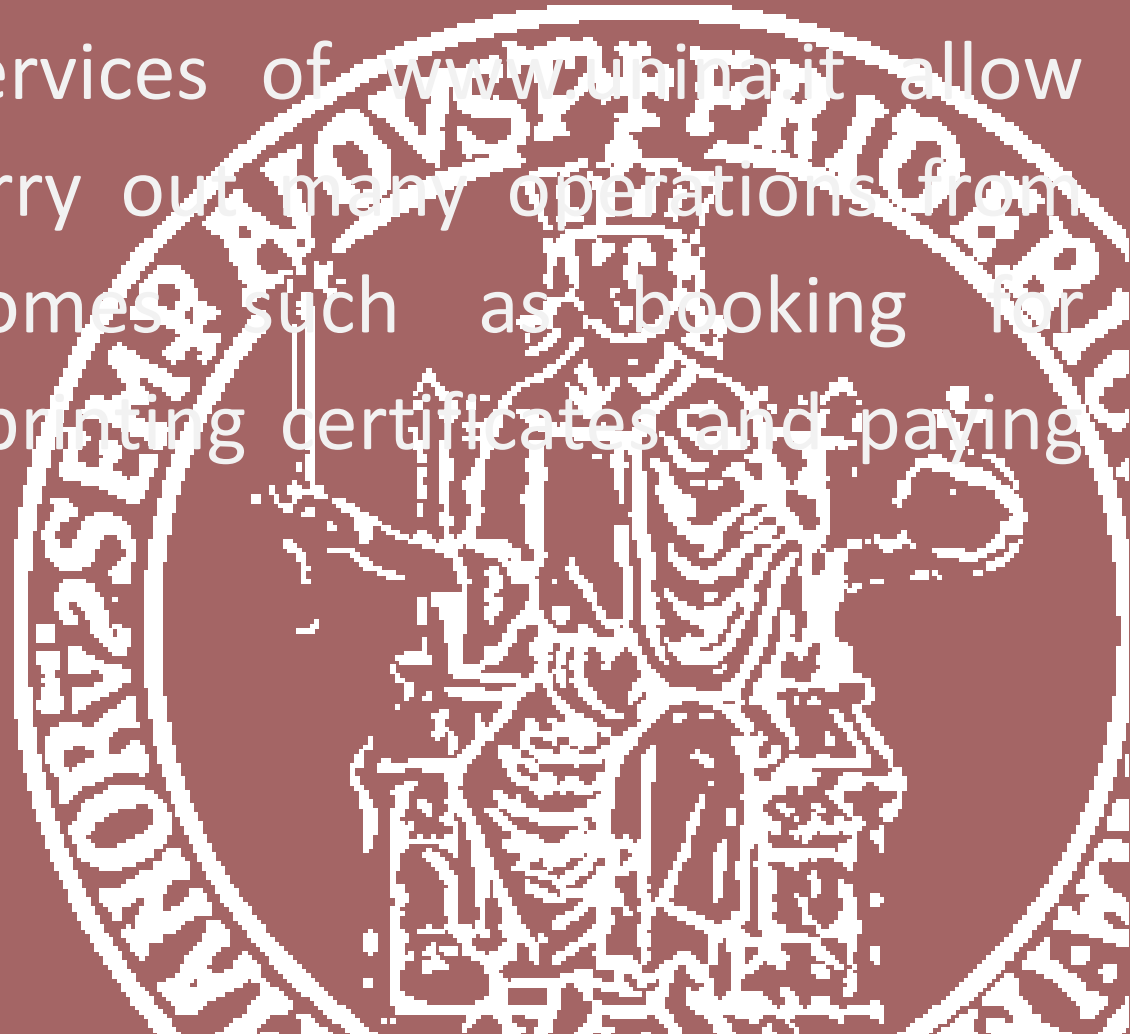


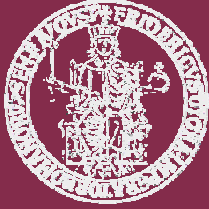


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## Federico II now

The on-line services of [www.unina.it](http://www.unina.it) allow students to carry out many operations from their own homes, such as booking for examinations, printing certificates and paying their fees.



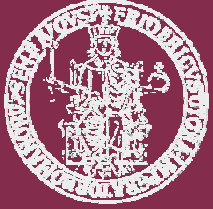


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There is also:

- ✓ a *Language Centre*,
- ✓ a special *Student Orientation Centre*,
- ✓ a *Tele-didactic Centre*, which can be useful even post-degree,
- ✓ a *Consultancy Centre* for disabled students,
- ✓ and a *Radio* on the web.

Students also have access to the digitalized library system, with its thousands of books and magazines.



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## *Student associations*

- ✓ The University “Federico II” has a tradition of promoting and supporting student associations.
- ✓ There are more than *fifty student associations* which bring together students of widely varied cultural and social backgrounds.
- ✓ These associations give rise to different initiatives and activities, including sporting events, arts, social and political forums.





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# Erasmus programme in Naples

<http://www.unina.it/universita-international/student-mobility/erasmus>

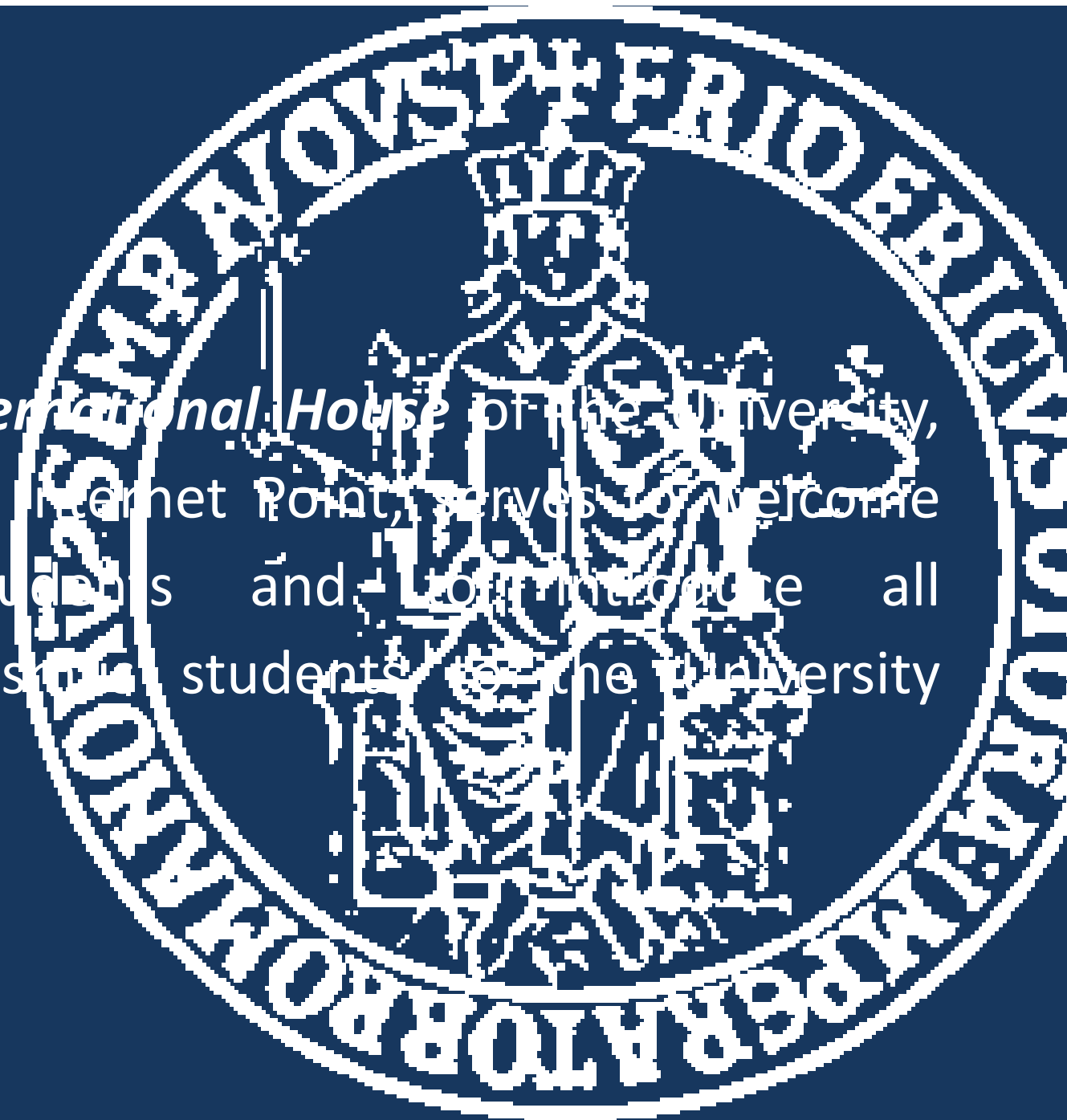
About 500 students/year





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The *International House* of the University, with its Internet Point, serves to welcome the students and to introduce all the Erasmus students to the University itself.





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## Accommodation

- The company Erasmus Point Naples will help you finding accommodation in Naples.
- The service offered on behalf of the University of Naples Federico II, is free of charge.

In addition Erasmus Point Naples offers:

- Lodging contract assistance
- Visa (Residence permit) assistance
- Banking point dedicated for opening accounts without commission
- Italian Number of mobile reserved before leaving the native country
- Luggage deposit
- Sightseeing tours and trips



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# Costs for Erasmus students in Naples

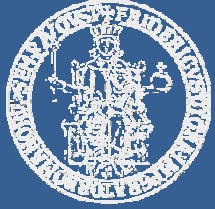
- Accommodation: 300€/month
- Transport: 50€/month
- Food and other: 150€/month
- Total about 500€/month

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SCHOOLS AND DEPARTMENTS





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# Schools

In the University of Naples Federico II there are 29 departments, organized in 4 schools:

School of Agriculture and Veterinary Medicine

Polytechnic and Basic Sciences School

School of Human and Social Science

School of Medicine

4 Schools





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School of  
Agriculture  
and  
Veterinary  
Medicine

Polytechnic  
and Basic  
Sciences  
School

School of  
Human and  
Social Science

School of  
Medicine

# Departments

# 26 Departments

- Department of Agriculture  
<http://agraria.dip.unina.it/>
- Department of Architecture  
[www.diacr.unina.it](http://www.diacr.unina.it)
- Department of Advanced Biomedical Sciences  
<http://scienzebiomedicheavanzate.dip.unina.it/>
- Department of Biology  
<http://biologia.dip.unina.it/>
- Department of Civil, Building and Environmental Engineering  
<http://dicea.dip.unina.it/>
- Department of Chemical, Materials and Production Engineering  
[www.dicmapr.unina.it](http://www.dicmapr.unina.it)
- Department of Chemical Sciences  
<http://scienzechimiche.dip.unina.it/>
- Department of Clinical Medicine and Surgery  
<http://dmcc.dip.unina.it/>
- Department of Earth, Environment and Resources Sciences  
[www.distar.unina.it](http://www.distar.unina.it)
- Department of Economics, Management and Institutions  
[http://economia\\_management\\_istituzioni.dip.unina.it/](http://economia_management_istituzioni.dip.unina.it/)
- Department of Economics and Statistics  
<http://dises.dip.unina.it>
- Department of Electrical and Information Technology Engineering  
[www.dieti.unina.it](http://www.dieti.unina.it)
- Department of Humanities  
<http://studiumanistici.dip.unina.it/>
- Department of Industrial Engineering  
[www.dii.unina.it](http://www.dii.unina.it)
- Department of Law  
[www.giurisprudenza.unina.it](http://www.giurisprudenza.unina.it)
- Department of Mathematics and Application  
[www.dma.unina.it](http://www.dma.unina.it)
- Department of Molecular Medicine and Medical Biotechnologies  
<http://dmmbm.dip.unina.it/>
- Department of Neuroscience, Reproductive Sciences and Dentistry  
<http://neuroscienze.dip.unina.it/>
- Department of Pharmacy  
<http://farmacia.dip.unina.it/>
- Department of Physics  
[www.fisica.unina.it](http://www.fisica.unina.it)
- Department of Public Health  
<http://sanitapubblica.dip.unina.it/>
- Department of Political Sciences  
<http://scienzepolitiche.dip.unina.it/>
- Department of Social Sciences  
[www.scienze sociali.unina.it](http://www.scienze sociali.unina.it)
- Department of Structures for Engineering and Architecture  
[www.dist.unina.it](http://www.dist.unina.it)
- Department of Translational Medicine  
[www.medicinatrslazionale.unina.it](http://www.medicinatrslazionale.unina.it)
- Department of Veterinary Medicine and Animal Production  
[www.mvpa.unina.it](http://www.mvpa.unina.it)



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## NUMBERS

- an academic staff of more than 3,500 people
- an administrative staff of more than 4,500 people
- current student enrollment is still about 100,000







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## “FEDERICO II” Today

- ✓ Its venues are spread throughout the city of Naples and its immediate surroundings.
- ✓ The three major campuses are located in the centre of town, its Northern and Western area.
- ✓ The Biotechnology courses are located at the Northern site of the city, a place very easily reachable by the subway.

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EDUCATION AT “FEDERICO II”





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## Academic calendar

Courses can start as early as September/October and, in general, are held through the end of May/middle of June.

Teaching activities are divided into two semesters:

- from September to February and
- from February to July.

There are two half-term holidays, at Christmas and Easter, and a summer holiday from the end of July to the beginning of the courses of the next academic year.

As a rule, lectures are given in Italian, but there are some courses held in English.



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## Attending courses

There are no pre-requisites to attend courses, nor registration fees.

Exams are given orally but, in some cases, they also include a written test.

Courses contents and exam schedules are planned by Schools/Departments and available from each web site.





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## Web Docenti

“Web Docenti” is a tool that allows the electronic connection between teachers and students.

Through this service, teachers of University “Federico II” can send news, documents and materials on teaching and research activities.





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## Italian Courses

The University offers free intensive Italian language courses for Erasmus students in both winter and summer semester.

The CLA organizes also movie cycles for educational and cultural purposes. The selected film in original language (English, French, Spanish, German, Catalan) are subtitled in Italian.

Centro Linguistico di Ateneo  
Via Partenope, 36 - 80121 Napoli  
e-mail: [cla@unina.it](mailto:cla@unina.it)  
Web-site: [www.cla.unina.it](http://www.cla.unina.it)





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# Courses for teaching areas

- Agriculture
- Architecture
- Economics
- Pharmacy
- Law
- Engineer
- Medicine and Surgery
- Veterinary Medicine
- **Biotechnological Sciences**
- Mathematics, Physics and Natural Sciences
- Political Sciences
- Sociology Humanities

13

Teaching areas

141

Courses



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# ➤ BIOTECHNOLOGICAL SCIENCES

Title	Title required	Access to the course:	Course duration:
Biotechnologie Biomolecolari e Industriali Biomolecular and Industrial Biotechnology	High School diploma	programmed number	3 years
<b>Biotechnologie per la Salute</b> <b>Biotechnology for Health</b>	High School diploma	programmed number	3 years
Biotechnologie Agro-Ambientali e Alimentari Agro-Environmental Biotechnology and Food	Bachelor Degree	opened	2 years
Agrobiotechnologie Agrobiotechnologies	Bachelor Degree	opened	2 years
Biotechnologie del Farmaco Biotechnology Medicines	Bachelor Degree	opened	2 years
Biotechnologie Molecolari e Industriali Molecular and Industrial Biotechnology	Bachelor Degree	opened	2 years
<b>Biotechnologie Mediche</b> <b>Medical Biotechnology</b>	Bachelor Degree	opened	2 years





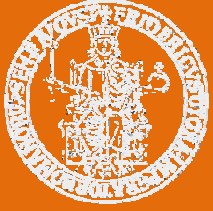


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# Biotechnology







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# Biotechnologies for Health

The course is divided into **four curricula**, which differ in a few learning activities that develop in the last three cycles (or semesters) of the six that make up the overall study plan:

- [Medical curriculum](#);
- [Pharmaceutical curriculum](#);
- [Alimentary Curriculum](#);
- [Veterinary curriculum](#).



Access to the course is regulated on the basis of local planning with a mandatory test for admission (375 places per year).



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# Biotechnologies for Health

## Study Plan (courses are in Italian)

Year	Term	Denomination	Credit	Modules
I	First	<a href="#">Chemistry</a>	9	
		<a href="#">Applied physics, and informatics principles</a>	11	2
		<a href="#">Math and statistical elements</a>	6	
	Second	<a href="#">English</a>	5	
		<a href="#">Organic chemistry</a>	9	
		<a href="#">Genetics</a>	6	
		<a href="#">Biology</a>	9	





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# Biotechnologies for Health

Year	Term	Curriculum	Denomination	Credit	Modules	
II	First		<a href="#">Biochemistry</a>	9	2	
			<a href="#">Molecular biology</a>	9		
			<a href="#">Microbiology and Immunology</a>	11	2	
	Second			<a href="#">Cellular, Molecular and Computational Biotechnologies</a>	9	2
				<a href="#">Morphological and functional sciences</a>	10	2
		Food		<a href="#">Plant biotechnology</a>	8	
		Farmaceutic		<a href="#">Bioorganic chemistry</a>	6	
		Medical		<a href="#">Integrated diagnostics</a>	10	2
Vet		<a href="#">Animal Morphophysiology</a>	10	2		





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# Biotechnologies for Health

Year	Term	Curriculum	Denomination	Credit	Modules
III	First	Food	<a href="#">Immunobiology and Biochemistry of Food</a>	12	2
		Farmaceutic	<a href="#">Pharmaceutical Chemistry</a>	8	
			<a href="#">Technology and Pharmaceutical Legislation</a>	6	
		Medical	<a href="#">Medical Genetics and Clinical Microbiology</a>	10	2
		Vet	<a href="#">Veterinary Pathology and Parasitology</a>	10	2
			<a href="#">Biotechnology for Biochemistry and Molecular Biology</a>	12	2
		<a href="#">Pathology</a>	6		
	Second		<a href="#">Business Administration</a>	5	
			<a href="#">Pharmacology and Toxicology</a>	9	
			<a href="#">Course at student's choice</a> (29 optional classes)	15	3
			<a href="#">Final exam</a>	4	
			<a href="#">Internship</a>	6	



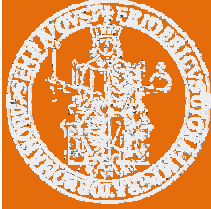


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# Biotechnologies for Health

## Course at student's choice (in Italian)

Denomination	Credit	Denomination	Credit
<a href="#"><u>Application of law in Biotechnology</u></a>	5	<a href="#"><u>Animal models of human disease</u></a>	5
<a href="#"><u>Industrial biochemistry</u></a>	5	<a href="#"><u>Comparative Oncology</u></a>	5
<a href="#"><u>Biology and Pathology of development and growth</u></a>	5	<a href="#"><u>Proteomics</u></a>	5
<a href="#"><u>Advanced biotechnology in the reproduction of mammals</u></a>	5	<a href="#"><u>Environmental Biochemical techniques</u></a>	5
<a href="#"><u>Recombinant biotechnologies</u></a>	5	<a href="#"><u>Structural biology techniques</u></a>	5
<a href="#"><u>Plant biotechnology for allergen control</u></a>	5	<a href="#"><u>Immunopharmacology techniques</u></a>	5
<a href="#"><u>Receptors chemistry</u></a>	5	<a href="#"><u>Microbiology techniques</u></a>	5
<a href="#"><u>Plant Physiology and Human Nutrition</u></a>	5	<a href="#"><u>Bioorganic chemistry special techniques</u></a>	5
<a href="#"><u>Fundamentals of molecular spectroscopy</u></a>	5	<a href="#"><u>Histological animal tissues techniques</u></a>	5
<a href="#"><u>Advanced Immunology</u></a>	5	<a href="#"><u>Gene and cell therapy techniques</u></a>	5
<a href="#"><u>Laboratory of Molecular Genetics</u></a>	5	<a href="#"><u>Methodologies in Clinical Biochemistry</u></a>	5
<a href="#"><u>Metabolism and diagnostic techniques of additives and residues</u></a>	5	<a href="#"><u>Methodologies in anatomy and histology</u></a>	5
<a href="#"><u>Imaging methods</u></a>	5	<a href="#"><u>Methodologies in pathological cytology</u></a>	5
<a href="#"><u>Histological and embryological methods</u></a>	5	<a href="#"><u>Methodologies in molecular diagnostics</u></a>	5
<a href="#"><u>Pharmacological methods</u></a>	5		



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# Medical Biotechnologies courses Magistral degree

All the courses are being held  
in two parallel channels:  
Italian and English

- 100 students per year
- approximately 20% choose the English channel







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# Medical Biotechnologies courses

## Study Plan

Year	Term	Denomination	Credit	Modules
I	First	<a href="#"><u>Biochemistry of complex systems and Bioinformatics</u></a>	10	2
		<a href="#"><u>Developmental Biology and control of gene expression</u></a>	10	2
		<a href="#"><u>System Pharmacology and Cellular and Gene Therapy</u></a>	10	2
	Second	<a href="#"><u>Advanced diagnostics</u></a>	10	2
		<a href="#"><u>Genetics and molecular pathology</u></a>	10	2
		<a href="#"><u>Microbiology and Microbial Biotechnology</u></a>	8	2





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# Medical Biotechnologies courses

Year	Term	Denomination	Credit	Modules
II	First	<a href="#">Molecular basis of immunological and neurological diseases</a>	10	2
		<a href="#">Molecular basis of oncological and hematological diseases</a>	10	2
	Second	<a href="#">Bioethics</a>	5	1
		<a href="#">Synthesis of biomolecules</a>	5	1
		<a href="#">Course at student's choice</a> (24 optional classes)	10	2
		<a href="#">Final exam (thesis preparation and defense)</a>	12	
		<a href="#">Internship</a>	10	



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# Medical Biotechnologies courses

## Course at student's choice (in italian)

Denomination	Credit	Denomination	Credit
<a href="#">Anatomy, physiology and integrated imaging of vertebrate</a>	5	<a href="#">Recombinant biotechnologies</a>	5
<a href="#">Morphomolecular diagnostic applications in histopathology</a>	5	<a href="#">Diagnostic Imaging</a>	5
<a href="#">Molecular and clinical aspects of motor activity</a>	5	<a href="#">Epidemiology</a>	5
<a href="#">Pharmacological Biotechnologies</a>	5	<a href="#">Immunobiotechnology</a>	5
<a href="#">Endocrinology</a>	5	<a href="#">Aging medicine and biotechnology</a>	5
<a href="#">Advanced diagnostics of additives and residues</a>	5	<a href="#">Molecular oncology</a>	5
<a href="#">Internal medicine</a>	5	<a href="#">Development of biomolecules for clinical applications</a>	5
<a href="#">Biochemical methodologies applied to cell therapy</a>	5	<a href="#">Alternative farming</a>	5
<a href="#">Transplantation</a>	5	<a href="#">Biotechnology applied to animal feed</a>	5
<a href="#">Morphological and molecular diagnostic applications in cytopathology</a>	5	<a href="#">Genetic biotechnologies in livestock</a>	5
<a href="#">Molecular targets in cancer therapy</a>	5	<a href="#">Veterinary Pharmacology and Toxicology</a>	5
<a href="#">Reproductive Biology</a>	5	<a href="#">Mariculture</a>	5





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# Medical Biotechnologies, training

- > **Our Department hosts regularly dozens of graduating students,**
- > **For lab training students may be also hosted outside the University: CNR research centers, Cancer research Center, Tigem/Telethon institute.**
- > **Students can also prefer diagnostic biotechnologies, that are possible both in our Department and in excellent local hospitals.**

# Department of Molecular Medicine and Medical Biotechnology

<http://dmmbm.dip.unina.it/>

The main research areas of the Department are *molecular oncology, cell biology, genetic diseases, immunology and immune-related diseases*.

Most of the research groups exploit cellular and animal models of the diseases under study and several projects are largely based on the computational analysis of biological phenomena.



# Department of Molecular Medicine and Medical Biotechnology

<http://dmmbm.dip.unina.it/>

- Our Department reached top-score ranking within the departments of “Federico II”.
- It is the first in the biomedical area.



# Department of Molecular Medicine and Medical Biotechnology

<http://dmmbm.dip.unina.it/>

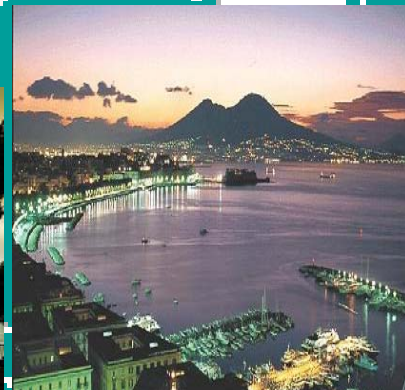


## PhD Program in Molecular Medicine and Medical Biotechnology

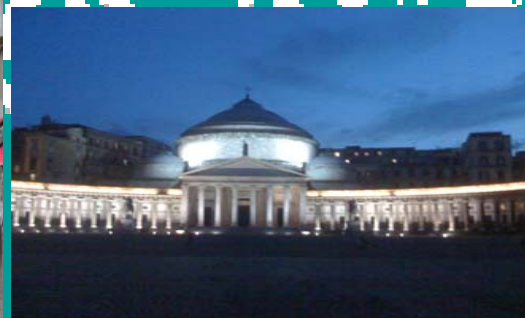
This program is interdisciplinary since it provides the opportunity to generate and develop skills in basic biology applied to molecular medicine, specifically, Molecular Pathology, Cancer Biology, Molecular Genetics, Biotechnology and Computational Biology.



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WELCOME TO NAPLES





# UNIVERSITY OF NAPLES FEDERICO II



# NAPLES, ITALY OUR TERRITORY, OUR CITY





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Naples has got so many Heritage, that Unesco give to the city the title of Humanity Heritage.....



**PALAZZO REALE (ROYAL PALACE)**



**TEATRO DI SAN CARLO  
(ROYAL THEATRE OF SAN CARLO)**

It is one of the oldest opera house in the world, opening in 1737. It is located adjacent to the central Piazza del Plebiscito, and connected to the Royal Palace.





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Naples has got so many Heritage, that Unesco give to the city the title of Humanity Heritage.....



SORRENTO and the Beauty of Peninsula Sorrentina



CAPRI ISLAND



UNIVERSITY OF NAPLES

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**Gaetano Manfredi**

*Rector University of Naples*

*"Federico II"*





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**We will be very pleased to host  
you in Naples!**

