

Why ENROLL ?

- Because the program offers a large and flexible choice of supplementary courses that allows a critical understanding of relevant and innovative fields of chemistry and biochemistry, like environmental chemistry, chemistry for the sustainability and energy, chemistry of biomolecules or methodologies for synthesis and catalysis.
- Because the courses have an excellent professors/ students ratio.
- Because at the Department of Chemical Sciences that hosts the degree there are state-of-art laboratories.
- Because a significant space is dedicated to the experimental thesis, which engages the student in an advanced research project developed with originality and increasing degree of autonomy.
- Because a training internship is offered at companies, or at public and private laboratories. This facilitates the inclusion in the world of work.
- Because there are several mobility opportunities for students, thanks to contacts with international universities.

Coordinator

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Il Campus di Monte Sant' Angelo



Useful links

Polytechnic and Basic Sciences School

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

Department of Chemical Sciences

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

Master Degree in Chemical Sciences

<http://www.scienzechimiche.unina.it/lmsc>

Student Secretary

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

COLLEGIO
DEGLI STUDI DI
SCIENZE

MASTER
DEGREE
**CHEMICAL
SCIENCES**



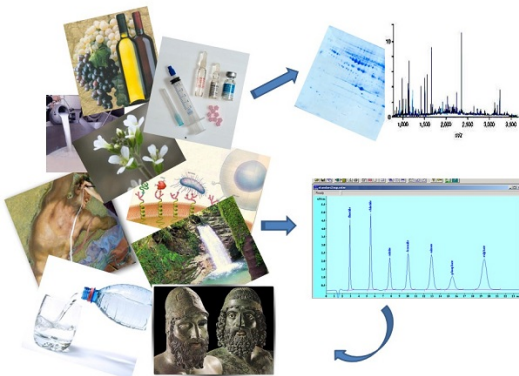
**Dipartimento di
Scienze Chimiche**

EDUCATIONAL OBJECTIVES

The aim of the course is to integrate and deepen knowledge of chemical sciences that is acquired in the Master degree through a path that is adapted to the student's educational needs and to the requirements of the world of work.

Graduates in Chemical Sciences acquire:

- a solid background in different fields of chemistry;
- an advanced knowledge of data analysis techniques and of modern instruments that are able to measure the properties of chemicals;
- a deep knowledge of the scientific method;
- the ability to use the English language fluently, in written and oral form (level B2);
- a significant autonomy, which will enable graduate to take on high-responsibility roles in projects and facilities.



ADMISSION REQUIREMENTS

Information for admission are available at the Web site:

<http://www.scuolapsb.unina.it/index.php/studiare-al-napoli/ammissione-ai-corsi>

TRAINING STRUCTURE

The degree Course is certified as "Chemistry Euromaster Label", that is recognised in the European community countries and allows the graduate students to continue the postgraduate specialization studies abroad, in other European associated Universities.



STUDY PROGRAM (120 CFU)

Beside the consolidation of the basic subjects (General Chemistry, Analytical Chemistry, Physical Chemistry, Organic Chemistry and Biological Chemistry in five courses 10 CFU each, 4 study paths have been outlined, defined on the basis of 4 affine and integrative courses for 6 CFU each, 3 of which to be selected by the student.

The study paths and the corresponding courses are:

Chemistry of the Environment and of Cultural Heritage

- Archaeology of the production
- Environmental chemistry
- Chemistry of cultural heritage
- Environmental physical chemistry

Chemistry for Life Sciences

- Biocrystallography
- Methodologies for the production and characterization of biomolecules
- Structural and functional proteomics
- Structure and interactions of proteins and bioactive peptides

Chemical Methodologies for Synthesis and Catalysis

- Chemistry and technology of Catalysis
- Metallorganic materials: synthesis, applications and impact
- Special Methodologies for Organic Synthesis
- Asymmetrical synthesis

Chemistry for Energy and Sustainability

- Physical chemistry of renewable energies
- Natural and artificial systems for sustainable technologies
- Organic chemistry for sustainable technologies
- Management of energy resources of territory

2 elective courses for 12 CFU

English language 4 CFU

Practical training 5 CFU

Practice for the Master Degree thesis 30 CFU

Final test 1 CFU

JOB OPPORTUNITIES

Graduates in Chemical Sciences will be able to carry out functions as:

- Head of Laboratory of Chemical Analysis and Quality Control;
- Head of Laboratory for Diagnosis and Analysis of the Environment and Cultural Heritage;
- Head of Laboratory of Synthesis;
- Sales rep for Products and Instrumentation for Analysis;
- Graduated Technician in Chemical and Pharmaceutical Sciences;
- Researcher.

He/she will be able to find positions in:

- Public Institutions (Healthcare, Customs, Special Corps as Police);
- Public and Private Research Institutions;
- Laboratory of Analysis, Quality Control and Certification;
- Industries and Companies that require basic knowledges in Chemistry.

He/she will be able to carry out his activities not only as an employee, but also as consultant freelance, after becoming a certified Chemist by passing the qualifying examination. He/she will also be able to work as agro-expert, after passing the qualifying examination.

With the specific requirements as for the in force legislation, he/she will be able to enter the educational training course for primary and secondary school.

THE LOCATION

The location for teaching and scientific activities is inside the Complesso Universitario di Monte S. Angelo
Via Cintia, Napoli

HOW TO REACH

By car: Arriving to Naples from the highway, exit Fuorigrotta of the Tangenziale di Napoli.

By train: Metro Linea 2 (stop Campi Flegrei) Circumflegrea (stop Mostra)

By buses:

Piazzale Tecchio - MSA: 180, R6, 615
Piazza Leonardo (Vomero) - MSA: C33

Several private bus services are running from Napoli and the other provinces in Campania

Services

Punto Adisu | Centro Sinapsi | Cafeterias | Bar
Copying Service | Bancomat