

## Why ENROLL ?

Why enrolling into a Geology Bachelor?

The principal challenge facing the world's growing population is how to maintain sustainable access to the natural resources – water, energy and food – that are necessary for us to enjoy a good quality of life, while protecting the environment. Energy disposal from fossil to renewable still rely on our ability to explore the subsurface. Moreover, our society is more and more forced to adapt at environmental changes, climate crisis. But also developing methodologies to monitor natural hazard as volcanoes and earthquakes. This require to develop a deep understanding of the many processes that shape the Earth and life on it which is the main role of the geoscientist both as professional and researcher.

While choosing Naples Federico II University?

- Naples offers which cutting-edge degree which balances data science, computing skills with traditional field work and laboratory skill.
- Our courses are characterized by high lecturer/student ratio which assure a unique interaction with the teaching staff.
- Our Department is a well-established reality within a unique natural scenario including volcanoes, marine environment and impressive cultural heritage.

### Coordinator

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**Polytechnic and Basic Sciences School**  
[www.scuolapsb.unina.it](http://www.scuolapsb.unina.it)

**Department of Earth, Environment and Resources Sciences (DiSTAR)**  
<http://www.distar.unina.it>  
<https://www.facebook.com/Dipartimento.Sienze.della.Terra>  
[https://www.instagram.com/distar\\_unina/](https://www.instagram.com/distar_unina/)

**Bachelor Degree in Geological Sciences**  
<http://www.distar.unina.it/en/laurea-triennale-in-scienze-geologiche/info-general-ed-ammissione>

**Student bureau**  
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Opening times:  
Tuesday, Wednesday and Thursday 9:00 a.m. to 12:00 a.m.

**Student Association Scienze Geologiche UNINA**  
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UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II  
SCUOLA POLITECNICA E DELLE SCIENZE DI BASE



## BACHELOR DEGREE GEOLOGICAL SCIENCES



## EDUCATIONAL TARGETS

The educational offer of the Bachelor Degree in Geological Sciences involves all the disciplines and expertises of modern Earth Sciences.

The study program allows the students to acquire the knowledge of the past and present Earth dynamics, and to apply it to the sustainable planning of anthropic activities.

The latter, such as mining and water resources management, strongly interact with the environment and, like the hydrogeologic, volcanic and seismic risk mitigation, need the involvement of geologists.

The very peculiar feature of the educational path is to join frontal lessons to a rich offer of field and laboratory activities for learning the use of experimental methodologies.

Furthermore, traineeships at private and public companies or research institutes, along with stages in other Italian or foreign universities, are planned.

The full educational path in Earth Sciences at University of Naples Federico II comprises the basic Bachelor Degree in Geological Sciences and two Masters of Sciences, in Geosciences for the Environment, Resources and Natural Hazards, with four different thematic sub-paths, and in Volcanology.

## ADMISSION REQUIREMENTS

The students that got a secondary school diploma can access the Bachelor Degree in Geological Sciences provided that they take a non-selective admission test needed only for self-evaluation.

The test can be taken on line (TOLC-i), after pre-booking, in several sessions scheduled in the February-November time-span.

The test is held at the Monte Sant' Angelo campus of Federico II University, but it can be taken in any of the location where CISIA schedules it. It is composed of four series of questions about different cultural areas: logic, verbal reasoning, maths and sciences. More information is given at the websites DiSTAR (<http://www.distar.unina.it/>) and Polytechnic and Basic Sciences School (SPSB; <http://www.scuolapsb.unina.it>).

## TRAINING PATH

### 1<sup>st</sup> YEAR

|   | CFU |
|---|-----|
| General chemistry and principles of organic chemistry | 8   |
| Introduction to Geosciences                           | 8   |
| Mathematics   | 12  |
| Mineralogy  | 8   |
| Physics   | 12  |
| Geographic Information Systems                        | 5   |
| Palaeontology   | 8   |

### 2<sup>nd</sup> YEAR

|   |    |
|---|----|
| Geochemistry                            | 6  |
| Geophysics                              | 8  |
| Petrography                             | 8  |
| English language laboratory             | 3  |
| Structural geology                      | 12 |
| Stratigraphic geology and Sedimentology | 12 |
| Volcanology                             | 6  |
| Free choice course                      | 6  |

### 3<sup>rd</sup> YEAR

|                            |    |
|----------------------------|----|
| Georesources               | 9  |
| Applied geophysics         | 9  |
| Applied geology            | 10 |
| Geomorphology              | 10 |
| Geological field surveying | 6  |
| Free choice course         | 6  |
| Traineeship                | 5  |
| Thesis                     | 3  |



## JOB OPPORTUNITIES

The skills acquired by the graduates in Geological Sciences concern:

- geological and geophysical investigations for planning civil engineering works and infrastructures
- finding and sustainable exploitation of energy, water and mineral resources
- assessment of geological hazards (volcanic, seismic, hydrogeological, geochemical) and support to risk mitigation
- characterization of geomaterials for Cultural Heritage preservation.

The graduates can find job placement as technicians in public or private companies and they can access the junior geologist professional register.

## POST GRADUATE STUDY OPPORTUNITIES

The graduates in Geological Sciences can directly access the Masters of Sciences in Geosciences for the Environment, Resources and Natural Hazards and in Volcanology, or other 1<sup>st</sup> level Masters.

## LOCATION

The courses are held at Monte Sant'Angelo Campus, Building L (Naples), where also the library and the student bureau are located.

You can reach the campus by bus from the Campi Flegrei metro station (Linea 2 Trenitalia), from the Mostra station (Cumana railway EAV), from the Traiano station (Circumflegrea railway EAV) and by several private buses from other towns in the neighborhoods of Naples.

On site facilities:

Adisu Centre | Sinapsi Centre | Cafeterias | Bars  
Xerocopy service | Bancomat