

BSc in EARTH SCIENCES FOR SUSTAINABLE DEVELOPMENT (ESSD)



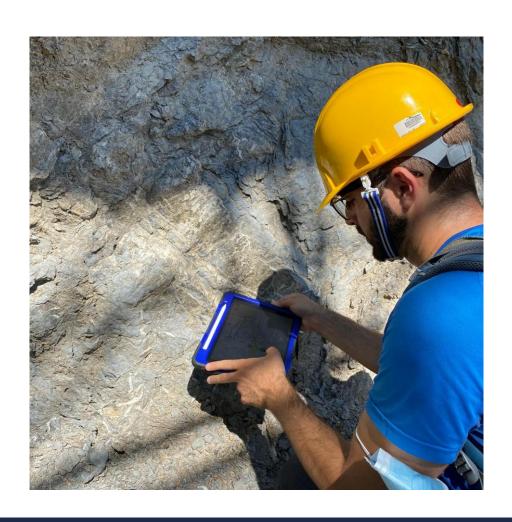
Georesources and Geohazard are key area of action in the quest for sustainable future











Geoscientists study the Earth and the processes that shape it.

Geoscientists are, and increasingly will be, key actors in tackling the pressing challenges posed by energy transition, responsible utilization of Georesources and Geohazard.





Research



Finding and sustainable management of georesources



Preventing and mitigating geohazard







Global challenges require global answers.

Job opportunities in industry, public, academia... worldwide.

Geoscientist is a "global" professional.



## BSc in Earth Sciences for Sustainable Development (ESSD)

## **HIGHLIGHTS**

- Taught entirely in **English**
- Focus on Georesources and Geohazards
- Core courses in the fundamentals of Geosciences
- Novel courses to learn a modern approach to the challenges of Georesources and Geohazards
- Collaborations with UN and other international institutes in Trieste

#### **GOALS**

- Support growth of Sustainable Development culture
- Train qualified professionals for the global job market
- Get students ready to pursue higher level degrees
- Favor knowledge transfer to less developed countries



## WHY TRIESTE?

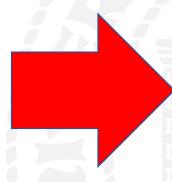
High quality teaching and research in geosciences

Home of national and international institutions that operate in the fields of geosciences









Great potential for creating opportunities







## WHY TRIESTE?

Opportunity to access higher-level degrees

**MSc in Geophysics and Geodata** 

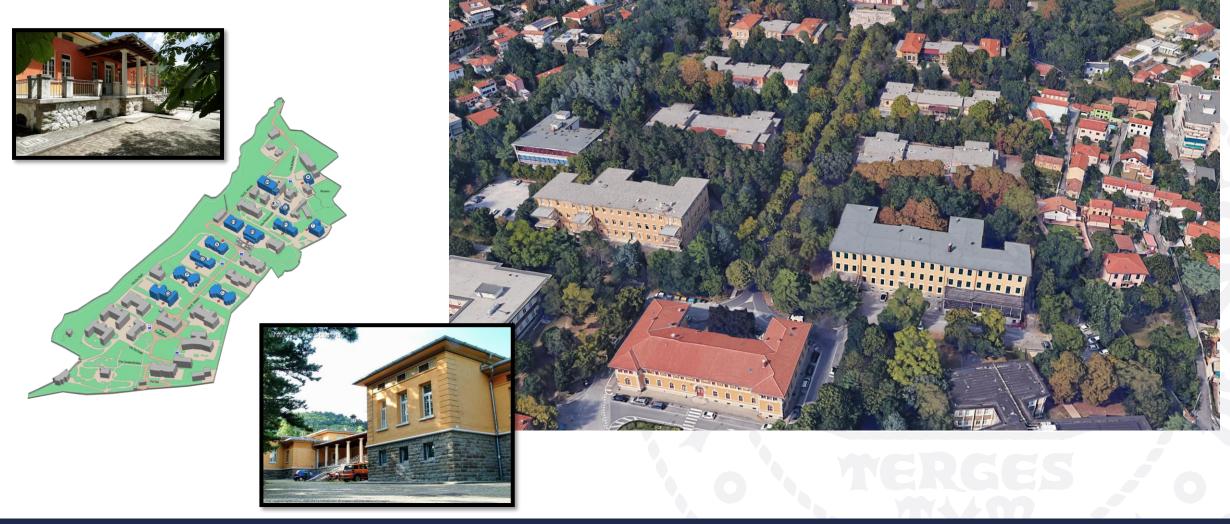
Master's degree in Sustainable Blue Economy

PhD School in Earth Sciences, Fluid Dynamics and Mathematics

**ICTP Postgraduate Diploma Programme** 



## THE SAN GIOVANNI CAMPUS





## BSc in Earth Sciences for Sustainable Development (ESSD)

## Admission requirements:

- Valid high-school diploma.
- Selection through TOLC (online attitudinal and knowledge test).
- Minimum B2 level English proficiency

## Max 50 students/year:

Ranking based on TOLC test results

**Enrolments scheduled to open end May - early June 2025** 

keep an eye on the UniTS website for the call for admissions!



## STUDY PLAN

## strong fundamentals and focus on the challenges of Sustainable Development

#### FIRST YEAR

- General Geology and Physical Geography
- Fundamentals of Mathematics for Earth Sciences
- Fundamental of Physics for Earth Sciences
- Sedimentary Geology and Paleontology
- Chemistry
- Geochemistry of Planet Earth
- Mineralogy

#### **SECOND YEAR**

- Petrography
- Structural Geology and Rock Mechanics
- Earth Surface Processes, Landforms and Climate Change
- Geophysics
- Digital Geologic and Thematic Mapping
- Engineering Geology and Applied Geophysics
- Introduction to Geologic Data Acquisition and Interpretation
- One free-choice exam

#### THIRD YEAR

- Georesources and Elements of Petrogenesis
- Hydrogeology and water management
- Geohazards and sustainability
- Environmental Geochemistry and Mineralogy
- Geological Surveying
- Introduction to Data Science for Geosciences
- One free-choice exam
- Traineeship
- Thesis



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## WHAT YOU CAN DO NOW IF YOU ARE NOT ITALIAN CITIZEN

## Do your English TOLC-I test!

https://www.cisiaonline.it/tolc/english-tolc-i/structure-and-syllabus





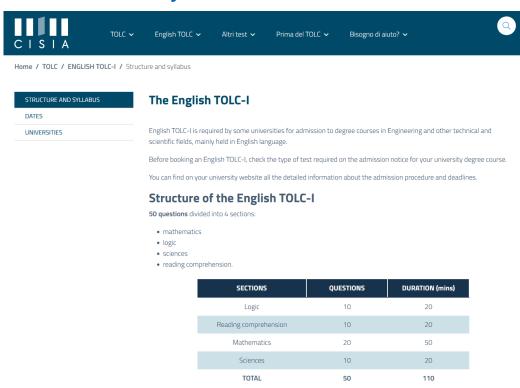


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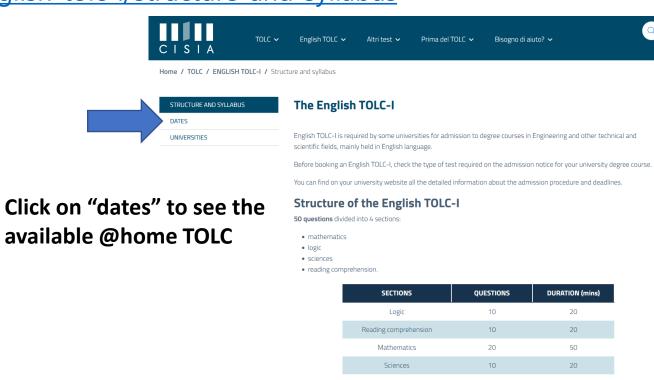


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## WHAT YOU CAN DO NOW IF YOU ARE NOT ITALIAN CITIZEN

Submit documents to the DreamApply platform for pre-evaluation (it costs 10 euros) AS SOON AS THE PLATFORM OPENS:

https://apply.units.it/courses/course/96-b-earth-sciences-sustainable-development





## WHAT YOU CAN DO NOW IF YOU ARE NOT ITALIAN CITIZEN

#### **AFTER EVALUATION OF SUBMITTED DOCUMENTS**

You will then receive an offer with instructions to:

- Apply for VISA
- Apply to call for admissions
- Finalize enrolment



# **CONTACTS**

PERSPECTIVE STUDENTS SUPPORT

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**ENROLLMENT AND ADMISSIONS** 

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**TEACHING SECRETARIAT of MIGE** 

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