

## Minimal Entry Requirements

Enrollment will be allowed to the candidates having a Bachelor degree (or equivalent) in scientific Courses, with basic knowledge of Earth Sciences. The Council of the Master's Degree Course will evaluate for enrollment the curriculum of the candidates.

## Language Requirements

English language B2-level based on the European Framework of Reference for Languages is required.

<https://www.coe.int/en/web/common-european-framework-reference-languages/?desktop=true>

Candidates from countries whose official language is English do not need to hold a certificate of English language competence.

## Enrollment

Enrollment at Italian Universities is regulated by the national law establishing various access procedures for students holding a foreign degree. Scholarship opportunities are available.

To find useful information:

<https://www.unime.it/it/international/studenti-stranieri/studenti-stranieri>  
[foreignstudents@unime.it](mailto:foreignstudents@unime.it)  
[uopwelcomeoffice@unime.it](mailto:uopwelcomeoffice@unime.it)



## Location

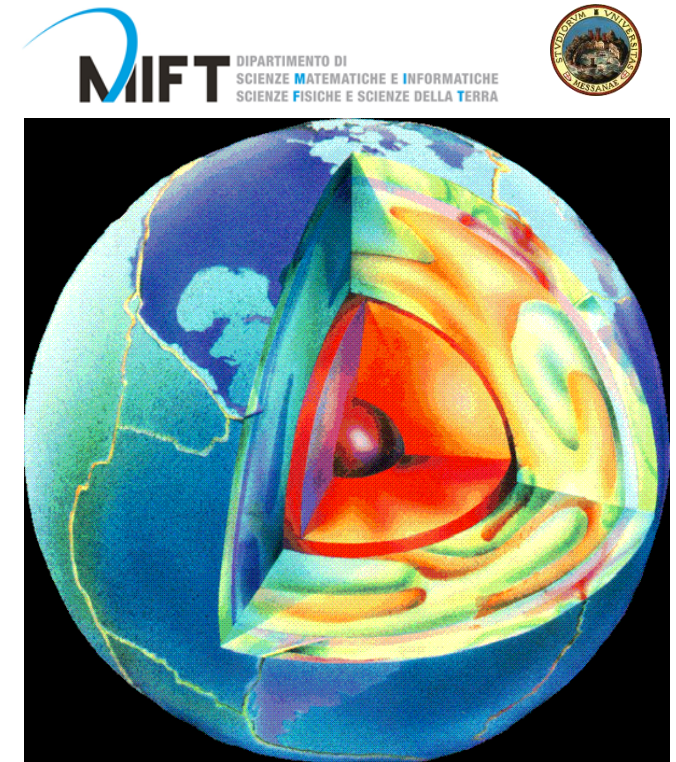
Department of Mathematics, Informatics, Physics and Earth Sciences  
Viale F. Stagno d'Alcontres, 31  
98166 Messina, ITALY

## Scientific Coordinator

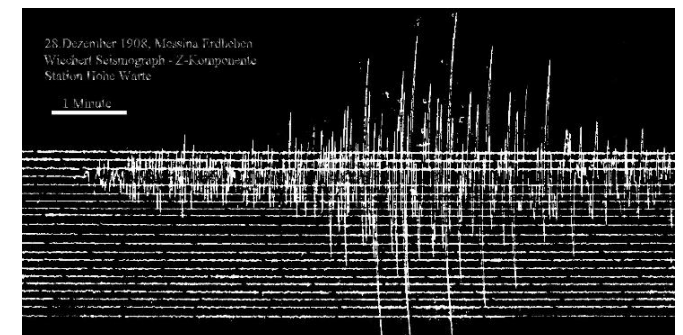
*Prof. Giancarlo Neri*  
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<https://www.unime.it/it/persona/giancarlo-neri>  
<https://www.unime.it/it/dipartimenti/mift/research-team-%e2%80%9cgeophysical-sciences%e2%80%9d>

## Contacts and useful links

[giancarlo.neri@unime.it](mailto:giancarlo.neri@unime.it)  
<https://www.unime.it/it/cds/geophysical-sciences-for-seismic-risk>  
[foreignstudents@unime.it](mailto:foreignstudents@unime.it)  
[uopwelcomeoffice@unime.it](mailto:uopwelcomeoffice@unime.it)



## MASTER'S DEGREE COURSE IN 'GEOPHYSICAL SCIENCES FOR SEISMIC RISK'



## ‘Geophysical Sciences for Seismic Risk’

### Code LM-79 (Geophysical Sciences)

This Master’s Degree Course will prepare specialists in Geophysics and Geology playing roles of responsibility in different fields of private and public administrations, such as consulting, academic, government and local State administration. The Course will furnish major skills in the field of seismic risk mitigation allowing the future graduate to work in synergy with Civil Engineers, Land planners, Civil Protection Officers. Based on the existing cooperation and mobility with other Universities of nearby countries, major attention will be paid to seismic risk of the Mediterranean region.



Messina 1908 earthquake

This advanced course in Geophysics awards a M. Sc. Degree on 120 ECTS (European Credit Transfer System) and it is fully taught in English.

The course runs for 2 years and in the end the students will debate a dissertation on advanced topics in geophysics and geology.



Laboratory and field activities will play a basic role in the formation. The Master’s Degree Course will furnish different opportunities, such as:

UNIME, <http://cerisi.unime.it/en.html>

<https://www.unime.it/it/dipartimenti/mift/laboratori-area-ricerca>

INGV, Catania, <http://www.ct.ingv.it/en/>

CRUST, <https://www.crust.unich.it/>

### ORGANIZATION OF TEACHING ACTIVITY

FIRST YEAR	
First Period	Second Period
Physics of environmental processes	Laboratory of Seismic Data Processing and Field Campaign
Applied Geology	Environmental Geology
Applied Petrography	Physics for cultural heritage protection
Advanced algorithms for scientific computing	Geophysical methods for solid and fluid Earth investigation Mod.A- Geophysical Observation Methods and Remote Sensing
Additional language skills	Mod.B- Oceanography and Ocean Hazard
SECOND YEAR	
Prevention of earthquake disasters Mod.A- Seismic monitoring and surveillance Mod.B- Seismic Risk	Student choice disciplines and/or activities
Dynamics of structures	Training course
Seismo-induced Chemical Risk	Thesis

Specialization on specific topics (e.g., Seismic surveillance, structural geology, geological and geophysical knowledge for Civil Engineering) can be pursued by the student in the framework of the “Student choice activities” and/or “Training course” and/or “Thesis”. In particular, the student can decide to work with the support of Unime teachers and researchers on the topic of seismic risk in his/her country or region of origin.