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.

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

https://www.unime.it/it/dipartimenti/mift/servizi-e-strutture/laboratori
CRUST, https://www.crust.unich.it/

ORGANIZATION OF TEACHING ACTIVITY

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Second Period</th>
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<tr>
<td><strong>First Period</strong></td>
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<tr>
<td>Physics of environmental processes</td>
<td>Geophysical tools Mod.A - Geophysical Observation Methods and Remote Sensing Mod.B – Tsunami Risk</td>
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<td>Earthquake Geotechnical Engineering</td>
<td>Environmental Geology</td>
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<td>Prevention of earthquake disasters Mod.A - Seismic monitoring and surveillance Mod.B - Seismic Risk</td>
<td>Earth shallow structure and seismic response Mod.A- Active and Passive Seismology Mod.B - Laboratory of Seismic Data Processing and Field Campaign</td>
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<td>Additional language skills</td>
<td>Fundamentals and Applications of Petrology</td>
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<th>SECOND YEAR</th>
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<td><strong>First Period</strong></td>
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<tr>
<td>Applied Geology and Land Use / Quaternary geology and active tectonics</td>
<td>Student choice disciplines and/or activities</td>
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<td>Dynamics of structures</td>
<td>Training course</td>
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<td>Physics for cultural heritage protection</td>
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<tr>
<td>Seismo-induced Chemical Risk</td>
<td>Thesis</td>
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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 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.
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. For useful information and scholarship opportunities:
https://international.unime.it/
https://www.unime.it/it/cds/geophysical-sciences-for-seismic-risk
https://www.universitaly.it/index.php/
https://studyinitaly.esteri.it/en/home_borse

Location
Department of Mathematics, Informatics, Physics and Earth Sciences (MIFT)
Viale F. Stagno d’Alcontres, 31
98166 Messina, ITALY

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https://www.unime.it/it/persona/debora-presti/curriculum

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MASTER’S DEGREE COURSE IN
GEOPHYSICAL SCIENCES
FOR SEISMIC RISK