



# UNIVERSITÀ DEGLI STUDI DI PALERMO

**Department: Earth and sea sciences**

**A.Y. 2017/2018**

**DEGREE COURSE IN GEOLOGY**

**- GEOLOGICAL SCIENCES -**

## **Educational objectives**

The 1st cycle degree course in geology aims at providing students with basic groundings in Earth Sciences, constituting a valid support to field and laboratory operations and to the reading and interpretation of technical-scientific papers. Such a training, open to further refinements in higher level courses (2nd cycle Degrees, University Master Courses, PhDs) enables graduates to fit in work and professional activities.

The specific objectives are related to the creation of competences in the field of Earth Sciences and namely the acquisition of basic geological knowledge, of the tools and methods for geological, geomorphological, geochemical, mineralogical-petrographic, geophysical and applied geological research, through laboratory and field activities.

The educational activities include:

- Lectures, theoretical and practical exercises, laboratory practice, field practice. Each activity will be awarded with an adequate amount of credits;
- Seminars, group works, technical visits and internship in external public or private facilities: agencies, laboratories, companies, professional offices, yards;
- Stays in other Italian and foreign university, under international agreements too.

## **Professional opportunities**

The professional profile trained through this degree course is a technician with competences and operating skills in the following areas:

- Geotechnical and geological diagnostic businesses, companies and professional offices;
- Agencies in the field of oil research, water, geothermal, mineral and industrial research;
- Regional agencies for environment protection and for the search for sustainable energy sources;
- Regional agencies for the prevention and mitigation of geological risks (volcanic, seismic, hydrogeological risk) and environmental risks (pollution, town and industrial waste disposal);
- Regional agencies for cultural heritage upgrading, or for the management of natural science museums;
- industry of ceramics, refractory materials, ornamental stones, cement, glass and gems;
- Testing laboratories and certification of geological materials;
- Universities and public and private research institutions as qualified technicians

## **Final examination features**

To obtain the degree, students must have acquired all the credits required by the curriculum of the Degree Course in Geology (180) with the exception of the credits of the final test (3), which are acquired at the time of testing. The final test is intended to verify not only the level of maturity achieved by the student on completion of the degree program, but also the specific professional skills. The final examination consists of a written or oral test, in accordance with the rules fixed every year by the Degree Course Regulations for the final examination, respecting and consistent to the calendar, the ministerial requirements and to the relevant Guidelines of the University.

Subjects 1° year	CFU	Per	V\W	SSD	TAF
16461 - GENERAL AND INORGANIC CHEMISTRY WITH ELEMENTS OF ENVIRONMENTAL CHEMISTRY - INTEGRATED COURSE	11	1	V \ 1		
- ELEMENTS OF ENVIRONMENTAL CHEMISTRY <i>Maccotta(RU)</i>	3	1		CHIM/12	C
- GENERAL AND INORGANIC CHEMISTRY <i>Casella(RU)</i>	8	1		CHIM/03	A
10700 - GEOINFORMATICS <i>Madonia(PC)</i>	6	1	V \ 1	INF/01	A
04872 - MATHEMATICS <i>Frusteri(PC)</i>	9	1	V \ 1	MAT/03	A

Legenda: Per. = periodo o semestre, Val. = Valutazione (V=voto, G=giudizio), TAF= Tipologia Attività Formativa (A=base, B=caratterizzante, C=Affine, S=stages, D=a scelta, F=altre)

Subjects 1 ° year	CFU	Per	V\W	SSD	TAF
09635 - MINERALOGY WITH LABORATORY <i>Merli(PA)</i>	9	1	V \ 1	GEO/06	A
18598 - PHYSICAL GEOGRAPHY AND GIS - INTEGRATED COURSE	9	1	V \ 1		
- GEOGRAPHIC INFORMATION SYSTEM <i>Rotigliano(PO)</i>	3	1		GEO/04	C
- PHYSICAL GEOGRAPHY <i>Rotigliano(PO)</i>	6	1		GEO/04	B
08557 - PHYSICS <i>Vetri(PA)</i>	9	1	V \ 1	FIS/07	A
03043 - FIELD TRIPS - I YEAR	1	1	G \ 0		F
04677 - ENGLISH LANGUAGE	6	1	G \ 0		E

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Subjects 2 ° year	CFU	Per	V\W	SSD	TAF
03694 - GEOMORPHOLOGY WITH LABORATORY <i>Di Maggio(PA)</i>	9	1	V \ 1	GEO/04	B
03596 - GEOPHYSICS <i>Martorana(PA)</i>	6	1	V \ 1	GEO/11	B
17820 - STRATIGRAPHIC AND SEDIMENTARY GEOLOGY <i>Di Stefano(PO)</i>	9	1	V \ 1	GEO/02	A
03041 - FIELD TRIPS - II YEAR	2	1	G \ 0		F
18788 - GEOCHEMISTRY AND VOLCANOLOGY <i>Aiuppa(PO)</i>	9	2	V \ 1	GEO/08	B
05509 - PALAEOONTOLOGY WITH LABORATORY <i>Di Stefano(PO)</i>	9	2	V \ 1	GEO/01	B
05674 - PETROGRAPHY WITH LABORATORY <i>Rotolo(PO)</i>	9	2	V \ 1	GEO/07	B
Free subjects	6				D

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Subjects 3 ° year	CFU	Per	V\W	SSD	TAF
16171 - GEORESOURCES <i>Montana(PA)</i>	6	1	V \ 1	GEO/09	C
11817 - GEOTECHNICS <i>Cafiso(PC)</i>	6	1	V \ 1	ICAR/07	C
19294 - TECTONICS AND REGIONAL GEOLOGY <i>Sulli(PO)</i>	9	1	V \ 1	GEO/02	B
13351 - COMPETENCES RELATED TO THE LABOUR MARKET	6	1	G \ 1		F
13121 - PRACTICE	8	1	G \ 0		F
19402 - APPLIED GEOLOGY <i>Cappadonia(RD)</i>	6	2	V \ 1	GEO/05	B
06278 - GEOLOGICAL SURVEY - INTEGRATED COURSE	9	2	V \ 1		
- GEOLOGICAL SURVEY <i>Pepe(PA)</i>	6	2		GEO/02	B
- GEOLOGICAL SURVEYING FIELD <i>Pepe(PA)</i>	3	2		GEO/02	C
03042 - FIELD TRIPS - III YEAR	2	2	G \ 0		F
05917 - FINAL EXAMINATION	3	2	V \ 1		E
Free subjects II	6				D

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## PROPAEDEUTICAL TEACHINGS

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