UNIVERSITÀ DEGLI STUDI DI PALERMO

Department: Earth and sea sciences

A.Y. 2014/2015

DEGREE COURSE IN GEOLOGY

- GEOLOGICAL SCIENCES -

Characteristics

Class of Bachelor's Degree (BSc) on Earth sciences (L-34)	3 YEARS	PALERMO	PLANNED ACCESS	2126

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 and 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

The final examination consists of the presentation and discussion of a written paper prepared under the guidance of a supervisor. The paper, which might be an experimental one, must be related to issues related to class specific subjects and their application. The final examination might be related to field and/or internship activities. The quality of the paper will be evaluated for the expression of the final mark.

Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
16461 - GENERAL AND INORGANIC CHEMISTRY WITH ELEMENTS OF ENVIRONMENTAL CHEMISTRY - INTEGRATED COURSE	9	1	V		
- ELEMENTS OF ENVIRONMENTAL CHEMISTRY Maccotta(RU)	*3*	*1*		*CHIM/12*	*C*

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	Sem.	Val.	SSD	TAF
- GENERAL AND INORGANIC CHEMISTRY *Casella(RU)*	*6*	*1*		*CHIM/03*	*A*
04872 - MATHEMATICS *Ugaglia(PA)*	9	1	V	MAT/03	A
11719 - PHYSICAL GEOGRAPHY *Rotigliano(PO)*	6	1	V	GEO/04	B
10700 - GEOINFORMATICS *Madonia(PC)*	6	2	V	INF/01	A
09635 - MINERALOGY WITH LABORATORY *Merli(PA)*	9	2	V	GEO/06	A
08557 - PHYSICS *Vetri(PO)*	9	2	V	FIS/07	A
04677 - ENGLISH LANGUAGE	3	2	G		E
	51				

Subjects 2 ° year	CFU	Sem.	Val.	SSD	TAF
03334 - EARTH PHYSICS *Luzio(PQ)*	6	1	V	GEO/11	B
16673 - GEOLOGY I WITH LABORATORY *Di Stefano(PO)*	9	1	V	GEO/02	A
05509 - PALAEONTOLOGY WITH LABORATORY *Di Stefano(PO)*	9	1	V	GEO/01	B
03589 - GEOCHEMISTRY WITH LABORATORY *Valenza(PO)*	6	2	V	GEO/08	B
06278 - GEOLOGICAL SURVEY - INTEGRATED COURSE	9	2	V		
- CARTOGRAPHY AND SURVEYING TECHNIQUE WORKSHOP *Pepe(PA)*	*6*	*2*		*GEO/02*	*B*
- GEOLOGICAL SURVEYING FIELD *Pepe(PA)*	*3*	*2*		*GEO/02*	*C*
03694 - GEOMORPHOLOGY WITH LABORATORY *Di Maggio(PA)*	9	2	V	GEO/04	B
05674 - PETROGRAPHY WITH LABORATORY *Rotolo(PO)*	9	2	V	GEO/07	B
Free subjects	6				D
	63				

Subjects 3 ° year	CFU	Sem.	Val.	SSD	TAF
09527 - GEOLOGY II WITH LABORATORY *Sulli(PO)*	9	1	V	GEO/02	B
16171 - GEORESOURCES *Montana(PA)*	6	1	V	GEO/09	C
10118 - VOLCANOLOGY AND VOLCANIC RISK *Aiuppa(PO)*	6	1	V	GEO/08	B
13351 - ADVANCED SKILLS RELATED TO THE LABOUR MARKET	9	1	G		F
13121 - PRACTICE	6	1	G		F
17696 - APPLIED GEOLOGY - INTEGRATED COURSE	9	2	V		
- APPLIED GEOGRAPHY AND HYDROGEOLOGY *Monteleone(CU)*	*6*	*2*		*GEO/04*	*B*
- APPLIED GEOLOGY - LABORATORY *Monteleone(CU)*	*3*	*2*		*GEO/04*	*C*
03599 - APPLIED GEOPHYSICS WITH LABORATORY *Capizzi(RD)*	6	2	V	GEO/11	B

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Subjects 3 ° year	CFU	Sem.	Val.	SSD	TAF
17521 - ELEMENTS OF SEDIMENTARY SEDIMENTOLOGY AND PETROGRAPHY	6	2	V		
- SEDIMENTARY PETROGRAPHY *Scopelliti(PA)*	*3*	*2*		*GEO/07*	*C*
- SEDIMENTOLOGY *Agate(PA)*	*3*	*2*		*GEO/02*	*C*
05917 - FINAL EXAMINATION	3	2	G		E
Free subjects II	6				D
	66				

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