UNIVERSITÀ DEGLI STUDI DI PALERMO

Department: Earth and sea sciences

A.Y. 2016/2017

DEGREE COURSE IN GEOLOGY

- GEOLOGICAL SCIENCES -

Characteristics

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

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	Sem.	Val.	SSD	TAF
16461 - GENERAL AND INORGANIC CHEMISTRY WITH ELEMENTS OF ENVIRONMENTAL CHEMISTRY - INTEGRATED COURSE	11	1	V		

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
- ELEMENTS OF ENVIRONMENTAL CHEMISTRY *Maccotta(RU)*	*3*	*1*		*CHIM/12*	*C*
- GENERAL AND INORGANIC CHEMISTRY *Casella(RU)*	*8*	*1*		*CHIM/03*	*A*
04872 - MATHEMATICS *Spilla(PC)*	9	1	V	MAT/03	A
18598 - PHYSICAL GEOGRAPHY AND GIS - INTEGRATED COURSE	9	1	V		
- GEOGRAPHIC INFORMATION SYSTEM *Rotigliano(PO)*	*3*	*1*		*GEO/04*	*C*
- PHYSICAL GEOGRAPHY *Rotigliano(PO)*	*6*	*1*		*GEO/04*	*B*
04677 - ENGLISH LANGUAGE	4	1	G		E, F
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
03043 - FIELD TRIPS - I YEAR	1	2	G		F
	58				

Subjects 2 ° year	CFU	Sem.	Val.	SSD	TAF
03334 - EARTH PHYSICS *Martorana(PA)*	6	1	V	GEO/11	B
16673 - GEOLOGY I WITH LABORATORY *Di Stefano(PO)*	9	1	V	GEO/02	A
03694 - GEOMORPHOLOGY WITH LABORATORY *Di Maggio(PA)*	9	1	V	GEO/04	B
18788 - GEOCHEMISTRY AND VOLCANOLOGY *Aiuppa(PO)*	9	2	V	GEO/08	B
05509 - PALAEONTOLOGY WITH LABORATORY *Di Stefano(PO)*	9	2	V	GEO/01	B
05674 - PETROGRAPHY WITH LABORATORY *Rotolo(PO)*	9	2	V	GEO/07	B
03041 - FIELD TRIPS - II YEAR	2	2	G		F
Free subjects (suggested)	6				D
	59				

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
13351 - ADVANCED SKILLS RELATED TO THE LABOUR MARKET	6	1	G		F
13121 - PRACTICE	8	1	G		F
17696 - APPLIED GEOLOGY - INTEGRATED COURSE	9	2	V		
- APPLIED GEOGRAPHY AND HYDROGEOLOGY *Monteleone(CU)*	*6*	*2*		*GEO/05*	*B*
- APPLIED GEOLOGY - LABORATORY *Cappadonia(PA)*	*3*	*2*		*GEO/05*	*C*
17521 - ELEMENTS OF SEDIMENTARY SEDIMENTOLOGY AND PETROGRAPHY	6	2	V		

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Subjects 3 ° year	CFU	Sem.	Val.	SSD	TAF
- SEDIMENTARY PETROGRAPHY *Scopelliti(PA)*	*3*	*2*		*GEO/07*	*C*
- SEDIMENTOLOGY *Agate(PA)*	*3*	*2*		*GEO/02*	*C*
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*
03042 - FIELD TRIPS - III YEAR	1	2	G		F
05917 - FINAL EXAMINATION	3	2	V		E
Free subjects II	6				D
	63				

OPTIONAL SUBJECTS

Free subjects (suggested)	CFU	Sem.	Val.	SSD	TAF
02914 - PRINCIPLES OF SEISMOLOGY *D'Alessandro(PC)*	6	1	V	GEO/11	D

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