

Faculty of Geology
Complutense University of Madrid

**UNDERGRADUATE PROGRAMME IN
ENGINEERING GEOLOGY**



Studies Code 0879

ACADEMIC SCHEDULE (*)

First Course

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1º	804331	PHYSICS I	6	5	0
	804333	GENERAL GEOLOGY	6	4,5	1
	804335	MATHEMATICS I	6	5	0
	804338	CHEMISTRY	6	5	0
	804351	TOPOGRAPHY	6	4,5	1
			30		
2º	804334	CRYSTALLOGRAPHY AND MINERALOGY	9	7,5	0
	804330	GRAPHIC REPRESENTATION	9	7,5	0
	804332	PHYSICS II	6	5	0
	804336	MATHEMATICS II	6	5	0
			30		
		TOTAL 1ST	60		

Second course

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1º	804341	GEOMORPHOLOGY	6	4,5	1
	804340	STRUCTURAL GEOLOGY	6	4,5	1
	804347	HYDRAULICS	6	5	0
	804349	MECHANICS OF CONTINUOUS MEDIA	6	5	0
	804344	SEDIMENTARY PETROLOGY	6	4,5	1
			30		
2º	804339	STRATIGRAPHY	6	4,5	1
	804337	NUMERICAL METHODS	6	5	0
	804342	PALAEONTOLOGY	6	4,5	1
	804343	IGNEOUS AND METAMORPHIC PETROLOGY	6	4,5	1
	804350	THEORY OF STRUCTURES	6	5	0
			30		
		TOTAL 2ND	60		

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Third course

Semester	Code	Course Title	ECTS Credits	hours/ week	Field Days
1º	804348	BUILDING MATERIALS	9	6	3
	804360	APPLIED GEOPHYSICS	6	4,5	1
	804356	MINERAL AND ENERGETIC RESOURCES	6	4	2
	804362	GIS (GEOGRAPHIC INFORMATION SYSTEMS) AND REMOTE SENSING	4,5	4,5	0
	804358	TECTONICS, SEISMOLOGY AND SEISMIC ENGINEERING	6	4,5	1
			31,5		
2º	804345	GEOLOGICAL MAPPING	6	3	5
	804355	SOIL MECHANICS	6	4,5	1
	804361	ENVIRONMENTAL AND APPLIED GEOCHEMISTRY	6	4,5	1
	804363	DRILLING AND BOREHOLES	6	4,5	1
	804359	ECONOMY AND ENTERPRISE MANAGEMENT	4,5	4,5	0
			28,5		
		TOTAL 3rd	60		
		TOTAL 1º 2º 3º	180		

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Fourth course^(*)

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1 ^o	804357	ENVIRONMENTAL GEOLOGY AND GEOLOGIC RISKS	6	4,5	1
	804353	GEOTECHNICAL ENGINEERING	6	4,5	1
	804352	HYDROGEOLOGY	6	4,5	1
	804354	ROCK MECHANICS	6	4,5	1
	804374	PROJECTS	4,5		
			28,5		
Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
	804346	FIELD GEOLOGY	6	2	7
	804364	GEOLOGY OF SPAIN	4,5	2	4
		OPTIONAL SUBJECT 1	4,5		
		OPTIONAL SUBJECT 2	4,5		
		OPTIONAL SUBJECT 3	4,5		
	804375	FINAL GRADE PROJECT	7,5		
			31,5		
		TOTAL 4th	60		

(*) The optional subjects which are offered may vary every academic year.

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Optional Subjects

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
	804365	GEOLOGIC-GEOTECHNICAL CONTROL AND GROUND AUSCULTATION	4,5		
	804366	COASTAL DYNAMICS	4,5		
	804367	ADVANCED TECHNICAL ENGLISH	4,5		
	804368	LAWS AND REGULATIONS IN GEOLOGY	4,5		
	804369	PRACTICUM	4,5		
	804370	MINERAL IDENTIFICATION TECHNIQUES	4,5		
	804371	MICRO PALEONTOLOGICAL TECHNIQUES USED IN BOREHOLES	4,5		
	804372	APPRAISAL AND RESTORATION OF MINING WORKS	4,5		
	804373	BLASTING	4,5		