

Faculty of Geology
Complutense University of Madrid

**UNDERGRADUATE PROGRAMME IN
GEOLOGY**



Studies Code 0809

ACADEMIC SCHEDULE (*)

First Course

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1 ^o	800740	BIOLOGY	6	4,5	1
	800741	GRAPHIC AND CARTOGRAPHIC REPRESENTATION	6	5	0
	800743	MATHEMATICS I	6	5	0
	800746	PRINCIPLES OF GEOLOGY I	6	4	2
	800742	CHEMISTRY	6	5	0
			30	23,5	3
2 ^o	800748	CRYSTALLOGRAPHY	7,5	6	0
	800745	PHYSICS	6	5	0
	800744	MATHEMATICS II	6	5	0
	800747	PRINCIPLES OF GEOLOGY II	6	4	2
	800749	INTRODUCTION TO FIELD GEOLOGY	4,5	1,5	6
			30	21,5	8
		TOTAL 1ST	60		11

Second course

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1 ^o	800750	GEOCHEMISTRY	6	5	0
	800752	EXTERNAL GEODYNAMICS	6	4	2
	800753	STRUCTURAL GEOLOGY	7,5	5	3
	800756	MINERALOGY I	7,5	6	0
			27	20	5
2 ^o	800751	GEOPHYSICS	6	5	0
	800754	STRATIGRAPHY	7,5	5	3
	800755	PALAEONTOLOGY	7,5	5	3
	800757	MINERALOGY II	7,5	5,5	1
	800758	GEOLOGICAL MAPPING I	4,5	2	4
			33	22,5	11
		TOTAL 2ND	60		16

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Third course

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1º	800759	GEOMORPHOLOGY	6	4	2
	800760	APPLIED PALAEONTOLOGY	7,5	5	3
	800763	IGNEOUS PETROLOGY	7,5	5	3
	800764	SEDIMENTARY PETROLOGY I	6	4	2
			27	18	10
2º	800761	SEDIMENTARY ENVIRONMENTS	7,5	5	3
	800762	TECTONICS	7,5	5	3
	800765	METAMORPHIC PETROLOGY	7,5	5	3
	800766	SEDIMENTARY PETROLOGY II	6	4	2
	800767	GEOLOGICAL MAPPING II	4,5	0,5	8
			33	19,5	19
		TOTAL 3rd	60		29
		TOTAL 1º 2º 3º	180		56

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Fourth course^(*)

Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
1 ^o	800768	ENVIRONMENTAL IMPACT ASSESSMENT AND LAND USE PLANNING (A)	4,5	3,5	1
	800784	BASEMENT GEOLOGY (C)	4,5	1,5	5
	800785	HISTORICAL AND REGIONAL GEOLOGY (C)	6	5	0
	800770	HYDROGEOLOGY (A)	6	4,5	1
	800786	INDUSTRIAL MINERALS AND ROCKS (C)	6	4	2
	800774	APPLIED GEOPHYSICS (B)	4,5	4	0
	800776	PROJECTS (B)	4,5	4	0
	800773	MINERAL RESOURCES (A)	6	3,5	3
	800778	DRILLING AND BOREHOLES (B)	4,5	3,5	1
	800788	VOLCANISM (C)	4,5	1,5	5
Semester	Code	Course Title	ECTS Credits	hours/week	Field Days
2 ^o	800781	BASIN ANALYSIS (C)	4,5	2,5	3
	800782	FIELD GEOLOGY (C)	7,5	2	10
	800783	THE GEOLOGY OF MINING EXPLOITATIONS (C)	4,5	3	2
	800769	ENVIRONMENTAL GEOCHEMISTRY AND GEOCHEMICAL PROSPECTION (A)	4,5	4	0
	800771	ENGINEERING GEOLOGY (A)	6	4	2
	800787	STRATIGRAPHIC PALAEOONTOLOGY (C)	4,5	3,5	1
	800775	PALAEOONTOLOGICAL PROSPECTION (B)	4,5	1,5	5
	800772	ENERGETIC RESOURCES (A)	6	5	0
	800777	GIS (GEOGRAPHIC INFORMATION SYSTEMS) & REMOTE SENSING (B)	4,5	4	0
	800779	MINERAL CHARACTERIZATION TECHNIQUES (B)	4,5	4	0

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ANNUAL	800780	PRACTICUM (C)	6		
ANNUAL	800789	FINAL GRADE PROJECT	9		

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

It is necessary to successfully pass at least 51 ECTS, accomplishing the distribution of the professional module:

<u>Module</u>	<u>Offered</u>	<u>Requested</u>
(A) Applied geology	33 ECTS	15 ECTS
(B) Geological Techniques	27 ECTS	9 ECTS
(C) Enhancement in Geology	42 ECTS	NO REQUEST