

## First Year

### Compulsory courses

CHIM0004-2	<i>Analytical chemistry</i> - Bernard GILBERT	30	50	-	7
GEOL0205-2	<i>Micropaleontology</i> - Emmanuelle JAVAUX - [2d FW]	20	30	[+]	4
GEOG0202-1	<i>Introduction to geographical information systems (GIS)</i> - Jean-Paul DONNAY	15	15	-	3
GEOL0018-1	<i>Sedimentology and sedimentary petrology</i> - Frédéric BOULVAIN	30	30	-	5
GEOL0071-2	<i>Evolution of the biosphere</i> - Edouard POTY	20	-	-	2
GEOL0029-1	<i>Tectonics</i> - Olivier BOLLE	30	30	-	5
GEOL0020-3	<i>Mineral resources</i> - Eric PIRARD	20	20	-	4
MINE0201-1	<i>Mineralogy and X-ray Crystallography</i> - André-Mathieu FRANSOLET	30	40	-	6
GEOL0016-1	<i>Magmatic and metamorphic petrology (partim 1)</i> - Jacqueline VANDER AUWERA - [5d FW]	30	50	[+]	11
GEOL0206-1	<i>Geochemistry</i> - Jacqueline VANDER AUWERA	15	15	-	3
GEOL0233-1	<i>Regional Geology</i> - [6d FW]	15	-	[+]	5
GEOL0207-3	<i>Fieldwork related to different courses</i> - [4d FW]	-	-	[+]	4
GEOL0208-1	<i>Travail personnel</i> - Annick ANCEAU	-	15	-	1

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GEOL0013-1	<i>Hydrogeology</i> - Alain DASSARGUES	25	25	-	2
GEOL0021-5	<i>Applied Geophysics</i> - Frédéric NGUYEN - [3d FW]	25	15	[+]	3
GEOL0209-1	<i>Isotopic geochemistry</i> - Jacqueline VANDER AUWERA	20	-	-	1
GEOL0073-1	<i>Geological surveying</i> - Hans-Balder HAVENITH - [30d FW]	-	-	[+]	9
GEOL0210-1	<i>Fieldwork in foreign countries Holder</i> - Frédéric BOULVAIN, Nathalie FAGEL, André-Mathieu FRANSOLET, Emmanuelle JAVAUX, Edouard POTY, Jacqueline VANDER AUWERA - [10d FW]	-	-	[+]	5
GEOG0212-1	<i>Pedology - N... - Suppl : Patrick ENGELS</i> - [1d FW]	15	8	[+]	2
GEOL0212-1	<i>Professional Work Experience</i> - Frédéric BOULVAIN, André-Mathieu FRANSOLET, Emmanuelle JAVAUX, Edouard POTY, Jacqueline VANDER AUWERA - [40h Internship]	-	-	[+]	3
GEOL0213-1	<i>Geodynamics - N... - Suppl : Jean-Paul LIÉGEOIS</i>	15	-	-	1
GEOL0100-1	<i>Environmental Geology</i> - Alain DASSARGUES, Frédéric NGUYEN	20	20	-	2

### Option cours

Students are asked to choose 8 ECTS from the following 5 modules, other Faculty of Science programmes, or other Faculties :

#### Module Geo-resources

GEOL0217-1	<i>Metallogeny</i> - Michel GAUTHIER	30	-	-	2
GEOL0229-1	<i>Oil geology</i> - Pierre CORNET	15	15	-	2
GEOL0022-2	<i>Metallogenic process</i> - J. VERKAEREN	15	-	-	2
GEOL0059-1	<i>Further Study of Mineral Resources</i> - Eric PIRARD	10	10	-	2
GEOL0214-1	<i>Sedimentary deposits</i> - Edouard POTY - [2d FW]	15	15	[+]	2
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications</i> - Michel EVERAERTS	15	15	-	2

#### Geology and Environment Module

GEOL0215-1	<i>Clay Geology</i> - Nathalie FAGEL	15	15	-	2
GEOL0023-2	<i>Geology for Engineers</i> - Frédéric NGUYEN - [3d FW]	25	25	[+]	3
GEOL0238-1	<i>Groundwater production, protection and remediation</i> - Alain DASSARGUES	15	15	-	2
SPOL2209-3	<i>Policy off durable development</i> - Quentin MICHEL	30	-	-	2
GEOL0251-2	<i>Geochemical modelling and global changes in the past</i> - Louis FRANÇOIS	15	15	-	2

#### Paleontology module

GEOL0218-1	<i>The principles and methods of evolution</i> - Edouard POTY	15	-	-	2
GEOL0219-1	<i>special topics in Micropaleontology and palynology Holder</i> - Emmanuelle JAVAUX - [2d FW]	15	15	[+]	2

GEOL0220-1	<i>Cainozoic Stratigraphy</i> - Emile ROCHE	15	-	-	2
GEOL0221-1	<i>Quaternary Palynology</i> - Louis LECLERCQ	15	15	-	2

#### Sedimentology module

GEOL0222-1	<i>Further sedimentary petrology</i> - Frédéric BOULVAIN	15	15	-	2
GEOL0223-1	<i>Supplements to Tectonics</i> - Olivier BOLLE	15	15	-	2
GEOL0224-1	<i>Continental Paleoclimatology</i> - Nathalie FAGEL	15	15	-	2
<b>Mineralogy - Endogenous Petrology</b>					
GEOL0225-2	<i>Analytical Geochemistry</i> - Nathalie FAGEL, Jacqueline VANDER AUWERA	20	-	-	2
GEOL0226-1	<i>Magmatic and metamorphic petrology (partim 2)</i> - Jacqueline VANDER AUWERA	20	30	-	3
GEOL0227-1	<i>Modelling Magmatic and Metasomatic Parageneses</i> - Jacqueline VANDER AUWERA	15	15	-	2
GEOL0228-1	<i>Crystalchemistry of rock-forming minerals</i> - André-Mathieu FRANSOLET	20	-	-	2
SMEM0007-1	<i>Mémoire</i>	-	-	-	24