

One-year master program

Access conditions to the Master 60 (http://www.ulg.ac.be/cms/c_46063/master-en-sciences-geologiques)

Compulsory courses

GEOL0301-1	<i>Cartography and geomodelling (personnal work)</i> - HansBalder HAVENITH - [15d FW]	10	30	[+]	10
GEOL0268-2	<i>Introduction to Research</i> - Annick ANCEAU	20	20	-	3
SMEM0021-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	17

Optional courses

Choose, in agreement with the Board of Studies, several courses totalling 30 ECTS, from the following :

Geology

Courses held in even years :

GEOL0296-1	<i>Clays and environment</i> - Nathalie FAGEL (Even years)	15	15	-	4
GEOL0263-1	<i>Astrobiology</i> - Philippe CLAEYS, Véronique DEHANT, Moreno GALLEN, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	30	15	-	5
GEOL0214-1	<i>Sedimentary deposits</i> - Edouard POTY - [2d FW] (Even years)	15	15	[+]	4
GEOL0302-1	<i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years)	20	30	-	5
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	15	15	-	4

Courses held in odd years :

GEOL0224-2	<i>Paleoclimatology</i> - Nathalie FAGEL - [1d FW] (Odd years)	15	15	[+]	4
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)	30	-	-	4
GEOL0218-1	<i>The principles and methods of evolution</i> - Edouard POTY (Odd years)	15	-	-	3
GEOL0220-1	<i>Cainozoic Stratigraphy</i> - Emile ROCHE (Odd years)	15	-	-	3
GEOL0298-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE, Philippe ORBAN (Odd years)	15	15	-	4
GEOL0294-1	<i>Paleoalterations in geological times</i> - Johan YANS - [1d FW] (Odd years)	12	12	[+]	4
GEOL0303-1	<i>Geomagnetism and environmental magnetism (english language)</i> - AnneChristine DA SILVA (Odd years)	15	5	-	3

Courses organized each year :

GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology (english language)</i> - HansBalder HAVENITH - [2d FW]	25	15	[+]	4
GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	15	15	-	3
GEOL1022-2	<i>Evolution of the biosphere in the Precambrian</i> - Emmanuelle JAVAUX	20	10	-	3
GEOL0099-1	<i>Phanerozoic biosphere evolution</i> - Edouard POTY - [2d FW]	20	-	[+]	4
GEOL0305-1	<i>Paleoecology</i> - Bernard MOTTEQUIN, Edouard POTY	20	-	-	3
GEOL0221-1	<i>Quaternary Palynology</i> - Mona COURTPICON, N...	15	15	-	4
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [1d FW]	15	8	[+]	3
SPAT0027-4	<i>Climate change and impacts</i> - Louis FRANÇOIS, Guy MUNHOVEN	15	15	-	4
CLIM0009-1	<i>Biogeochemical cycle modelling and global changes</i> - Louis FRANÇOIS	20	20	-	4
SPAT0054-1	<i>Astrophysics and astrochemistry</i> - Michaël DE BECKER	15	5	-	3
GEOL0282-1	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	20	20	-	4
GEOL0255-2	<i>Geological oceanography</i> - Nathalie FAGEL - [1d FW]	20	20	[+]	4
GEOL0225-3	<i>Analytical Geochemistry</i> - Nathalie FAGEL	10	10	-	3
GEOL0256-1	<i>Geochemistry of sediments and interstitial water</i> - Nathalie FAGEL	15	15	-	4
GEOL0213-1	<i>Geodynamics</i> - N... - Suppl : JeanPaul LIÉGEOIS	15	-	-	3
GEOL0209-1	<i>Isotopic geochemistry and geochronology</i> - Jacqueline VANDER AUWERA	20	-	-	3
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	15	-	-	3
GEOL1027-1	<i>Analytical mineralogy</i> - Frédéric HATERT	15	15	-	3
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications</i> - Michel EVERAERTS	15	15	-	4
GCIV0620-1	<i>Introduction to geotechnics</i> - Robert CHARLIER, JeanPol RADU - [1d FW]	30	20	[+]	5
GEOL0020-6	<i>Mineral resources</i> - Eric PIRARD	30	30	-	5
MINE0005-1	<i>Mine and Quarry Working</i> - Jacques TACK	20	-	-	3
GEOL0023-2	<i>Engineering geology (integrated project)</i> - Frédéric NGUYEN - [3d FW]	25	25	[+]	5
GEOL1021-1	<i>Introduction to geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]	30	30	[+]	6
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [2d FW]	20	20	[+]	5

GEOL0306-1	<i>Techniques for extracting non-conventional hydrocarbons</i> - Xavier LIMPENS	15	-	-	3
GEOL0307-1	<i>Geology of hydrocarbons</i> - Pierre CORNET	20	20	-	4
SPOL2209-3	<i>Environmental and land policies</i> - Quentin MICHEL - Suppl : Sophie HANSON	30	-	-	3
GEOL0308-1	<i>Environmental geology related to renewable energy resources and mining</i> (english language) - N... - [1d FW]	20	10	[+]	3
GEOL0309-1	<i>Assessment of geological risk</i> (english language) - HansBalder HAVENITH - [6d FW]	30	15	[+]	5
GEOL0236-2	<i>Remote sensing and geological imaging</i> - COLLÉGIALITÉ, Eric PIRARD	30	30	-	5
Environmental management					
ENVT0031-2	<i>Society / Environment (epistemology, law, economics and social sciences towards the environment)</i> - François MELARD, Marc MORMONT	24	12	-	3
ENVT0030-2	<i>Managing the environment (transitional issues, instruments, case studies)</i> - JeanMarie HAUGLUSTAINE, François MELARD, Marc MORMONT, Catherine MOUGENOT, Pierre M. STASSART	24	12	-	3
ENVT0034-1	<i>GIS data management</i> - Philippe ANDRE, Jacques NICOLAS, AnneClaude ROMAIN, Bernard TYCHON	12	12	-	2
ENVT0013-3	<i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Jacques NICOLAS, Nathalie SEMAL	12	12	-	2
ENVT0848-3	<i>Impacts of human activities on ecosystems and including land use</i> - Célia JOAQUIMJUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX	20	10	-	2

Notice : Students who choose the two courses from the "Environmental Science and Management" module will have direct access to the 2nd year of the Masters in Environmental Science and Management, organised on the Arlon campus. Other students will also have access to the 2nd year of the Masters in Environmental Science and Management, on the condition that they take courses corresponding to these 12 credits in addition to the 60 credits taken during this study year.

[...] 1 or 2 course(s) from the courses' programme of the University of Liege

Two-year master program

Access conditions to the Master 120

(http://www.ulg.ac.be/cms/c_46066/master-en-sciences-geologiques-a-finalite-appfondie)

First Year

Compulsory courses

GEOL0210-1	<i>Fieldwork in foreign countries</i> - Frédéric BOULVAIN, Nathalie FAGEL, Frédéric HATERT, HansBalder HAVENITH, Emmanuelle JAVAUX, Edouard POTY, Jacqueline VANDER AUWERA - [10d FW]	-	-	[+]	6
GEOL0301-1	<i>Cartography and geomodelling (personal work)</i> - HansBalder HAVENITH - [15d FW]	10	30	[+]	10
GEOL0297-1	<i>Diagenesis and dynamics of sedimentary basins</i> - Frédéric BOULVAIN, AnneChristine DA SILVA	15	15	-	3
GEOL1022-2	<i>Evolution of the biosphere in the Precambrian</i> - Emmanuelle JAVAUX	20	10	-	3
GEOL0214-1	<i>Sedimentary deposits</i> - Edouard POTY - [2d FW]	15	15	[+]	4
GEOL1027-1	<i>Analytical mineralogy</i> - Frédéric HATERT	15	15	-	3
GEOL0209-1	<i>Isotopic geochemistry and geochronology</i> - Jacqueline VANDER AUWERA	20	-	-	3
GEOL0282-1	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	20	20	-	4
GEOL0304-1	<i>Introduction to neotectonics, seismology and physical volcanology</i> (english language) - HansBalder HAVENITH - [2d FW]	25	15	[+]	4

Optional courses

Choose, in agreement with the Board of Studies, several courses totalling 20 credits, amongst :

Organized during even years

GEOL0296-1	<i>Clays and environment</i> - Nathalie FAGEL (Even years)	15	15	-	4
GEOL0263-1	<i>Astrobiology</i> - Philippe CLAEYS, Véronique DEHANT, Moreno GALLEN, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE (Even years)	30	15	-	5
GEOL0302-1	<i>Volcanology</i> - Jacqueline VANDER AUWERA (Even years)	20	30	-	5
GEOL0223-1	<i>Complement of tectonics</i> - Olivier BOLLE (Even years)	15	15	-	4

Courses held in odd years :

GEOL0224-2	<i>Paleoclimatology</i> - Nathalie FAGEL - [1d FW] (Odd years)	15	15	[+]	4
GEOL1023-1	<i>Palynology - advanced course on Paleozoic spores</i> - Philippe STEEMANS (Odd years)	30	-	-	4
GEOL0218-1	<i>The principles and methods of evolution</i> - Edouard POTY (Odd years)	15	-	-	3
GEOL0220-1	<i>Cainozoic Stratigraphy</i> - Emile ROCHE (Odd years)	15	-	-	3
GEOL0298-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE, Philippe ORBAN (Odd years)	15	15	-	4
GEOL0294-1	<i>Paleoalterations in geological times</i> - Johan YANS - [1d FW] (Odd years)	12	12	[+]	4
GEOL0303-1	<i>Geomagnetism and environmental magnetism (english language)</i> - AnneChristine DA SILVA (Odd years)	15	5	-	3

Courses organized each year :

GEOL0099-1	<i>Phanerozoic biosphere evolution</i> - Edouard POTY - [2d FW]	20	-	[+]	4
GEOL0305-1	<i>Paleoecology</i> - Bernard MOTTEQUIN, Edouard POTY	20	-	-	3
GEOL0221-1	<i>Quaternary Palynology</i> - Mona COURTPICON, N...	15	15	-	4
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [1d FW]	15	8	[+]	3
SPAT0027-4	<i>Climate change and impacts</i> - Louis FRANÇOIS, Guy MUNHOVEN	15	15	-	4
CLIM0009-1	<i>Biogeochemical cycle modelling and global changes</i> - Louis FRANÇOIS	20	20	-	4
SPAT0054-1	<i>Astrophysics and astrochemistry</i> - Michaël DE BECKER	15	5	-	3
GEOL0255-2	<i>Geological oceanography</i> - Nathalie FAGEL - [1d FW]	20	20	[+]	4
GEOL0225-3	<i>Analytical Geochemistry</i> - Nathalie FAGEL	10	10	-	3
GEOL0256-1	<i>Geochemistry of sediments and interstitial water</i> - Nathalie FAGEL	15	15	-	4
GEOL0213-1	<i>Geodynamics</i> - N... - Suppl : JeanPaul LIÉGEOIS	15	-	-	3
CRIS0204-1	<i>Complement of crystallography</i> - Frédéric HATERT	15	-	-	3
GEOL0254-1	<i>Gravimetrics, magnetism, and their geological applications</i> - Michel EVERAERTS	15	15	-	4
GCIV0620-1	<i>Introduction to geotechnics</i> - Robert CHARLIER, JeanPol RADU - [1d FW]	30	20	[+]	5
GEOL0020-6	<i>Mineral resources</i> - Eric PIRARD	30	30	-	5
MINE0005-1	<i>Mine and Quarry Working</i> - Jacques TACK	20	-	-	3
GEOL0023-2	<i>Engineering geology (integrated project)</i> - Frédéric NGUYEN - [3d FW]	25	25	[+]	5
GEOL1021-1	<i>Introduction to geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]	30	30	[+]	6
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [2d FW]	20	20	[+]	5
GEOL0306-1	<i>Techniques for extracting non-conventional hydrocarbons</i> - Xavier LIMPENS	15	-	-	3
GEOL0307-1	<i>Geology of hydrocarbons</i> - Pierre CORNET	20	20	-	4
SPOL2209-3	<i>Environmental and land policies</i> - Quentin MICHEL - Suppl : Sophie HANSON	30	-	-	3
GEOL0308-1	<i>Environmental geology related to renewable energy resources and mining (english language)</i> - N... - [1d FW]	20	10	[+]	3
GEOL0309-1	<i>Assessment of geological risk (english language)</i> - HansBalder HAVENITH - [6d FW]	30	15	[+]	5
GEOL0236-2	<i>Remote sensing and geological imaging</i> - COLLÉGIALITÉ, Eric PIRARD	30	30	-	5
[...]	1 or 2 course(s) from the courses' programme of the University of Liege				

Second year

Compulsory courses

SMEM0022-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	27
GEOL0268-2	<i>Introduction to Research</i> - Annick ANCEAU	20	20	-	3

Research Focus

Compulsory course

SSTG0011-1	<i>Training</i> - Edouard POTY - [4w Internship]	-	-	[+]	10
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Optional courses

With the approval of the Board of Studies, choose courses totalling 20 ECTS :

- [...] Choose additional courses not previously followed and totaling from 11 to 20 ECTS from the courses programme of the ULg
- [...] Maximum 9 ECTS can be chosen in the courses' programme of another university