

First Year

Compulsory courses

GEOL0007-1	<i>Complement of geology - N...</i>	30	30	-	5
GEOL0021-7	<i>Geophysical exploration - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]</i>	30	30	[+]	5
GEOL0020-6	<i>Mineral resources - Eric PIRARD</i>	30	30	-	4
GEOL0249-2	<i>Personal project work in documentary research - Annick ANCEAU, Eric PIRARD</i>	5	25	-	3
GEOL0013-5	<i>Hydrogeology - Alain DASSARGUES - [1d FW]</i>	30	30	[+]	5
GCIV0603-2	<i>Geotechnics and infrastructure - Robert CHARLIER, JeanPol RADU - [1d FW]</i>	30	30	[+]	5
META0431-2	<i>Mineral processing (processes) - Stoyan GAYDARDZHIEV - [1d FW]</i>	30	30	[+]	3
CHIM0004-3	<i>Analytical chemistry - Gauthier EPPE</i>	30	30	-	5
GEOL0289-1	<i>Determinative mineralogy - Frédéric HATERT</i>	20	20	-	3
GEOL0290-1	<i>Introduction to sedimentary petrology - N... - [1d FW]</i>	30	-	[+]	3
GEOL0279-1	<i>Geological mapping - HansBalder HAVENITH - [4d FW]</i>	20	20	[+]	5
GEOL0277-1	<i>Groundwater quality and protection - Serge BROUYÈRE - [1d FW]</i>	20	20	[+]	3
GCIV0045-4	<i>Rock mechanics, tunnels, rock slopes, rock foundations - Robert CHARLIER, Séverine LEVASSEUR - [1d FW]</i>	30	30	[+]	5
GEOL0237-2	<i>Exploiting deposits, quarries and mines - N... - Suppl : Jacques TACK - [1d FW]</i>	20	10	[+]	2
BIOL0212-1	<i>Introduction to environmental microbiology - Monique CARNOL - Suppl : Olivier GUILLITTE</i>	30	-	-	2
GEOL1028-1	<i>Site investigation - Serge BROUYÈRE, Frédéric NGUYEN - [5d FW]</i>	10	10	[+]	2

Compulsory courses

CHIM0004-3	<i>Analytical chemistry - Gauthier EPPE</i>	30	30	-	5
GEOL0289-1	<i>Determinative mineralogy - Frédéric HATERT</i>	20	20	-	3
GEOL0006-1	<i>Rocks and sedimentary processes - Frédéric BOULVAIN - [1d FW]</i>	30	-	[+]	3
GEOL0279-1	<i>Geological mapping - HansBalder HAVENITH - [4d FW]</i>	20	20	[+]	5
GEOL0029-4	<i>Tectonics - Olivier BOLLE - [2d FW]</i>	15	15	[+]	3
GEOL0284-1	<i>Geology of Wallonia - Frédéric BOULVAIN - [6d FW]</i>	20	-	[+]	3
GCIV0184-4	<i>Building Materials - Luc COURARD - [1d FW]</i>	20	20	[+]	3
GCIV0185-3	<i>Numerical methods in Civil and Geological Engineering, Linear methods - Laurent DUCHENE, Michel PIROTON</i>	30	30	-	5
GEOL0097-1	<i>Geostatistics (english language) - Eric PIRARD</i>	20	20	-	3
GEOL0260-2	<i>Applied geophysics - Frédéric NGUYEN - [2d FW]</i>	20	20	[+]	5
GEOL0083-3	<i>Groundwater Modelling - Alain DASSARGUES</i>	30	30	-	5
GCIV0045-4	<i>Rock mechanics, tunnels, rock slopes, rock foundations - Robert CHARLIER, Séverine LEVASSEUR - [1d FW]</i>	30	30	[+]	5
GEOL0277-1	<i>Groundwater quality and protection - Serge BROUYÈRE - [1d FW]</i>	20	20	[+]	3
GEOL1028-1	<i>Site investigation - Serge BROUYÈRE, Frédéric NGUYEN - [5d FW]</i>	10	10	[+]	2
GEOL0237-2	<i>Exploiting deposits, quarries and mines - N... - Suppl : Jacques TACK - [1d FW]</i>	20	10	[+]	2
GCIV0090-2	<i>Introduction to free surface flows - Michel PIROTON</i>	15	10	-	2
GEOL0276-4	<i>Solid waste processing - Stoyan GAYDARDZHIEV - [1,5d FW]</i>	20	20	[+]	3

Notice : Students who have, in their BAC studies, already taken one or more compulsory courses in this Master's programme are obliged to replace them by other courses in this Masters programme or courses in the programme of the Applied Sciences Faculty or of the Sciences Faculty ; this choice must be approved by the President of the cycle's Jury.

Compulsory courses

MATH0006-1	<i>Introduction to numerical analysis - Quentin LOUVEAUX</i>	30	30	-	5
MECA0001-1	<i>Mechanics of materials - JeanPierre JASPART</i>	30	30	-	5
MECA0011-2	<i>Fluid Mechanics : Basics - Michel PIROTON</i>	20	30	-	4
GEOL0021-7	<i>Geophysical exploration - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]</i>	30	30	[+]	5
GEOL0020-6	<i>Mineral resources - Eric PIRARD</i>	30	30	-	5
GEOL0249-2	<i>Personal project work in documentary research - Annick ANCEAU, Eric PIRARD</i>	5	25	-	3
GCIV0603-2	<i>Geotechnics and infrastructure - Robert CHARLIER, JeanPol RADU - [1d FW]</i>	30	30	[+]	5
META0431-2	<i>Mineral processing (processes) - Stoyan GAYDARDZHIEV - [1d FW]</i>	30	30	[+]	5
GCIV0184-4	<i>Building Materials - Luc COURARD - [1d FW]</i>	20	20	[+]	3

GCIV0185-3	<i>Numerical methods in Civil and Geological Engineering, Linear methods</i> - Laurent DUCHENE, Michel PIROTON	30	30	-	5
GEOL0097-1	<i>Geostatistics (english language)</i> - Eric PIRARD	20	20	-	3
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [2d FW]	20	20	[+]	5
GEOL0023-4	<i>Engineering geology (integrated project)</i> - Frédéric NGUYEN - [2d FW]	10	30	[+]	4
GCIV0045-4	<i>Rock mechanics, tunnels, rock slopes, rock foundations</i> - Robert CHARLIER, Séverine LEVASSEUR - [1d FW]	30	30	[+]	5
GEOL0277-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE - [1d FW]	20	20	[+]	3
GEOL1028-1	<i>Site investigation</i> - Serge BROUYÈRE, Frédéric NGUYEN - [5d FW]	10	10	[+]	2
GEOL0237-2	<i>Exploiting deposits, quarries and mines</i> - N... - Suppl : Jacques TACK - [1d FW]	20	10	[+]	2
GEOL0276-4	<i>Solid waste processing</i> - Stoyan GAYDARDZHIEV - [1,5d FW]	20	20	[+]	3

Compulsory courses

MATH0006-1	<i>Introduction to numerical analysis</i> - Quentin LOUVEAUX	30	30	-	5
GEOL0021-7	<i>Geophysical exploration</i> - Lucien HALLEUX, Frédéric NGUYEN - [5d FW]	30	30	[+]	4
MECA0001-1	<i>Mechanics of materials</i> - JeanPierre JASPART	30	30	-	5
MECA0011-1	<i>Fluid Mechanics : Basics</i> - Michel PIROTON	30	30	-	4
GEOL0020-3	<i>Mineral resources</i> - Eric PIRARD	20	20	-	3
GEOL0249-2	<i>Personal project work in documentary research</i> - Annick ANCEAU, Eric PIRARD	5	25	-	3
GCIV0603-2	<i>Geotechnics and infrastructure</i> - Robert CHARLIER, JeanPol RADU - [1d FW]	30	30	[+]	5
META0431-2	<i>Mineral processing (processes)</i> - Stoyan GAYDARDZHIEV - [1d FW]	30	30	[+]	5
GCIV0184-4	<i>Building Materials</i> - Luc COURARD - [1d FW]	20	20	[+]	3
GCIV0185-3	<i>Numerical methods in Civil and Geological Engineering, Linear methods</i> - Laurent DUCHENE, Michel PIROTON	30	30	-	5
GEOL0097-1	<i>Geostatistics (english language)</i> - Eric PIRARD	20	20	-	3
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [2d FW]	20	20	[+]	5
GEOL0023-4	<i>Engineering geology (integrated project)</i> - Frédéric NGUYEN - [2d FW]	10	30	[+]	4
GCIV0045-4	<i>Rock mechanics, tunnels, rock slopes, rock foundations</i> - Robert CHARLIER, Séverine LEVASSEUR - [1d FW]	30	30	[+]	5
GEOL0277-1	<i>Groundwater quality and protection</i> - Serge BROUYÈRE - [1d FW]	20	20	[+]	5
GEOL0237-2	<i>Exploiting deposits, quarries and mines</i> - N... - Suppl : Jacques TACK - [1d FW]	20	10	[+]	2
GEOL0276-4	<i>Solid waste processing</i> - Stoyan GAYDARDZHIEV - [1,5d FW]	20	20	[+]	3

Second Year

Compulsory courses

GEOL0234-3	<i>Modelling and inversion in geophysics</i> - Frédéric NGUYEN	20	20	-	3
GEOL0236-2	<i>Remote sensing and geological imaging</i> - COLLÉGIALITÉ, Eric PIRARD	30	30	-	5
GEOL0008-1	<i>Origin and production of hydrocarbons</i> - Pierre CORNET, Xavier LIMPENS	30	-	-	2
ATFE0011-1	<i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ	-	-	-	20

Final year trip: at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional).

Compulsory courses

GEOL0234-3	<i>Modelling and inversion in geophysics</i> - Frédéric NGUYEN	20	20	-	3
GEOL0236-2	<i>Remote sensing and geological imaging</i> - COLLÉGIALITÉ, Eric PIRARD	30	30	-	5
GEOL0008-1	<i>Origin and production of hydrocarbons</i> - Pierre CORNET, Xavier LIMPENS	30	-	-	2
ATFE0011-1	<i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ	-	-	-	20

Final year trip: at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional).

Compulsory courses

GEOL0029-4	<i>Tectonics</i> - Olivier BOLLE - [2d FW]	15	15	[+]	3
GEOL0284-1	<i>Geology of Wallonia</i> - Frédéric BOULVAIN - [6d FW]	20	-	[+]	3
GCIV0184-4	<i>Building Materials</i> - Luc COURARD - [1d FW]	20	20	[+]	3
GCIV0185-3	<i>Numerical methods in Civil and Geological Engineering, Linear methods</i> - Laurent DUCHENE, Michel PIROTON	30	30	-	5
GEOL0097-1	<i>Geostatistics (english language)</i> - Eric PIRARD	20	20	-	3
GEOL0260-2	<i>Applied geophysics</i> - Frédéric NGUYEN - [2d FW]	20	20	[+]	5
GEOL0276-4	<i>Solid waste processing</i> - Stoyan GAYDARDZHIEV - [1,5d FW]	20	20	[+]	3

GEOL0310-1 *Integrated project in geological engineering* - COLLÉGIALITÉ, Frédéric NGUYEN - [4d 10 30 [+] 5
FW]

Compulsory courses

GCIV2058-1 *Environmental geotechnics (english language)* - Frédéric COLLIN - [1d FW] 20 20 [+] 3
GCIV0615-2 *Valorisation of industrial byproducts and waste in civil engineering* - Luc COURARD - 20 20 [+] 3
[1d FW]
GEOL0270-2 *Natural risk* - HansBalder HAVENITH - [1d FW] 15 15 [+] 3
GEOL0281-3 *Environmental aspects of industrial and mining activities* - Stoyan GAYDARDZHIEV - 25 25 [+] 4
[1,5d FW]
GEOL0282-1 *Sedimentary and environmental geochemistry* - Nathalie FAGEL 20 20 - 3
GEOL0310-1 *Integrated project in geological engineering* - COLLÉGIALITÉ, Frédéric NGUYEN - [4d 10 30 [+] 9
FW]
ASTG0017-1 *Placement* - COLLÉGIALITÉ - - - - 5

Compulsory courses

GEOL0234-3 *Modelling and inversion in geophysics* - Frédéric NGUYEN 20 20 - 3
GEOL0236-2 *Remote sensing and geological imaging* - COLLÉGIALITÉ, Eric PIRARD 30 30 - 5
ATFE0011-1 *Final Work (including an introduction to methodology and research)* - COLLÉGIALITÉ - - - 20
GEOL0008-1 *Origin and production of hydrocarbons* - Pierre CORNET, Xavier LIMPENS 30 - - 2

Final year trip: at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional).

Compulsory courses

GCIV2058-1 *Environmental geotechnics (english language)* - Frédéric COLLIN - [1d FW] 20 20 [+] 3
GEOL0083-3 *Groundwater Modelling* - Alain DASSARGUES 30 30 - 5
GCIV0615-2 *Valorisation of industrial byproducts and waste in civil engineering* - Luc COURARD - 20 20 [+] 3
[1d FW]
GEOL0270-2 *Natural risk* - HansBalder HAVENITH - [1d FW] 15 15 [+] 3
GEOL0281-3 *Environmental aspects of industrial and mining activities* - Stoyan GAYDARDZHIEV - 25 25 [+] 4
[1,5d FW]
GEOL0282-1 *Sedimentary and environmental geochemistry* - Nathalie FAGEL 20 20 - 3
GEOL0310-1 *Integrated project in geological engineering* - COLLÉGIALITÉ, Frédéric NGUYEN - [4d 10 30 [+] 5
FW]
ASTG0017-1 *Placement* - COLLÉGIALITÉ - - - - 4

Compulsory courses

GEOL0234-3 *Modelling and inversion in geophysics* - Frédéric NGUYEN 20 20 - 3
GEOL0236-2 *Remote sensing and geological imaging* - COLLÉGIALITÉ, Eric PIRARD 30 30 - 5
ATFE0011-1 *Final Work (including an introduction to methodology and research)* - COLLÉGIALITÉ - - - 20
GEOL0008-1 *Origin and production of hydrocarbons* - Pierre CORNET, Xavier LIMPENS 30 - - 2

Final year trip : at the beginning of the academic year, prior to the organisation of the courses, guided tours to companies, geological sites (optional)

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GEOL0310-1 *Integrated project in geological engineering* - COLLÉGIALITÉ, Frédéric NGUYEN - [4d 10 30 [+] 5
FW]
ASTG0017-1 *Placement* - COLLÉGIALITÉ - - - - 4